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4.1 Chassis Overview

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The S series fixed Ethernet switches integrate the access and transmission functions to provide reliable access/aggregation and high-quality transmission of services on enterprise networks. The switches are built on an integrated hardware platform, and their hardware system consists of the chassis, power module, fan module, and Switch Control Unit (SCU).

4.2 Naming Conventions

S5700 Series

Figure 4-1 S5700 switch naming conventions

NOTE

The device name in this figure is used as an example and does not represent a specific device.

The uplink and downlink ports mentioned in this document refer to the recommended usage of the ports, and do not indicate that the corresponding ports can be used only for the downlink or uplink.

Table 4-1 S5700 switch naming convention description

Identifier	Description
A	Product type (1 character) The value is fixed at S, indicating that the device is an S series switch.
B	Role on the network (1 character) • **6**: aggregation switch • **5**: high-end access switch • **3**: mid-range access switch
C	Market positioning (1 character) **7**: switch for enterprise networks
D	Product sub-series (2 characters) The left character indicates the generation, for example, S5720 and S5730. The right character distinguishes different products of the same generation.

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Identifier	Description
E	Industry identifier (0, 1, or 2 characters) ● By default, this field is left empty. ● **S**: channel distribution model ● **I**: The switch is an extended-temperature switch or an industrial switch. ● **R**: weak-current room model
F	Level type (1 character) ● **H**: high-level ● **S**: standard ● **L**: lightweight
G	Number of downlink ports of type 1 (1 or 2 characters)
H	Downlink port type 1 (1, 2, or 3 characters) ● **T**: GE electrical port ● **P**: GE electrical port, supporting PoE+ or PoE++ ● **LP**: GE electrical port, supporting PoE+ and low PoE power ● **FT**: FE electrical port and GE electrical port ● **ST**: GE optical port and GE electrical port or combo port ● **U**: GE electrical port, supporting PoE++ ● **LU**: GE electrical port, supporting PoE+ or PoE++, low PoE power ● **N**: 2.5GE electrical port ● **PN**: 2.5GE electrical port, supporting PoE+ ● **LPN**: 2.5GE electrical port, supporting PoE+ and low PoE power ● **UN**: 2.5GE electrical port, supporting PoE++ ● **UM**: 10GE MultiGE electrical port, supporting PoE++ ● **UTM**: 10GE MultiGE electrical port or GE electrical port, supporting PoE++ ● **XUM**: 10GE MultiGE electrical port supporting PoE++ or 10GE optical port ● **X**: 10GE optical port ● **S**: GE optical port ● **J**: 2.5GE optical port ● **Y**: 25GE optical port ● **HB**: GE, 2.5GE, 10GE, or 25GE hybrid optical-electrical port ● **HS**: The switch uses independent optical ports and PoE electrical ports to implement optical-electrical hybrid
I	Number of downlink ports of type 2 (0 or 1 character)

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Identifier	Description
J	Downlink port type 2 (0 or 1 character) • **X**: 10GE optical port • **S**: GE optical port • **J**: 2.5GE optical port • **PN**: 2.5GE electrical port, supporting PoE+
K	Number of uplink ports of type 1 (1 character)
L	Uplink port of type 1 (1 or 2 characters) • **S**: GE optical port • **J**: 2.5GE optical port • **ST**: GE optical port and GE electrical port or combo port • **PN**: 2.5GE electrical port, supporting PoE+ • **UM**: 10GE MultiGE electrical port, supporting PoE++ • **X**: 10GE optical port • **C**: 100GE optical port • **Q**: 40GE optical port • **Y**: 25GE optical port • **H**: GE hybrid optical-electrical port • **HT**: GE hybrid optical-electrical port and GE electrical port • **HJ**: 2.5GE hybrid optical-electrical port and PoE electrical port • **HX**: 10GE hybrid optical-electrical port and PoE electrical port
M	Number of uplink ports of type 2 (0 or 1 character)
N	Uplink port of type 2 (0, 1, or 2 characters) • **S**: GE optical port • **J**: 2.5GE optical port • **ST**: GE optical port and GE electrical port or combo port • **PN**: 2.5GE electrical port, supporting PoE+ • **UM**: 10GE MultiGE electrical port, supporting PoE++ • **X**: 10GE optical port • **C**: 100GE optical port • **Q**: 40GE optical port • **Y**: 25GE optical port • **H**: GE hybrid optical-electrical port • **HT**: GE hybrid optical-electrical port and GE electrical port • **HJ**: 2.5GE hybrid optical-electrical port and PoE electrical port • **HX**: 10GE hybrid optical-electrical port and PoE electrical port

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Identifier	Description
O	Function type (0, 1, or 2 characters) • Empty: The switch does not support pluggable cards. • **C** or **Z**: The switch supports pluggable cards. • **W**: The switch can be installed in a duct. • **E**: The switch supports independent stack ports. • **EZ**: The switch supports independent stack ports and pluggable cards. • **N**: The switch can be installed on a DIN rail. • **R**: The switch can be installed in a rack.
P	Special function type (0, 1, or 2 characters) • Empty: By default, this field is left empty. • **I**: The switch supports a wide temperature range. • **M**: The switches are applicable to video surveillance scenarios. • **B**: The switch adopts the back-to-front airflow design. • **Q**: The switch uses natural heat dissipation. • **RU**: The device is a remote unit. • **T**: The switch supports hardware trust module (HTM). • **C**: The switch supports corrosion protection. • **TQ**: The switch supports hardware trust module (HTM) and uses natural heat dissipation.
Q	Power module type (0, 1, or 2 characters) • Empty: The switch uses pluggable power modules. • **A** or **A1**: – The switch is sold with an AC power module. – The switch uses a built-in AC power module. – The switch uses a power adapter. • **D** or **D1**: – The switch is sold with a DC power module. – The switch uses a built-in DC power module.
R	Version type (0, 1, or 2 characters) • Empty: By default, this field is left empty. • **V2**: differentiates the models that are of the same series but use different software platforms. For example, the S5732-H and S5732-H-V2 use different software platforms. • **TV2**: The TV2 models use the same software platform as the V2 models and support hardware trust module (HTM).

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4.3 Port Numbering Conventions

Physical ports are numbered in the following way:

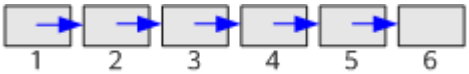
A single switch uses slot ID/subcard ID/port sequence number to identify physical ports.

- Slot ID: indicates the slot where the switch is located. The value is 1.
- Subcard ID: indicates the ID of a subcard. The default value is 0 for models without subcards.
- Port sequence number: indicates the sequence number of a port on the switch.

A stacked switch uses stack ID/subcard ID/port sequence number to identify physical ports.

- Stack ID: indicates the ID of a stacked switch. The value ranges from 1 to 9.
- Subcard ID: indicates the ID of a subcard. The default value is 0 for models without subcards.
- Port sequence number: indicates the sequence number of a port on the switch.

Table 4-2 Port numbering conventions

Port Numbering Diagram	Description
	There is one row of service ports on the device. These ports are numbered from left to right, starting from 1. Ports of different speeds are numbered separately. For example, the first GE port is numbered GE1/0/1, the first 10GE port is numbered 10GE1/0/1. Ports with the same rate are numbered in ascending order.

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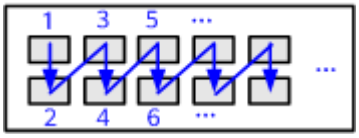
Port Numbering Diagram	Description
	There are two rows of service ports on the device. These ports are numbered from top to bottom and left to right, starting from 1. For example, the port on the top left is numbered 1/0/1. Ports of different speeds are numbered separately. For example, the first GE port is numbered GE1/0/1, the first 10GE port is numbered 10GE1/0/1, and the first 40GE port is numbered 40GE1/0/1. Ports with the same rate are numbered in ascending order.

4.4 S5731-L

4.4.1 S5731-L4P2HW-RUA

Overview

Table 4-3 Basic information about the S5731-L4P2HW-RUA

Item	Details
Description	S5731-L4P2HW-RUA (4*10/100/1000BASE-T ports, PoE++, 2*GE hybrid optical-electrical SFP ports, AC power, power adapter)
Part Number	98011766
Model	S5731-L4P2HW-RUA
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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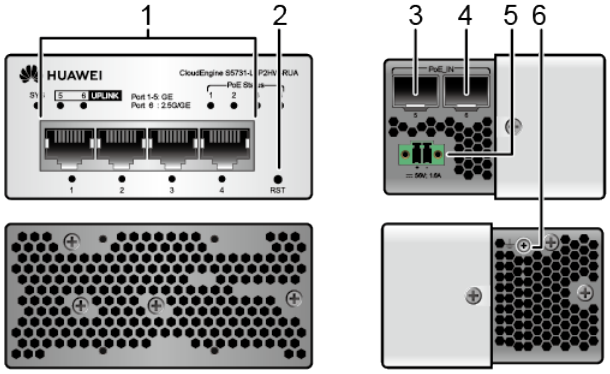
Components

Figure 4-2 S5731-L4P2HW-RUA appearance



1	Four 10/100/1000BASE-T PoE++ ports	2	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.
3	One GE hybrid optical-electrical port **NOTE** The port is an uplink port. The port can receive PoE power from a central switch through the second-generation hybrid cable. When using a hybrid cable to receive power, you must use the pigtails or jumpers and hybrid modules matching the second-generation hybrid cable.	4	One GE/2.5GE hybrid optical-electrical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions. The port can receive PoE power from a central switch through the second-generation hybrid cable. When using a hybrid cable to receive power, you must use the pigtails or jumpers and hybrid modules matching the second-generation hybrid cable.
5	Power adapter socket (phoenix connector) **NOTE** Use the power adapter (56 V, 1.6 A) delivered with the device.	6	Ground screw

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Ports

Table 4-4 Ports on the S5731-L4P2HW-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
GE hybrid optical-electrical port	SFP	A GE hybrid optical-electrical port can send and receive data at 1000 Mbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **Industrial optical modules (only optical modules with 1 Gbit/s transmission speed and transmission distances less than or equal to 10 km are supported)** • **GE SFP Hybrid Modules** • **Second-generation hybrid cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE hybrid optical-electrical port	SFP	A GE/2.5GE hybrid optical-electrical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **Industrial optical modules (only optical modules with 1 Gbit/s transmission speed and transmission distances less than or equal to 10 km are supported)** • **GE SFP Hybrid Modules** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **2.5GE eSFP Hybrid Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **Second-generation hybrid cable**

Indicators and Buttons

The S5731-L4P2HW-RUA has similar indicators to those on the S5731-L8P2HT-RUA. For details, see the S5731-L8P2HT-RUA.

Power Supply System

The remote unit supports the following power supply modes:

- Powered by an external power adapter

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- Powered by a central switch using hybrid cables

When different power supply modes are used at the same time, the system preferentially uses the power adapter for power supply. The cold backup mode is used between different power supply modes and cannot supply power to the remote unit at the same time. The two uplink ports have no default priority, and the connection time is used as the priority.

The remote unit can provide PoE power for external PDs. The PoE power supply capability varies according to the power supply mode.

Table 4-5 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)	Remark
Powered by an external power adapter	77 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	-
Powered by a central switch	Forcible power supply disabled (default): max 60 W	• 802.3af (15.4 W per port): 3 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	• If no PD is connected to the remote unit, the central switch only supplies power to the remote unit. The PoE standard of the central switch must be 802.3at at least. • If PDs are connected to the remote unit, the central switch supplies power to the remote unit and the connected PDs. It is recommended that the output PoE standard of the central switch be 802.3bt and the output power be 90 W. If the 802.3at standard is used, the available power of the PDs connected to the remote unit may be insufficient.
	Forcible power supply enabled: max 83 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	

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NOTICE

When the remote unit is powered by the central switch, the total power consumption of the remote unit and its connected PDs cannot exceed 71.3 W. If the power consumption exceeds 71.3 W, the remote unit and its connected PDs will be powered off and restarted.

When the remote unit is powered by the central switch, the maximum available PoE power in the preceding table can be provided only when the following conditions are met:

- When forcible power supply is disabled by default:
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
- When forcible power supply is enabled (using the **poe force-power port** command):
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
  - The central switch and the remote unit must be connected for a short distance (less than 8 m, with the line loss ignored). If the distance between the central switch and the remote unit is longer than 8 m and the PD is supplied with power based on the maximum power supply capability displayed on the central switch, the remote unit and the connected PD may be powered off and restarted.
  - The output voltage of the power module used by the central switch cannot be lower than 55.5 V.

The actual available PoE power provided by the remote unit is calculated based on the cabling distance between the central switch and the remote unit, the cabling distance between the remote unit and the connected PD, the maximum power consumption of the remote unit, the PoE output voltage of the central switch, and PoE class level output by the central switch.

If the power output of the remote unit is manually configured to comply with 802.3at or 802.3af, the PD connected to the remote unit will be power-cycled when the remote unit is reset due to a cause other than power-off.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-6 Technical specifications of the S5731-L4P2HW-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 45.0 mm x 90.0 mm x 75.0 mm (1.77 in. x 3.54 in. x 2.95 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 45.0 mm x 90.0 mm x 75.0 mm (1.77 in. x 3.54 in. x 2.95 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	92.0 mm x 340.0 mm x 222.0 mm (3.62 in. x 13.39 in. x 8.74 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.98 kg (2.16 lb)
Weight with packaging [kg(lb)]	1.36 kg (3 lb)
Typical power consumption [W]	6.67 W (device) 8.26 W (device + power adapter)
Typical heat dissipation [BTU/hour]	22.76 (device) 28.18 (device + power adapter)
Maximum power consumption [W]	• Without PoE: 7.00 W (device)/8.59 W (device + power adapter) • Full PoE load: 88.5 W (PoE: 77 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 23.88 (device)/29.31 (device + power adapter) • Full PoE load: 301.97
Static power consumption [W]	5.62 W
MTBF [years]	75.17 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0

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Item	Specification
Number of fans modules	0
Redundant power supply	Cold backup of hybrid optical-electrical ports and power adapters, cold backup between two hybrid optical-electrical ports, and preferential power supply by power adapters
Long-term operating temperature [°C(°F)]	–5°C to +40°C (23°F to 104°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of the device ranges from -5°C to +40°C (23°F to 104°F) when the following optical modules are used: - GE industrial optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	● Power adapter ● PoE_IN
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz PoE input: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz PoE input: 54–57 V DC
Maximum input current [A]	1.8 A
Memory	-
Flash memory	-
Console port	Not supported

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Item	Specification
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.2 S5731-L4T2S-RUA

Overview

Table 4-7 Basic information about the S5731-L4T2S-RUA

Item	Details
Description	S5731-L4T2S-RUA (4*10/100/1000BASE-T ports, 1*GE SFP port, 1*GE port with an SC connector, TX1310 nm/RX1490 nm, AC power, power adapter)
Part Number	98011768
Model	S5731-L4T2S-RUA
First supported version	V200R021C10SPC500 V600R022C10

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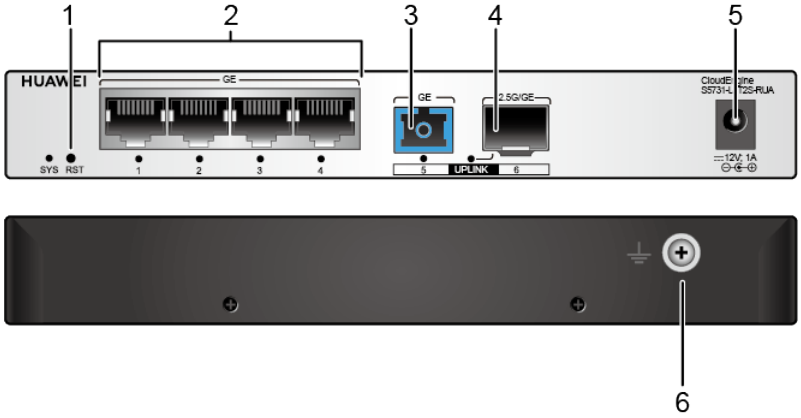
Item	Details
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-3 S5731-L4T2S-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Four 10/100/1000BASE-T ports
3	One GE optical port **NOTE** The port is an uplink port. The port has a built-in single-fiber bidirectional optical module by default and cannot be removed.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (12 V, 1 A) delivered with the device.	6	Ground screw

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Ports

Table 4-8 Ports on the S5731-L4T2S-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

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Port	Connector Type	Description	Available Components
GE optical port	SC	A GE optical port can send and receive data at 1000 Mbit/s. The port has a built-in single-fiber bidirectional optical module by default and cannot be removed. Specifications of the built-in optical module: The rate is GE, the center wavelength is TX1310 nm or RX1490 nm, the connector type is SC, and the maximum transmission distance is 10 km. Only the SFP-GE-LX-SM1490-BIDI (RX1310nm/TX1490nm) optical module can be used on the peer port.	-

Indicators and Buttons

The S5731-L4T2S-RUA has similar indicators to those on the S5731-L8P2HT-RUA except that the S5731-L4T2S-RUA does not have PoE indicators. For details, see the S5731-L8P2HT-RUA.

Power Supply System

The remote unit is powered by the power adapter delivered with the device.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-9 Technical specifications of the S5731-L4T2S-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 27.0 mm x 185.0 mm x 115.0 mm (1.06 in. x 7.28 in. x 4.53 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 27.0 mm x 185.0 mm x 115.0 mm (1.06 in. x 7.28 in. x 4.53 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 342.0 mm x 228.0 mm (3.23 in. x 13.46 in. x 8.98 in.)
Chassis height [U]	0.61 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.72 kg (1.59 lb)
Weight with packaging [kg(lb)]	1.02 kg (2.25 lb)
Typical power consumption [W]	4.88 W (device) 5.08 W (device + power adapter)
Typical heat dissipation [BTU/hour]	16.65 (device) 17.33 (device + power adapter)
Maximum power consumption [W]	5.06 W (device) 5.26 W (device + power adapter)
Maximum heat dissipation [BTU/hour]	17.27 (device) 19.75 (device + power adapter)
Static power consumption [W]	2.62 W
MTBF [years]	83.23 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 12 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	1 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV

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Item	Specification
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.3 S5731-L4T2ST-RUA

Overview

Table 4-10 Basic information about the S5731-L4T2ST-RUA

Item	Details
Description	S5731-L4T2ST-RUA (4*10/100/1000BASE-T ports, 1*GE SFP port, 1*10/100/1000BASE-T port, AC power, power adapter)
Part Number	98011770
Model	S5731-L4T2ST-RUA
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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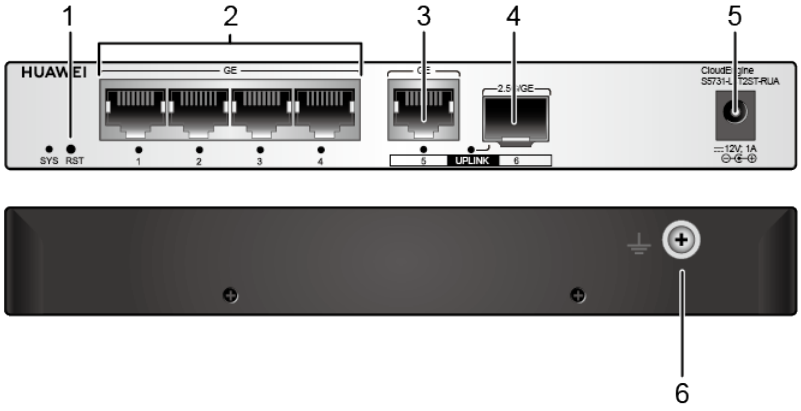
Components

Figure 4-4 S5731-L4T2ST-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Four 10/100/1000BASE-T ports
3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (12 V, 1 A) delivered with the device.	6	Ground screw

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Ports

Table 4-11 Ports on the S5731-L4T2ST-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

Indicators and Buttons

The S5731-L4T2ST-RUA has similar indicators to those on the S5731-L8P2HT-RUA except that the S5731-L4T2ST-RUA does not have PoE indicators. For details, see the S5731-L8P2HT-RUA.

Power Supply System

The remote unit is powered by the power adapter delivered with the device.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-12 Technical specifications of the S5731-L4T2ST-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 27.0 mm x 185.0 mm x 115.0 mm (1.06 in. x 7.28 in. x 4.53 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 27.0 mm x 185.0 mm x 115.0 mm (1.06 in. x 7.28 in. x 4.53 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 342.0 mm x 228.0 mm (3.23 in. x 13.46 in. x 8.98 in.)
Chassis height [U]	0.61 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.74 kg (1.63 lb)
Weight with packaging [kg(lb)]	1.02 kg (2.25 lb)
Typical power consumption [W]	4.88 W (device) 5.08 W (device + power adapter)
Typical heat dissipation [BTU/hour]	16.65 (device) 17.33 (device + power adapter)
Maximum power consumption [W]	5.06 W (device) 5.26 W (device + power adapter)
Maximum heat dissipation [BTU/hour]	17.27 (device) 17.95 (device + power adapter)
Static power consumption [W]	2.62 W
MTBF [years]	83.23 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 12 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	1 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV

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Item	Specification
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.4 S5731-L4P2S-RUA

Overview

Table 4-13 Basic information about the S5731-L4P2S-RUA

Item	Details
Description	S5731-L4P2S-RUA (4*10/100/1000BASE-T ports, PoE++, 1*GE SFP port, 1*GE port with an SC connector, TX1310 nm/RX1490 nm, AC power, power adapter)
Part Number	98011772
Model	S5731-L4P2S-RUA
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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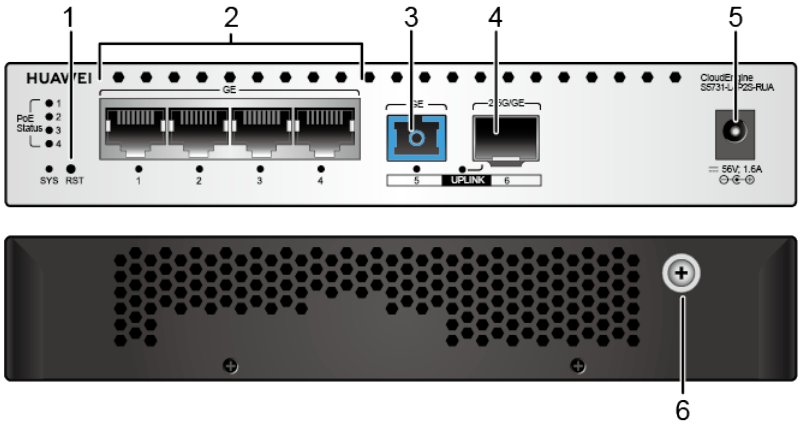
Components

Figure 4-5 S5731-L4P2S-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Four 10/100/1000BASE-T PoE++ ports
3	One GE optical port **NOTE** The port is an uplink port. The port has a built-in single-fiber bidirectional optical module by default and cannot be removed.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (56 V, 1.6 A) delivered with the device.	6	Ground screw

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Ports

Table 4-14 Ports on the S5731-L4P2S-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

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Port	Connector Type	Description	Available Components
GE optical port	SC	A GE optical port can send and receive data at 1000 Mbit/s. The port has a built-in single-fiber bidirectional optical module by default and cannot be removed. Specifications of the built-in optical module: The rate is GE, the center wavelength is TX1310 nm or RX1490 nm, the connector type is SC, and the maximum transmission distance is 10 km. Only the SFP-GE-LX-SM1490-BIDI (RX1310nm/TX1490nm) optical module can be used on the peer port.	-

Indicators and Buttons

The S5731-L4P2S-RUA has similar indicators to those on the S5731-L8P2HT-RUA. For details, see the S5731-L8P2HT-RUA.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

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Table 4-15 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	77 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1

NOTE

If the power output of the remote unit is manually configured to comply with 802.3at or 802.3af, the PD connected to the remote unit will be power-cycled when the remote unit is reset due to a cause other than power-off.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-16 Technical specifications of the S5731-L4P2S-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 350.0 mm x 222.0 mm (3.23 in. x 13.78 in. x 8.74 in.)
Chassis height [U]	0.86 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.12 kg (2.47 lb)
Weight with packaging [kg(lb)]	1.46 kg (3.22 lb)
Typical power consumption [W]	6.82 W (device) 8.30 W (device + power adapter)
Typical heat dissipation [BTU/hour]	23.27 (device) 28.32 (device + power adapter)

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Item	Specification
Maximum power consumption [W]	• Without PoE: 7.00 W (device)/8.48 W (device + power adapter) • Full PoE load: 88.0 W (PoE: 77 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 23.88 (device)/28.94 (device + power adapter) • Full PoE load: 300.27
Static power consumption [W]	4.88 W
MTBF [years]	74.48 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)

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Item	Specification
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	1.6 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.5 S5731-L4P2ST-RUA

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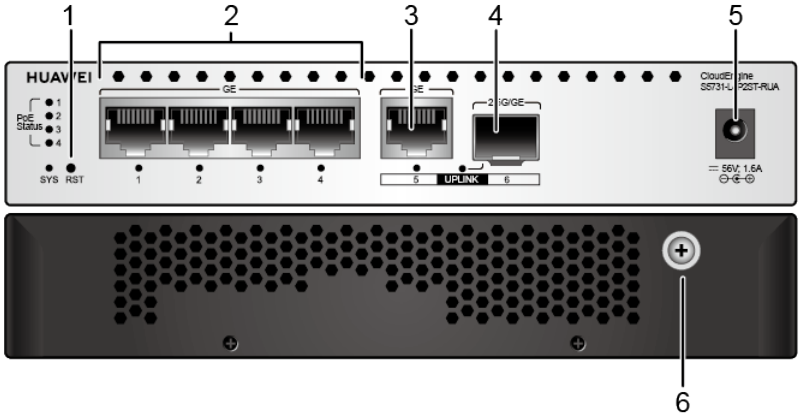
Overview

Table 4-17 Basic information about the S5731-L4P2ST-RUA

Item	Details
Description	S5731-L4P2ST-RUA (4*10/100/1000BASE-T ports, PoE++, 1*GE SFP port, 1*10/100/1000BASE-T port, AC power, power adapter)
Part Number	98011774
Model	S5731-L4P2ST-RUA
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-6 S5731-L4P2ST-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Four 10/100/1000BASE-T PoE++ ports

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3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (56 V, 1.6 A) delivered with the device.	6	Ground screw

Ports

Table 4-18 Ports on the S5731-L4P2ST-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

Indicators and Buttons

The S5731-L4P2ST-RUA has similar indicators to those on the S5731-L8P2HT-RUA. For details, see the S5731-L8P2HT-RUA.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

Table 4-19 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	77 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1

NOTE

If the power output of the remote unit is manually configured to comply with 802.3at or 802.3af, the PD connected to the remote unit will be power-cycled when the remote unit is reset due to a cause other than power-off.

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Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-20 Technical specifications of the S5731-L4P2ST-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 350.0 mm x 222.0 mm (3.23 in. x 13.78 in. x 8.74 in.)
Chassis height [U]	0.86 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.14 kg (2.51 lb)
Weight with packaging [kg(lb)]	1.46 kg (3.22 lb)
Typical power consumption [W]	6.80 W (device) 7.68 W (device + power adapter)
Typical heat dissipation [BTU/hour]	23.20 (device) 26.21 (device + power adapter)
Maximum power consumption [W]	• Without PoE: 7.00 W (device)/7.88 W (device + power adapter) • Full PoE load: 88.0 W (PoE: 77 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 23.88 (device)/26.89 (device + power adapter) • Full PoE load: 300.27
Static power consumption [W]	4.68 W
MTBF [years]	78.74 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30

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Item	Specification
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	1.6 A
Memory	-
Flash memory	-
Console port	Not supported

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Item	Specification
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.6 S5731-L4P2HT-RUA

Overview

Table 4-21 Basic information about the S5731-L4P2HT-RUA

Item	Details
Description	S5731-L4P2HT-RUA (4*10/100/1000BASE-T ports, PoE++, 1*GE hybrid optical-electrical SFP port, 1*10/100/1000BASE-T port, PoE input)
Part Number	98011776
Model	S5731-L4P2HT-RUA
First supported version	V200R021C10SPC500 V600R022C10

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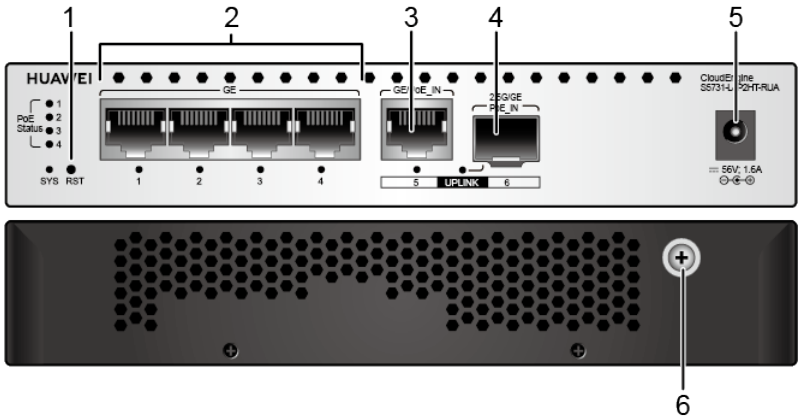
Item	Details
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-7 S5731-L4P2HT-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Four 10/100/1000BASE-T PoE++ ports
3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port. The port can receive PoE power from a central switch through an Ethernet cable or the first-generation hybrid cable.	4	One GE/2.5GE hybrid optical-electrical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions. The port can receive PoE power from a central switch through the second-generation hybrid cable. When using a hybrid cable to receive power, you must use the pigtails or jumpers and hybrid modules matching the second-generation hybrid cable.

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5	Power adapter socket **NOTE** The power adapter is not delivered with the device by default and can be purchased separately (part number: 02221024).	6	Ground screw

Ports

Table 4-22 Ports on the S5731-L4P2HT-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. It can receive PoE power from a central switch through an Ethernet cable.	• **Ethernet cable** • **First-generation hybrid cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE hybrid optical-electrical port	SFP	A GE/2.5GE hybrid optical-electrical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **GE SFP Hybrid Modules** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **2.5GE eSFP Hybrid Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **First-generation hybrid cable** • **Second-generation hybrid cable**

Indicators and Buttons

The S5731-L4P2HT-RUA has similar indicators to those on the S5731-L8P2HT-RUA. For details, see the S5731-L8P2HT-RUA.

Power Supply System

The remote unit supports the following power supply modes:

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- Powered by an external power adapter (separately purchased)
- Powered by a central switch using an Ethernet cable of Cat5e or higher category (occupies the uplink electrical port, which is used for both PoE power input and data transmission)
- Powered by a central switch using the second-generation hybrid cable (occupies the uplink hybrid optical-electrical port, which is used for both PoE power input and data transmission)
- Powered by a central switch using the first-generation hybrid cable (occupies the uplink electrical port and uplink hybrid optical-electrical port. The uplink electrical port is used for PoE power input, and the uplink hybrid optical-electrical port is used for data transmission.)

When different power supply modes are used at the same time, the system preferentially uses the power adapter for power supply. The cold backup mode is used between different power supply modes and cannot supply power to the remote unit at the same time. The two uplink ports have no default priority, and the connection time is used as the priority.

The remote unit can provide PoE power for external PDs. The PoE power supply capability varies according to the power supply mode.

Table 4-23 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)	Remark
Powered by an external power adapter	77 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	-

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Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)	Remark
Powered by a central switch	Forcible power supply disabled (default): max 60 W	• 802.3af (15.4 W per port): 3 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	• If no PD is connected to the remote unit, the central switch only supplies power to the remote unit. The PoE standard of the central switch must be 802.3at at least. • If PDs are connected to the remote unit, the central switch supplies power to the remote unit and the connected PDs. It is recommended that the output PoE standard of the central switch be 802.3bt and the output power be 90 W. If the 802.3at standard is used, the available power of the PDs connected to the remote unit may be insufficient.
	Forcible power supply enabled: max 83 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	

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NOTICE

When the remote unit is powered by the central switch, the total power consumption of the remote unit and its connected PDs cannot exceed 71.3 W. If the power consumption exceeds 71.3 W, the remote unit and its connected PDs will be powered off and restarted.

When the remote unit is powered by the central switch, the maximum available PoE power in the preceding table can be provided only when the following conditions are met:

- When forcible power supply is disabled by default:
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
- When forcible power supply is enabled (using the **poe force-power port** command):
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
  - The central switch and the remote unit must be connected for a short distance (less than 8 m, with the line loss ignored). If the distance between the central switch and the remote unit is longer than 8 m and the PD is supplied with power based on the maximum power supply capability displayed on the central switch, the remote unit and the connected PD may be powered off and restarted.
  - The output voltage of the power module used by the central switch cannot be lower than 55.5 V.

The actual available PoE power provided by the remote unit is calculated based on the cabling distance between the central switch and the remote unit, the cabling distance between the remote unit and the connected PD, the maximum power consumption of the remote unit, the PoE output voltage of the central switch, and PoE class level output by the central switch.

If the power output of the remote unit is manually configured to comply with 802.3at or 802.3af, the PD connected to the remote unit will be power-cycled when the remote unit is reset due to a cause other than power-off.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-24 Technical specifications of the S5731-L4P2HT-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 270.0 mm x 178.0 mm (3.23 in. x 10.63 in. x 7.01 in.)
Chassis height [U]	0.86 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.60 kg (1.32 lb)
Weight with packaging [kg(lb)]	0.81 kg (1.79 lb)
Typical power consumption [W]	6.82 W (device) 8.30 W (device + power adapter)
Typical heat dissipation [BTU/hour]	23.27 (device) 28.32 (device + power adapter)
Maximum power consumption [W]	• Without PoE: 7.00 W (device)/8.48 W (device + power adapter) • Full PoE load: 88.0 W (PoE: 77 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 23.88 (device)/28.94 (device + power adapter) • Full PoE load: 300.265
Static power consumption [W]	4.88 W
MTBF [years]	73.98 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0

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Item	Specification
Number of fans modules	0
Redundant power supply	Cold backup of uplink hybrid optical-electrical ports or electrical ports and power adapters, cold backup of uplink hybrid optical-electrical ports and electrical ports, and preferential power supply by power adapters (By default, no power adapter is provided, and the power adapter 02221024 can be used.)
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	• Power adapter • PoE_IN
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz PoE input: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz PoE input: 54–57 V DC
Maximum input current [A]	1.8 A
Memory	-

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Item	Specification
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.7 S5731-L8T2ST-RUA

Overview

Table 4-25 Basic information about the S5731-L8T2ST-RUA

Item	Details
Description	S5731-L8T2ST-RUA (8*10/100/1000BASE-T ports, 1*GE SFP port, 1*10/100/1000BASE-T port, AC power, power adapter)
Part Number	98011778
Model	S5731-L8T2ST-RUA
First supported version	V200R021C10SPC500 V600R022C10

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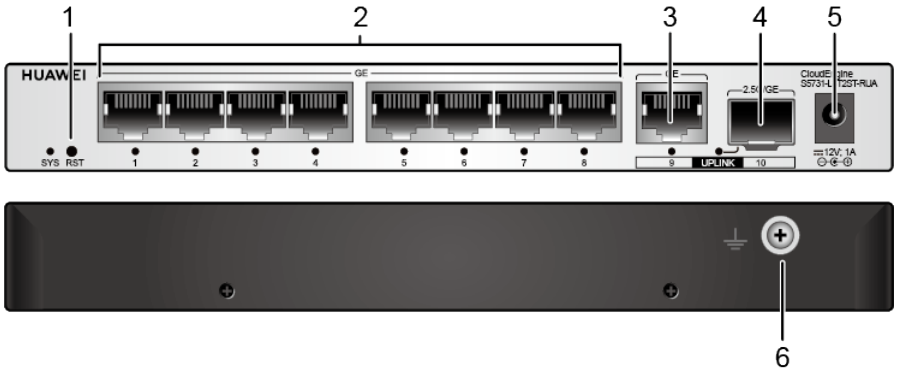
Item	Details
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-8 S5731-L8T2ST-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Eight 10/100/1000BASE-T ports
3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (12 V, 1 A) delivered with the device.	6	Ground screw

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Ports

Table 4-26 Ports on the S5731-L8T2ST-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

Indicators and Buttons

The S5731-L8T2ST-RUA has similar indicators to those on the S5731-L8P2HT-RUA except that the S5731-L8T2ST-RUA does not have PoE indicators. For details, see the S5731-L8P2HT-RUA.

Power Supply System

The remote unit is powered by the power adapter delivered with the device.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-27 Technical specifications of the S5731-L8T2ST-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 27.0 mm x 210.0 mm x 130.0 mm (1.06 in. x 8.27 in. x 5.12 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 27.0 mm x 210.0 mm x 130.0 mm (1.06 in. x 8.27 in. x 5.12 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 347.0 mm x 242.0 mm (3.23 in. x 13.66 in. x 9.53 in.)
Chassis height [U]	0.61 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.84 kg (1.85 lb)
Weight with packaging [kg(lb)]	1.14 kg (2.51 lb)
Typical power consumption [W]	7.73 W (device) 7.98 W (device + power adapter)
Typical heat dissipation [BTU/hour]	26.38 (device) 27.23 (device + power adapter)
Maximum power consumption [W]	7.86 W (device) 8.11 W (device + power adapter)
Maximum heat dissipation [BTU/hour]	26.82 (device) 27.67 (device +power adapter)
Static power consumption [W]	3.23 W
MTBF [years]	84.79 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 12 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	1 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV

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Item	Specification
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.8 S5731-L8P2ST-RUA

Overview

Table 4-28 Basic information about the S5731-L8P2ST-RUA

Item	Details
Description	S5731-L8P2ST-RUA (8*10/100/1000BASE-T ports, PoE+, 1*GE SFP port, 1*10/100/1000BASE-T port, AC power, power adapter)
Part Number	98011780
Model	S5731-L8P2ST-RUA
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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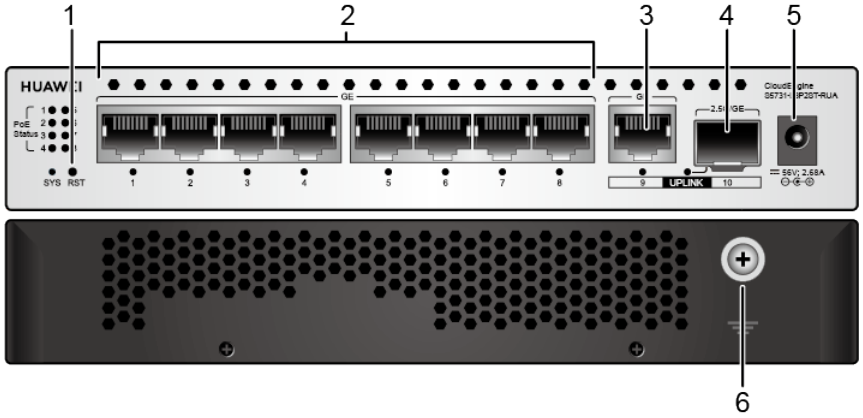
Components

Figure 4-9 S5731-L8P2ST-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Eight 10/100/1000BASE-T PoE+ ports
3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (56 V, 2.68 A) delivered with the device.	6	Ground screw

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Ports

Table 4-29 Ports on the S5731-L8P2ST-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	A 10/100/1000BASE-T PoE+ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

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Indicators and Buttons

The S5731-L8P2ST-RUA has similar indicators to those on the S5731-L8P2HT-RUA. For details, see the S5731-L8P2HT-RUA.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

Table 4-30 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	131 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-31 Technical specifications of the S5731-L8P2ST-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 38.0 mm x 210.0 mm x 130.0 mm (1.5 in. x 8.27 in. x 5.12 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 38.0 mm x 210.0 mm x 130.0 mm (1.5 in. x 8.27 in. x 5.12 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 375.0 mm x 242.0 mm (3.23 in. x 14.76 in. x 9.53 in.)
Chassis height [U]	0.86 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.59 kg (3.51 lb)
Weight with packaging [kg(lb)]	1.98 kg (4.37 lb)
Typical power consumption [W]	9.69 W (device) 11.36 W (device + power adapter)

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Item	Specification
Typical heat dissipation [BTU/hour]	33.06 (device) 38.76 (device + power adapter)
Maximum power consumption [W]	• Without PoE: 10.0 W (device)/11.67 W (device + power adapter) • Full PoE load: 146.0 W (PoE: 131 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 34.12 (device)/39.82 (device + power adapter) • Full PoE load: 498.17
Static power consumption [W]	6.48 W
MTBF [years]	75.78 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)

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Item	Specification
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	2.68 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.9 S5731-L8P2HT-RUA

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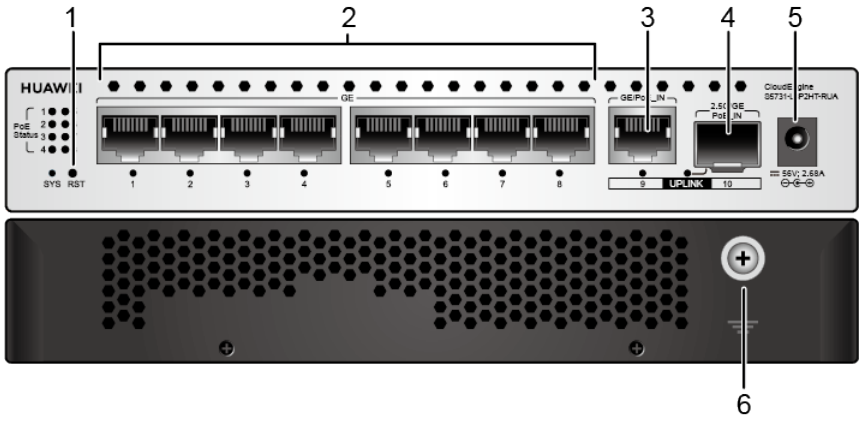
Overview

Table 4-32 Basic information about the S5731-L8P2HT-RUA

Item	Details
Description	S5731-L8P2HT-RUA (8*10/100/1000BASE-T ports, PoE+, 1*GE hybrid optical-electrical SFP port, 1*10/100/1000BASE-T port, PoE input)
Part Number	98011782
Model	S5731-L8P2HT-RUA
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-10 S5731-L8P2HT-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Eight 10/100/1000BASE-T PoE+ ports

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3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port. The port can receive PoE power from a central switch through an Ethernet cable or the first-generation hybrid cable.	4	One GE/2.5GE hybrid optical-electrical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions. The port can receive PoE power from a central switch through the second-generation hybrid cable. When using a hybrid cable to receive power, you must use the pigtails or jumpers and hybrid modules matching the second-generation hybrid cable.
5	Power adapter socket **NOTE** The power adapter is not delivered with the device by default and can be purchased separately (part number: 02221024).	6	Ground screw

Ports

Table 4-33 Ports on the S5731-L8P2HT-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	A 10/100/1000BASE-T PoE+ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. It can receive PoE power from a central switch through an Ethernet cable.	• **Ethernet cable** • **First-generation hybrid cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE hybrid optical-electrical port	SFP	A GE/2.5GE hybrid optical-electrical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **GE SFP Hybrid Modules** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **2.5GE eSFP Hybrid Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **First-generation hybrid cable** • **Second-generation hybrid cable**

Indicators and Buttons

Figure 4-11 Indicators on the S5731-L8P2HT-RUA

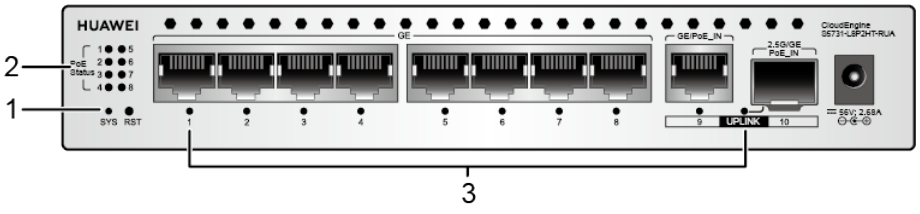

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Table 4-34 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Slow blinking	The system is running normally.
2	PoE STATUS	PoE status indicator	-	Off	The port is connected to a non-PD device or is not supplying PoE power.
			Yellow	Steady on	The port is supplying power to the connected PD.
			Yellow	Blinking	The port is connected to a non-standard PD that can be powered by the port. You can change the power supply mode of the port to force-power so that it can provide power to the PD. The PoE power of the switch is insufficient, and the port cannot provide power to the PD.
3	1-10	Service port indicator	-	Off	The port is not connected.
			Green	Steady on	The port is connected.
			Green	Blinking	The port is sending or receiving data.

Power Supply System

The remote unit supports the following power supply modes:

- Powered by an external power adapter (separately purchased)
- Powered by a central switch using an Ethernet cable of Cat5e or higher category (occupies the uplink electrical port, which is used for both PoE power input and data transmission)
- Powered by a central switch using the second-generation hybrid cable (occupies the uplink hybrid optical-electrical port, which is used for both PoE power input and data transmission)
- Powered by a central switch using the first-generation hybrid cable (occupies the uplink electrical port and uplink hybrid optical-electrical port. The uplink electrical port is used for PoE power input, and the uplink hybrid optical-electrical port is used for data transmission.)

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When different power supply modes are used at the same time, the system preferentially uses the power adapter for power supply. The cold backup mode is used between different power supply modes and cannot supply power to the remote unit at the same time. The two uplink ports have no default priority, and the connection time is used as the priority.

The remote unit can provide PoE power for external PDs. The PoE power supply capability varies according to the power supply mode.

Table 4-35 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)	Remark
Powered by an external power adapter	131 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4	-
Powered by a central switch	Forcible power supply disabled (default): max 57 W	• 802.3af (15.4 W per port): 3 • 802.3at (30 W per port): 1	• If no PD is connected to the remote unit, the central switch only supplies power to the remote unit. The PoE standard of the central switch must be 802.3at at least. • If PDs are connected to the remote unit, the central switch supplies power to the remote unit and the connected PDs. It is recommended that the output PoE standard of the central switch be 802.3bt and the output power be 90 W. If the 802.3at standard is used, the available power of the PDs connected to the remote unit may be insufficient.
	Enable forcible power supply: max 80 W	• 802.3af (15.4 W per port): 5 • 802.3at (30 W per port): 2	

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NOTICE

When the remote unit is powered by the central switch, the total power consumption of the remote unit and its connected PDs cannot exceed 71.3 W. If the power consumption exceeds 71.3 W, the remote unit and its connected PDs will be powered off and restarted.

When the remote unit is powered by the central switch, the maximum available PoE power in the preceding table can be provided only when the following conditions are met:

- When forcible power supply is disabled by default:
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
- When forcible power supply is enabled (using the **poe force-power port** command):
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
  - The central switch and the remote unit must be connected for a short distance (less than 8 m, with the line loss ignored). If the distance between the central switch and the remote unit is longer than 8 m and the PD is supplied with power based on the maximum power supply capability displayed on the central switch, the remote unit and the connected PD may be powered off and restarted.
  - The output voltage of the power module used by the central switch cannot be lower than 55.5 V.

The actual available PoE power provided by the remote unit is calculated based on the cabling distance between the central switch and the remote unit, the cabling distance between the remote unit and the connected PD, the maximum power consumption of the remote unit, the PoE output voltage of the central switch, and PoE class level output by the central switch.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-36 Technical specifications of the S5731-L8P2HT-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 38.0 mm x 210.0 mm x 130.0 mm (1.5 in. x 8.27 in. x 5.12 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 38.0 mm x 210.0 mm x 130.0 mm (1.5 in. x 8.27 in. x 5.12 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 275.0 mm x 196.0 mm (3.23 in. x 10.83 in. x 7.72 in.)
Chassis height [U]	0.86 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.75 kg (1.65 lb)
Weight with packaging [kg(lb)]	0.94 kg (2.07 lb)
Typical power consumption [W]	8.82 W (device) 10.82 W (device + power adapter)
Typical heat dissipation [BTU/hour]	30.09 (device) 36.92 (device + power adapter)
Maximum power consumption [W]	• Without PoE: 9.60 W (device)/11.60 W (device + power adapter) • Full PoE load: 146 W (PoE: 131 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 32.76 (device)/39.58 (device + power adapter) • Full PoE load: 498.17
Static power consumption [W]	5.6 W
MTBF [years]	71.36 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0

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Item	Specification
Number of fans modules	0
Redundant power supply	Cold backup of uplink hybrid optical-electrical ports or electrical ports and power adapters, cold backup of uplink hybrid optical-electrical ports and electrical ports, and preferential power supply by power adapters (By default, no power adapter is provided, and the power adapter 02221024 can be used.)
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	• Power adapter • PoE_IN
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz PoE input: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz PoE input: 54–57 V DC
Maximum input current [A]	2.68 A
Memory	-

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Item	Specification
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.10 S5731-L8LP2ST-RUA

Overview

Table 4-37 Basic information about the S5731-L8LP2ST-RUA

Item	Details
Description	S5731-L8LP2ST-RUA (8*10/100/1000BASE-T ports, PoE+, 1*GE SFP port, 1*10/100/1000BASE-T port, AC power, power adapter)
Part Number	98012186
Model	S5731-L8LP2ST-RUA
First supported version	V200R022C10 V600R022C10

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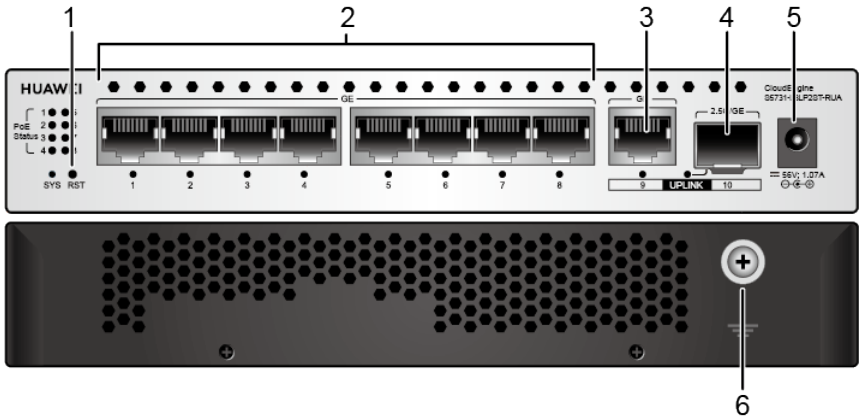
Item	Details
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-12 S5731-L8LP2ST-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Eight 10/100/1000BASE-T PoE+ ports
3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (56 V, 1.07 A) delivered with the device.	6	Ground screw

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Ports

Table 4-38 Ports on the S5731-L8LP2ST-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	A 10/100/1000BASE-T PoE+ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

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Indicators and Buttons

The S5731-L8LP2ST-RUA has similar indicators to those on the S5731-L8P2HT-RUA. For details, see the S5731-L8P2HT-RUA.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

Table 4-39 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	45 W	• 802.3af (15.4 W per port): 2 • 802.3at (30 W per port): 1

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-40 Technical specifications of the S5731-L8LP2ST-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 38.0 mm x 210.0 mm x 130.0 mm (1.5 in. x 8.27 in. x 5.12 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 38.0 mm x 210.0 mm x 130.0 mm (1.5 in. x 8.27 in. x 5.12 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	76.0 mm x 357.0 mm x 242.0 mm (2.99 in. x 14.06 in. x 9.53 in.)
Chassis height [U]	0.86 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.06 kg (2.34 lb)
Weight with packaging [kg(lb)]	1.36 kg (3 lb)
Typical power consumption [W]	8.6 W (device) 9.44 W (device + power adapter)

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Item	Specification
Typical heat dissipation [BTU/hour]	29.34 (device) 32.23 (device + power adapter)
Maximum power consumption [W]	• Without PoE: 9.0 W (device)/9.66 W (device + power adapter) • Full PoE load: 59.6 W (PoE: 45 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 30.71 (device)/32.96 (device + power adapter) • Full PoE load: 203.36
Static power consumption [W]	4.1 W
MTBF [years]	75.78 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)

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Item	Specification
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 56 V DC
Input voltage range [V]	Power adapter input: 90 V AC to 290 V AC; 45 Hz to 65 Hz
Maximum input current [A]	1.07 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.11 S5731-L16P2SR-RUA

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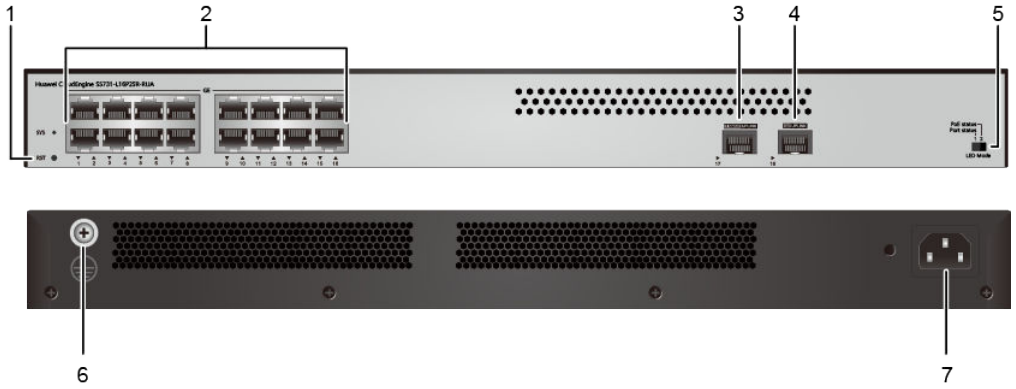
Overview

Table 4-41 Basic information about the S5731-L16P2SR-RUA

Item	Details
Description	S5731-L16P2SR-RUA(16*10/100/1000BASE-T ports, 2*GE SFP ports, PoE+, Fanless, AC power)
Part Number	98012157
Model	S5731-L16P2SR-RUA
First supported version	V200R022C10 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-13 S5731-L16P2SR-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Sixteen 10/100/1000BASE-T PoE+ ports

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3	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.	4	One GE optical port **NOTE** The port is an uplink port.
5	Port indicator status switch **NOTE** Port status: The port indicator indicates the data connection status of the port. PoE status: The port indicator indicates the PoE status of the port.	6	Ground screw
7	AC socket **NOTE** Use the power cable delivered with the device.	-	-

Ports

Table 4-42 Ports on the S5731-L16P2SR-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
GE optical port	SFP	A GE optical port can send and receive data at 1000 Mbit/s.	**GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)**

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Port	Connector Type	Description	Available Components
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

Indicators and Buttons

Table 4-43 Description of indicators on the device

Name	Color	Status	Description
System status indicator	-	Off	The system is not running.
	Green	Fast blinking	The system is starting.
	Green	Slow blinking	The system is running normally.
Port indicator (service status)	-	Off	The port is not connected.
	Green	Steady on	The port is connected.
	Green	Blinking	The port is sending or receiving data.
Port indicator (PoE status)	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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Name	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port.

Power Supply System

The remote unit has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-44 Technical specifications of the S5731-L16P2SR-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 260.0 mm (1.72 in. x 17.40 in. x 10.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 267.0 mm (1.72 in. x 17.40 in. x 10.51 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 555.0 mm x 400.0 mm (3.54 in. x 21.85 in. x 15.75 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.01 kg (6.64 lb)
Weight with packaging [kg(lb)]	3.65 kg (8.05 lb)
Typical power consumption [W]	16.42 W
Typical heat dissipation [BTU/hour]	56.03 BTU/hour
Maximum power consumption [W]	• Without PoE: 16.7 W • Full PoE load: 160.45 W (PoE: 125 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• Without PoE: 56.98 • Full PoE load: 547.47
Static power consumption [W]	9.28 W
MTBF [years]	78.68 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	-
Flash memory	-

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Item	Specification
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.5 S5731S-L

4.5.1 S5731S-L4P2HW-RUA

Overview

Table 4-45 Basic information about the S5731S-L4P2HW-RUA

Item	Details
Description	S5731S-L4P2HW-RUA (4*10/100/1000BASE-T ports, PoE++, 2*GE hybrid optical-electrical SFP ports, AC power, power adapter)
Part Number	98011767
Model	S5731S-L4P2HW-RUA

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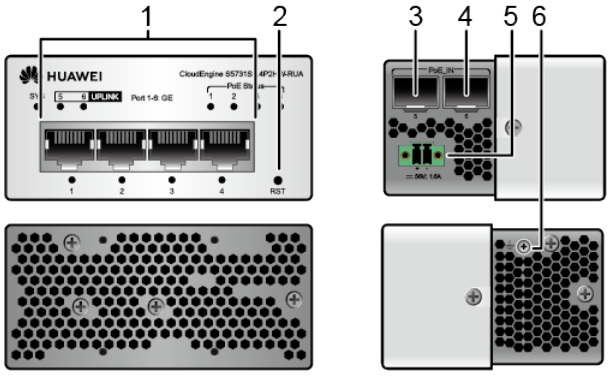
Item	Details
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-14 S5731S-L4P2HW-RUA appearance



1	Four 10/100/1000BASE-T PoE++ ports	2	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.
3	One GE hybrid optical-electrical port **NOTE** The port is an uplink port. The port can receive PoE power from a central switch through the second-generation hybrid cable. When using a hybrid cable to receive power, you must use the pigtails or jumpers and hybrid modules matching the second-generation hybrid cable.	4	One GE/2.5GE hybrid optical-electrical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions. The port can receive PoE power from a central switch through the second-generation hybrid cable. When using a hybrid cable to receive power, you must use the pigtails or jumpers and hybrid modules matching the second-generation hybrid cable.

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5	Power adapter socket (phoenix connector) **NOTE** Use the power adapter (56 V, 1.6 A) delivered with the device.	6	Ground screw

Ports

Table 4-46 Ports on the S5731S-L4P2HW-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
GE hybrid optical-electrical port	SFP	A GE hybrid optical-electrical port can send and receive data at 1000 Mbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **Industrial optical modules (only optical modules with 1 Gbit/s transmission speed and transmission distances less than or equal to 10 km are supported)** • **GE SFP Hybrid Modules** • **Second-generation hybrid cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE hybrid optical-electrical port	SFP	A GE/2.5GE hybrid optical-electrical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **Industrial optical modules (only optical modules with 1 Gbit/s transmission speed and transmission distances less than or equal to 10 km are supported)** • **GE SFP Hybrid Modules** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **2.5GE eSFP Hybrid Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **Second-generation hybrid cable**

Indicators and Buttons

The S5731S-L4P2HW-RUA has similar indicators to those on the S5731S-L8P2HT-RUA. For details, see the S5731S-L8P2HT-RUA.

Power Supply System

The remote unit supports the following power supply modes:

- Powered by an external power adapter

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- Powered by a central switch using hybrid cables

When different power supply modes are used at the same time, the system preferentially uses the power adapter for power supply. The cold backup mode is used between different power supply modes and cannot supply power to the remote unit at the same time. The two uplink ports have no default priority, and the connection time is used as the priority.

The remote unit can provide PoE power for external PDs. The PoE power supply capability varies according to the power supply mode.

Table 4-47 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)	Remark
Powered by an external power adapter	77 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	-
Powered by a central switch	Forcible power supply disabled (default): max 60 W	• 802.3af (15.4 W per port): 3 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	• If no PD is connected to the remote unit, the central switch only supplies power to the remote unit. The PoE standard of the central switch must be 802.3at at least. • If PDs are connected to the remote unit, the central switch supplies power to the remote unit and the connected PDs. It is recommended that the output PoE standard of the central switch be 802.3bt and the output power be 90 W. If the 802.3at standard is used, the available power of the PDs connected to the remote unit may be insufficient.
	Forcible power supply enabled: max 83 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	

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NOTICE

When the remote unit is powered by the central switch, the total power consumption of the remote unit and its connected PDs cannot exceed 71.3 W. If the power consumption exceeds 71.3 W, the remote unit and its connected PDs will be powered off and restarted.

When the remote unit is powered by the central switch, the maximum available PoE power in the preceding table can be provided only when the following conditions are met:

- When forcible power supply is disabled by default:
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
- When forcible power supply is enabled (using the **poe force-power port** command):
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
  - The central switch and the remote unit must be connected for a short distance (less than 8 m, with the line loss ignored). If the distance between the central switch and the remote unit is longer than 8 m and the PD is supplied with power based on the maximum power supply capability displayed on the central switch, the remote unit and the connected PD may be powered off and restarted.
  - The output voltage of the power module used by the central switch cannot be lower than 55.5 V.

The actual available PoE power provided by the remote unit is calculated based on the cabling distance between the central switch and the remote unit, the cabling distance between the remote unit and the connected PD, the maximum power consumption of the remote unit, the PoE output voltage of the central switch, and PoE class level output by the central switch.

If the power output of the remote unit is manually configured to comply with 802.3at or 802.3af, the PD connected to the remote unit will be power-cycled when the remote unit is reset due to a cause other than power-off.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-48 Technical specifications of the S5731S-L4P2HW-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 45.0 mm x 90.0 mm x 75.0 mm (1.77 in. x 3.54 in. x 2.95 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 45.0 mm x 90.0 mm x 75.0 mm (1.77 in. x 3.54 in. x 2.95 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	92.0 mm x 340.0 mm x 222.0 mm (3.62 in. x 13.39 in. x 8.74 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.98 kg (2.16 lb)
Weight with packaging [kg(lb)]	1.36 kg (3 lb)
Typical power consumption [W]	6.67 W (device) 8.26 W (device + power adapter)
Typical heat dissipation [BTU/hour]	22.76 (device) 28.18 (device + power adapter)
Maximum power consumption [W]	• Without PoE: 7.00 W (device)/8.59 W (device + power adapter) • Full PoE load: 88.5 W (PoE: 77 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 23.88 (device)/29.31 (device + power adapter) • Full PoE load: 301.97
Static power consumption [W]	5.62 W
MTBF [years]	75.17 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0

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Item	Specification
Number of fans modules	0
Redundant power supply	Cold backup of hybrid optical-electrical ports and power adapters, cold backup between two hybrid optical-electrical ports, and preferential power supply by power adapters
Long-term operating temperature [°C(°F)]	–5°C to +40°C (23°F to 104°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of the device ranges from -5°C to +40°C (23°F to 104°F) when the following optical modules are used: - GE industrial optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	• Power adapter • PoE_IN
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz PoE input: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz PoE input: 54–57 V DC
Maximum input current [A]	1.8 A
Memory	-
Flash memory	-
Console port	Not supported

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Item	Specification
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.5.2 S5731S-L4T2S-RUA

Overview

Table 4-49 Basic information about the S5731S-L4T2S-RUA

Item	Details
Description	S5731S-L4T2S-RUA (4*10/100/1000BASE-T ports, 1*GE SFP port, 1*GE port with an SC connector, TX1310 nm/RX1490 nm, AC power, power adapter)
Part Number	98011769
Model	S5731S-L4T2S-RUA
First supported version	V200R021C10SPC500 V600R022C10

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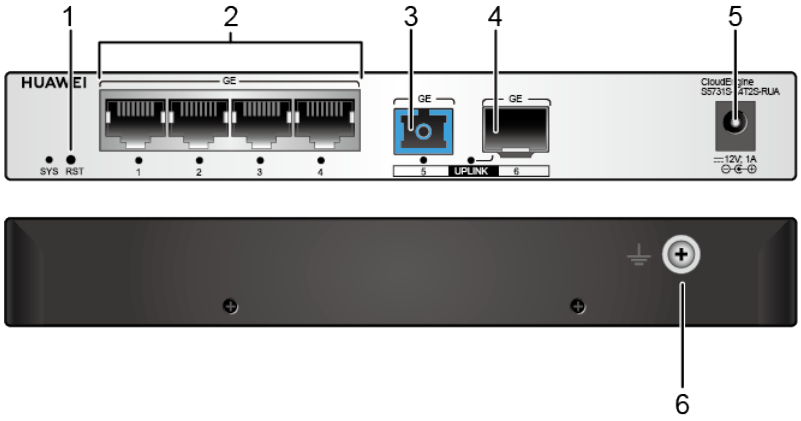
Item	Details
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-15 S5731S-L4T2S-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Four 10/100/1000BASE-T ports
3	One GE optical port **NOTE** The port is an uplink port. The port has a built-in single-fiber bidirectional optical module by default and cannot be removed.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (12 V, 1 A) delivered with the device.	6	Ground screw

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Ports

Table 4-50 Ports on the S5731S-L4T2S-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

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Port	Connector Type	Description	Available Components
GE optical port	SC	A GE optical port can send and receive data at 1000 Mbit/s. The port has a built-in single-fiber bidirectional optical module by default and cannot be removed. Specifications of the built-in optical module: The rate is GE, the center wavelength is TX1310 nm or RX1490 nm, the connector type is SC, and the maximum transmission distance is 10 km. Only the SFP-GE-LX-SM1490-BIDI (RX1310nm/TX1490nm) optical module can be used on the peer port.	-

Indicators and Buttons

The S5731S-L4T2S-RUA has similar indicators to those on the S5731S-L8P2HT-RUA except that the S5731S-L4T2S-RUA does not have PoE indicators. For details, see the S5731S-L8P2HT-RUA.

Power Supply System

The remote unit is powered by the power adapter delivered with the device.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-51 Technical specifications of the S5731S-L4T2S-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 27.0 mm x 185.0 mm x 115.0 mm (1.06 in. x 7.28 in. x 4.53 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 27.0 mm x 185.0 mm x 115.0 mm (1.06 in. x 7.28 in. x 4.53 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 342.0 mm x 228.0 mm (3.23 in. x 13.46 in. x 8.98 in.)
Chassis height [U]	0.61 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.72 kg (1.59 lb)
Weight with packaging [kg(lb)]	1.02 kg (2.25 lb)
Typical power consumption [W]	4.88 W (device) 5.08 W (device + power adapter)
Typical heat dissipation [BTU/hour]	16.65 (device) 17.33 (device + power adapter)
Maximum power consumption [W]	5.06 W (device) 5.26 W (device + power adapter)
Maximum heat dissipation [BTU/hour]	17.27 (device) 19.75 (device + power adapter)
Static power consumption [W]	2.62 W
MTBF [years]	83.23 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 12 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	1 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV

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Item	Specification
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.5.3 S5731S-L4T2ST-RUA

Overview

Table 4-52 Basic information about the S5731S-L4T2ST-RUA

Item	Details
Description	S5731S-L4T2ST-RUA (4*10/100/1000BASE-T ports, 1*GE SFP port, 1*10/100/1000BASE-T port, AC power, power adapter)
Part Number	98011771
Model	S5731S-L4T2ST-RUA
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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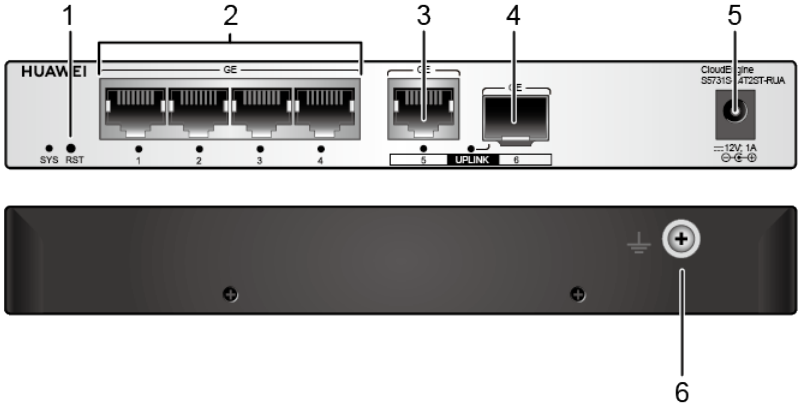
Components

Figure 4-16 S5731S-L4T2ST-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Four 10/100/1000BASE-T ports
3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (12 V, 1 A) delivered with the device.	6	Ground screw

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Ports

Table 4-53 Ports on the S5731S-L4T2ST-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

Indicators and Buttons

The S5731S-L4T2ST-RUA has similar indicators to those on the S5731S-L8P2HT-RUA except that the S5731S-L4T2ST-RUA does not have PoE indicators. For details, see the S5731S-L8P2HT-RUA.

Power Supply System

The remote unit is powered by the power adapter delivered with the device.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-54 Technical specifications of the S5731S-L4T2ST-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 27.0 mm x 185.0 mm x 115.0 mm (1.06 in. x 7.28 in. x 4.53 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 27.0 mm x 185.0 mm x 115.0 mm (1.06 in. x 7.28 in. x 4.53 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 342.0 mm x 228.0 mm (3.23 in. x 13.46 in. x 8.98 in.)
Chassis height [U]	0.61 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.74 kg (1.63 lb)
Weight with packaging [kg(lb)]	1.02 kg (2.25 lb)
Typical power consumption [W]	4.88 W (device) 5.08 W (device + power adapter)
Typical heat dissipation [BTU/hour]	16.65 (device) 17.33 (device + power adapter)
Maximum power consumption [W]	5.06 W (device) 5.26 W (device + power adapter)
Maximum heat dissipation [BTU/hour]	17.27 (device) 17.95 (device + power adapter)
Static power consumption [W]	2.62 W
MTBF [years]	83.23 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 12 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	1 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV

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Item	Specification
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.5.4 S5731S-L4P2S-RUA

Overview

Table 4-55 Basic information about the S5731S-L4P2S-RUA

Item	Details
Description	S5731S-L4P2S-RUA (4*10/100/1000BASE-T ports, PoE++, 1*GE SFP port, 1*GE port with an SC connector, TX1310 nm/RX1490 nm, AC power, power adapter)
Part Number	98011773
Model	S5731S-L4P2S-RUA
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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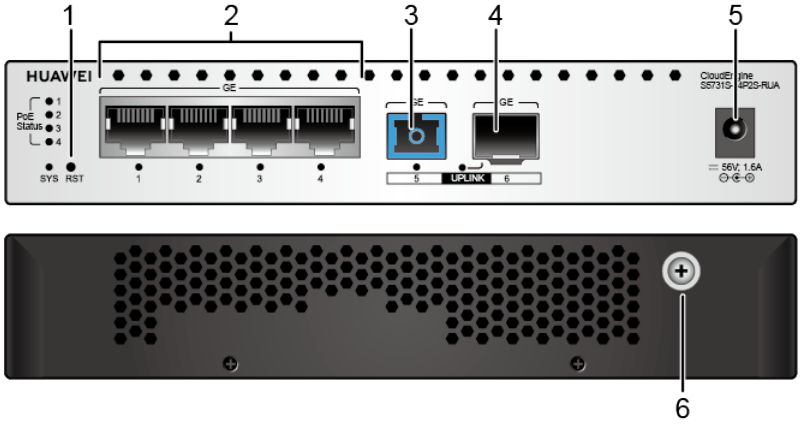
Components

Figure 4-17 S5731S-L4P2S-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Four 10/100/1000BASE-T PoE++ ports
3	One GE optical port **NOTE** The port is an uplink port. The port has a built-in single-fiber bidirectional optical module by default and cannot be removed.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (56 V, 1.6 A) delivered with the device.	6	Ground screw

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Ports

Table 4-56 Ports on the S5731S-L4P2S-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

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Port	Connector Type	Description	Available Components
GE optical port	SC	A GE optical port can send and receive data at 1000 Mbit/s. The port has a built-in single-fiber bidirectional optical module by default and cannot be removed. Specifications of the built-in optical module: The rate is GE, the center wavelength is TX1310 nm or RX1490 nm, the connector type is SC, and the maximum transmission distance is 10 km. Only the SFP-GE-LX-SM1490-BIDI (RX1310nm/TX1490nm) optical module can be used on the peer port.	-

Indicators and Buttons

The S5731S-L4P2S-RUA has similar indicators to those on the S5731S-L8P2HT-RUA. For details, see the S5731S-L8P2HT-RUA.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

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Table 4-57 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	77 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1

NOTE

If the power output of the remote unit is manually configured to comply with 802.3at or 802.3af, the PD connected to the remote unit will be power-cycled when the remote unit is reset due to a cause other than power-off.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-58 Technical specifications of the S5731S-L4P2S-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 350.0 mm x 222.0 mm (3.23 in. x 13.78 in. x 8.74 in.)
Chassis height [U]	0.86 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.12 kg (2.47 lb)
Weight with packaging [kg(lb)]	1.46 kg (3.22 lb)
Typical power consumption [W]	6.82 W (device) 8.30 W (device + power adapter)
Typical heat dissipation [BTU/hour]	23.27 (device) 28.32 (device + power adapter)

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Item	Specification
Maximum power consumption [W]	• Without PoE: 7.00 W (device)/8.48 W (device + power adapter) • Full PoE load: 88.0 W (PoE: 77 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 23.88 (device)/28.94 (device + power adapter) • Full PoE load: 300.27
Static power consumption [W]	4.88 W
MTBF [years]	74.48 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)

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Item	Specification
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	1.6 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.5.5 S5731S-L4P2ST-RUA

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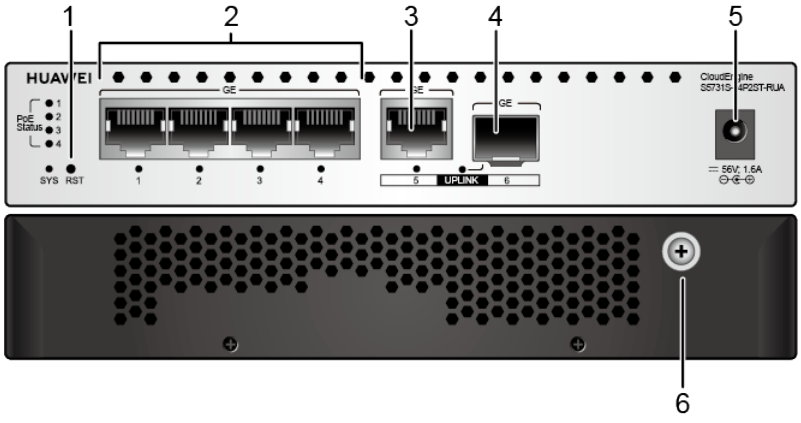
Overview

Table 4-59 Basic information about the S5731S-L4P2ST-RUA

Item	Details
Description	S5731S-L4P2ST-RUA (4*10/100/1000BASE-T ports, PoE++, 1*GE SFP port, 1*10/100/1000BASE-T port, AC power, power adapter)
Part Number	98011775
Model	S5731S-L4P2ST-RUA
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-18 S5731S-L4P2ST-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Four 10/100/1000BASE-T PoE++ ports

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3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (56 V, 1.6 A) delivered with the device.	6	Ground screw

Ports

Table 4-60 Ports on the S5731S-L4P2ST-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

Indicators and Buttons

The S5731S-L4P2ST-RUA has similar indicators to those on the S5731S-L8P2HT-RUA. For details, see the S5731S-L8P2HT-RUA.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

Table 4-61 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	77 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1

NOTE

If the power output of the remote unit is manually configured to comply with 802.3at or 802.3af, the PD connected to the remote unit will be power-cycled when the remote unit is reset due to a cause other than power-off.

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Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-62 Technical specifications of the S5731S-L4P2ST-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 350.0 mm x 222.0 mm (3.23 in. x 13.78 in. x 8.74 in.)
Chassis height [U]	0.86 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.14 kg (2.51 lb)
Weight with packaging [kg(lb)]	1.46 kg (3.22 lb)
Typical power consumption [W]	6.80 W (device) 7.68 W (device + power adapter)
Typical heat dissipation [BTU/hour]	23.20 (device) 26.21 (device + power adapter)
Maximum power consumption [W]	• Without PoE: 7.00 W (device)/7.88 W (device + power adapter) • Full PoE load: 88.0 W (PoE: 77 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 23.88 (device)/26.89 (device + power adapter) • Full PoE load: 300.27
Static power consumption [W]	4.68 W
MTBF [years]	78.74 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30

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Item	Specification
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	1.6 A
Memory	-
Flash memory	-
Console port	Not supported

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Item	Specification
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.5.6 S5731S-L4P2HT-RUA

Overview

Table 4-63 Basic information about the S5731S-L4P2HT-RUA

Item	Details
Description	S5731S-L4P2HT-RUA (4*10/100/1000BASE-T ports, PoE++, 1*GE hybrid optical-electrical SFP port, 1*10/100/1000BASE-T port, PoE input)
Part Number	98011777
Model	S5731S-L4P2HT-RUA
First supported version	V200R021C10SPC500 V600R022C10

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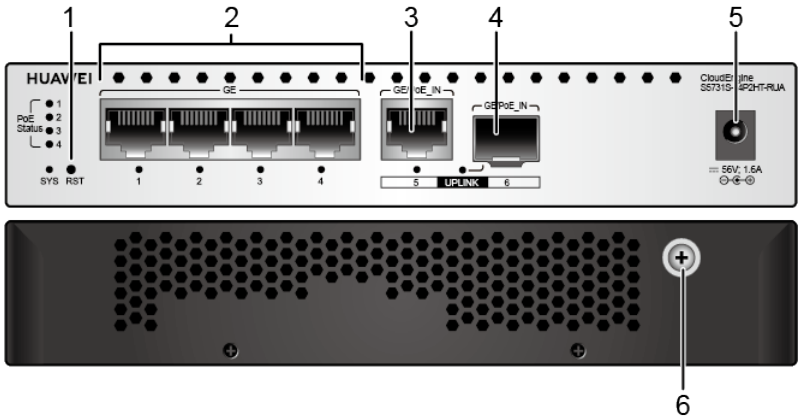
Item	Details
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-19 S5731S-L4P2HT-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Four 10/100/1000BASE-T PoE++ ports
3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port. The port can receive PoE power from a central switch through an Ethernet cable or the first-generation hybrid cable.	4	One GE/2.5GE hybrid optical-electrical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions. The port can receive PoE power from a central switch through the second-generation hybrid cable. When using a hybrid cable to receive power, you must use the pigtails or jumpers and hybrid modules matching the second-generation hybrid cable.

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5	Power adapter socket **NOTE** The power adapter is not delivered with the device by default and can be purchased separately (part number: 02221024).	6	Ground screw

Ports

Table 4-64 Ports on the S5731S-L4P2HT-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. It can receive PoE power from a central switch through an Ethernet cable.	• **Ethernet cable** • **First-generation hybrid cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE hybrid optical-electrical port	SFP	A GE/2.5GE hybrid optical-electrical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **GE SFP Hybrid Modules** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **2.5GE eSFP Hybrid Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **First-generation hybrid cable** • **Second-generation hybrid cable**

Indicators and Buttons

The S5731S-L4P2HT-RUA has similar indicators to those on the S5731S-L8P2HT-RUA. For details, see the S5731S-L8P2HT-RUA.

Power Supply System

The remote unit supports the following power supply modes:

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- Powered by an external power adapter (separately purchased)
- Powered by a central switch using an Ethernet cable of Cat5e or higher category (occupies the uplink electrical port, which is used for both PoE power input and data transmission)
- Powered by a central switch using the second-generation hybrid cable (occupies the uplink hybrid optical-electrical port, which is used for both PoE power input and data transmission)
- Powered by a central switch using the first-generation hybrid cable (occupies the uplink electrical port and uplink hybrid optical-electrical port. The uplink electrical port is used for PoE power input, and the uplink hybrid optical-electrical port is used for data transmission.)

When different power supply modes are used at the same time, the system preferentially uses the power adapter for power supply. The cold backup mode is used between different power supply modes and cannot supply power to the remote unit at the same time. The two uplink ports have no default priority, and the connection time is used as the priority.

The remote unit can provide PoE power for external PDs. The PoE power supply capability varies according to the power supply mode.

Table 4-65 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)	Remark
Powered by an external power adapter	77 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	-

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Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)	Remark
Powered by a central switch	Forcible power supply disabled (default): max 60 W	• 802.3af (15.4 W per port): 3 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	• If no PD is connected to the remote unit, the central switch only supplies power to the remote unit. The PoE standard of the central switch must be 802.3at at least. • If PDs are connected to the remote unit, the central switch supplies power to the remote unit and the connected PDs. It is recommended that the output PoE standard of the central switch be 802.3bt and the output power be 90 W. If the 802.3at standard is used, the available power of the PDs connected to the remote unit may be insufficient.
	Forcible power supply enabled: max 83 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2 • 802.3bt (60 W per port): 1	

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NOTICE

When the remote unit is powered by the central switch, the total power consumption of the remote unit and its connected PDs cannot exceed 71.3 W. If the power consumption exceeds 71.3 W, the remote unit and its connected PDs will be powered off and restarted.

When the remote unit is powered by the central switch, the maximum available PoE power in the preceding table can be provided only when the following conditions are met:

- When forcible power supply is disabled by default:
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
- When forcible power supply is enabled (using the **poe force-power port** command):
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
  - The central switch and the remote unit must be connected for a short distance (less than 8 m, with the line loss ignored). If the distance between the central switch and the remote unit is longer than 8 m and the PD is supplied with power based on the maximum power supply capability displayed on the central switch, the remote unit and the connected PD may be powered off and restarted.
  - The output voltage of the power module used by the central switch cannot be lower than 55.5 V.

The actual available PoE power provided by the remote unit is calculated based on the cabling distance between the central switch and the remote unit, the cabling distance between the remote unit and the connected PD, the maximum power consumption of the remote unit, the PoE output voltage of the central switch, and PoE class level output by the central switch.

If the power output of the remote unit is manually configured to comply with 802.3at or 802.3af, the PD connected to the remote unit will be power-cycled when the remote unit is reset due to a cause other than power-off.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-66 Technical specifications of the S5731S-L4P2HT-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 38.0 mm x 185.0 mm x 115.0 mm (1.5 in. x 7.28 in. x 4.53 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 270.0 mm x 178.0 mm (3.23 in. x 10.63 in. x 7.01 in.)
Chassis height [U]	0.86 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.60 kg (1.32 lb)
Weight with packaging [kg(lb)]	0.81 kg (1.79 lb)
Typical power consumption [W]	6.82 W (device) 8.30 W (device + power adapter)
Typical heat dissipation [BTU/hour]	23.27 (device) 28.32 (device + power adapter)
Maximum power consumption [W]	• Without PoE: 7.00 W (device)/8.48 W (device + power adapter) • Full PoE load: 88.0 W (PoE: 77 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 23.88 (device)/28.94 (device + power adapter) • Full PoE load: 300.265
Static power consumption [W]	4.88 W
MTBF [years]	73.98 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0

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Item	Specification
Number of fans modules	0
Redundant power supply	Cold backup of uplink hybrid optical-electrical ports or electrical ports and power adapters, cold backup of uplink hybrid optical-electrical ports and electrical ports, and preferential power supply by power adapters (By default, no power adapter is provided, and the power adapter 02221024 can be used.)
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	• Power adapter • PoE_IN
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz PoE input: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz PoE input: 54–57 V DC
Maximum input current [A]	1.8 A
Memory	-

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Item	Specification
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.5.7 S5731S-L8T2ST-RUA

Overview

Table 4-67 Basic information about the S5731S-L8T2ST-RUA

Item	Details
Description	S5731S-L8T2ST-RUA (8*10/100/1000BASE-T ports, 1*GE SFP port, 1*10/100/1000BASE-T port, AC power, power adapter)
Part Number	98011779
Model	S5731S-L8T2ST-RUA
First supported version	V200R021C10SPC500 V600R022C10

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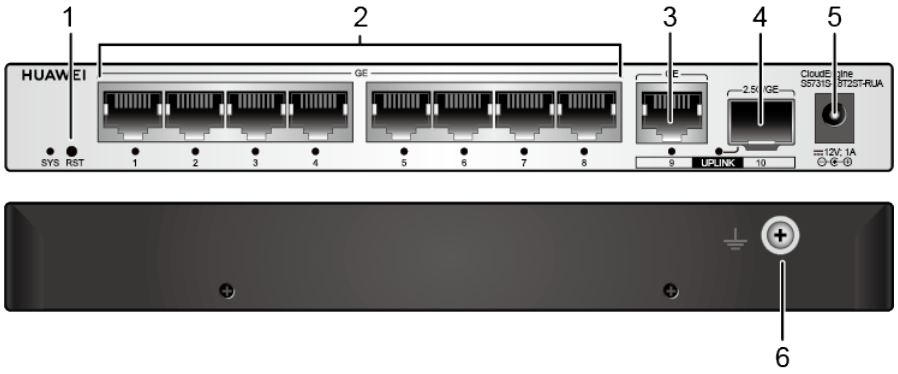
Item	Details
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-20 S5731S-L8T2ST-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Eight 10/100/1000BASE-T ports
3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (12 V, 1 A) delivered with the device.	6	Ground screw

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Ports

Table 4-68 Ports on the S5731S-L8T2ST-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

Indicators and Buttons

The S5731S-L8T2ST-RUA has similar indicators to those on the S5731S-L8P2HT-RUA except that the S5731S-L8T2ST-RUA does not have PoE indicators. For details, see the S5731S-L8P2HT-RUA.

Power Supply System

The remote unit is powered by the power adapter delivered with the device.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-69 Technical specifications of the S5731S-L8T2ST-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 27.0 mm x 210.0 mm x 130.0 mm (1.06 in. x 8.27 in. x 5.12 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 27.0 mm x 210.0 mm x 130.0 mm (1.06 in. x 8.27 in. x 5.12 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 347.0 mm x 242.0 mm (3.23 in. x 13.66 in. x 9.53 in.)
Chassis height [U]	0.61 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.84 kg (1.85 lb)
Weight with packaging [kg(lb)]	1.14 kg (2.51 lb)
Typical power consumption [W]	7.73 W (device) 7.98 W (device + power adapter)
Typical heat dissipation [BTU/hour]	26.38 (device) 27.23 (device + power adapter)
Maximum power consumption [W]	7.86 W (device) 8.11 W (device + power adapter)
Maximum heat dissipation [BTU/hour]	26.82 (device) 27.67 (device +power adapter)
Static power consumption [W]	3.23 W
MTBF [years]	84.79 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 12 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	1 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV

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Item	Specification
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.5.8 S5731S-L8P2ST-RUA

Overview

Table 4-70 Basic information about the S5731S-L8P2ST-RUA

Item	Details
Description	S5731S-L8P2ST-RUA (8*10/100/1000BASE-T ports, PoE+, 1*GE SFP port, 1*10/100/1000BASE-T port, AC power, power adapter)
Part Number	98011781
Model	S5731S-L8P2ST-RUA
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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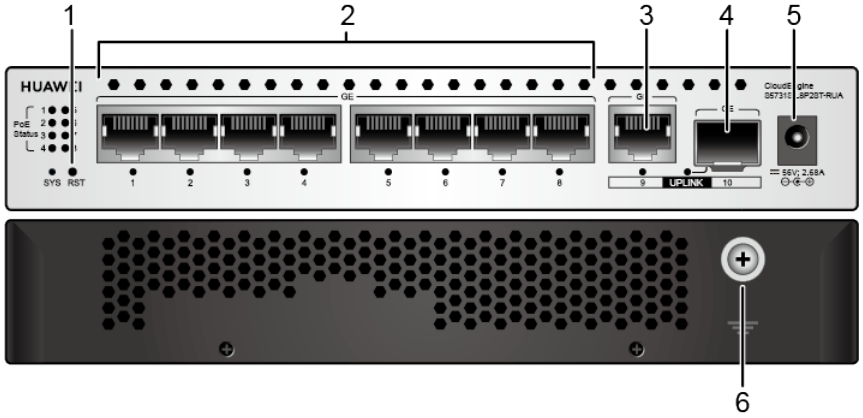
Components

Figure 4-21 S5731S-L8P2ST-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Eight 10/100/1000BASE-T PoE+ ports
3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port.	4	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.
5	Power adapter socket **NOTE** Use the power adapter (56 V, 2.68 A) delivered with the device.	6	Ground screw

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Ports

Table 4-71 Ports on the S5731S-L8P2ST-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	A 10/100/1000BASE-T PoE+ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

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Indicators and Buttons

The S5731S-L8P2ST-RUA has similar indicators to those on the S5731S-L8P2HT-RUA. For details, see the S5731S-L8P2HT-RUA.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

Table 4-72 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	131 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-73 Technical specifications of the S5731S-L8P2ST-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 38.0 mm x 210.0 mm x 130.0 mm (1.5 in. x 8.27 in. x 5.12 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 38.0 mm x 210.0 mm x 130.0 mm (1.5 in. x 8.27 in. x 5.12 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 375.0 mm x 242.0 mm (3.23 in. x 14.76 in. x 9.53 in.)
Chassis height [U]	0.86 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.59 kg (3.51 lb)
Weight with packaging [kg(lb)]	1.98 kg (4.37 lb)
Typical power consumption [W]	9.69 W (device) 11.36 W (device + power adapter)

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Item	Specification
Typical heat dissipation [BTU/hour]	33.06 (device) 38.76 (device + power adapter)
Maximum power consumption [W]	• Without PoE: 10.0 W (device)/11.67 W (device + power adapter) • Full PoE load: 146.0 W (PoE: 131 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 34.12 (device)/39.82 (device + power adapter) • Full PoE load: 498.17
Static power consumption [W]	6.48 W
MTBF [years]	75.78 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)

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Item	Specification
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz
Maximum input current [A]	2.68 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.5.9 S5731S-L8P2HT-RUA

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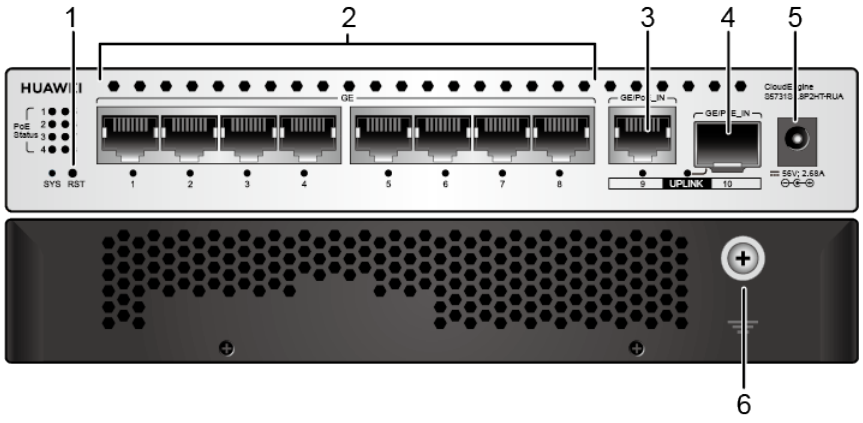
Overview

Table 4-74 Basic information about the S5731S-L8P2HT-RUA

Item	Details
Description	S5731S-L8P2HT-RUA (8*10/100/1000BASE-T ports, PoE+, 1*GE hybrid optical-electrical SFP port, 1*10/100/1000BASE-T port, PoE input)
Part Number	98011783
Model	S5731S-L8P2HT-RUA
First supported version	V200R021C10SPC500 V600R022C10
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-22 S5731S-L8P2HT-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Eight 10/100/1000BASE-T PoE+ ports

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3	One 10/100/1000BASE-T port **NOTE** The port is an uplink port. The port can receive PoE power from a central switch through an Ethernet cable or the first-generation hybrid cable.	4	One GE/2.5GE hybrid optical-electrical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions. The port can receive PoE power from a central switch through the second-generation hybrid cable. When using a hybrid cable to receive power, you must use the pigtails or jumpers and hybrid modules matching the second-generation hybrid cable.
5	Power adapter socket **NOTE** The power adapter is not delivered with the device by default and can be purchased separately (part number: 02221024).	6	Ground screw

Ports

Table 4-75 Ports on the S5731S-L8P2HT-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	A 10/100/1000BASE-T PoE+ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. It can receive PoE power from a central switch through an Ethernet cable.	• **Ethernet cable** • **First-generation hybrid cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE hybrid optical-electrical port	SFP	A GE/2.5GE hybrid optical-electrical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **GE SFP Hybrid Modules** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **2.5GE eSFP Hybrid Modules (supported in V200R023C00 or V600R023C00 and later versions)** • **First-generation hybrid cable** • **Second-generation hybrid cable**

Indicators and Buttons

Figure 4-23 Indicators on the S5731S-L8P2HT-RUA

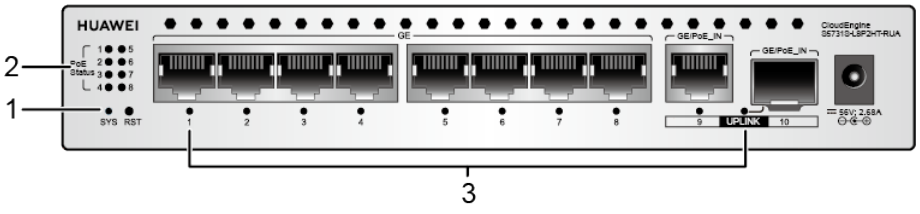

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Table 4-76 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Slow blinking	The system is running normally.
2	PoE STATUS	PoE status indicator	-	Off	The port is connected to a non-PD device or is not supplying PoE power.
			Yellow	Steady on	The port is supplying power to the connected PD.
			Yellow	Blinking	The port is connected to a non-standard PD that can be powered by the port. You can change the power supply mode of the port to force-power so that it can provide power to the PD. The PoE power of the switch is insufficient, and the port cannot provide power to the PD.
3	1-10	Service port indicator	-	Off	The port is not connected.
			Green	Steady on	The port is connected.
			Green	Blinking	The port is sending or receiving data.

Power Supply System

The remote unit supports the following power supply modes:

- Powered by an external power adapter (separately purchased)
- Powered by a central switch using an Ethernet cable of Cat5e or higher category (occupies the uplink electrical port, which is used for both PoE power input and data transmission)
- Powered by a central switch using the second-generation hybrid cable (occupies the uplink hybrid optical-electrical port, which is used for both PoE power input and data transmission)
- Powered by a central switch using the first-generation hybrid cable (occupies the uplink electrical port and uplink hybrid optical-electrical port. The uplink electrical port is used for PoE power input, and the uplink hybrid optical-electrical port is used for data transmission.)

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When different power supply modes are used at the same time, the system preferentially uses the power adapter for power supply. The cold backup mode is used between different power supply modes and cannot supply power to the remote unit at the same time. The two uplink ports have no default priority, and the connection time is used as the priority.

The remote unit can provide PoE power for external PDs. The PoE power supply capability varies according to the power supply mode.

Table 4-77 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)	Remark
Powered by an external power adapter	131 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4	-
Powered by a central switch	Forcible power supply disabled (default): max 57 W	• 802.3af (15.4 W per port): 3 • 802.3at (30 W per port): 1	• If no PD is connected to the remote unit, the central switch only supplies power to the remote unit. The PoE standard of the central switch must be 802.3at at least. • If PDs are connected to the remote unit, the central switch supplies power to the remote unit and the connected PDs. It is recommended that the output PoE standard of the central switch be 802.3bt and the output power be 90 W. If the 802.3at standard is used, the available power of the PDs connected to the remote unit may be insufficient.
	Enable forcible power supply: max 80 W	• 802.3af (15.4 W per port): 5 • 802.3at (30 W per port): 2	

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NOTICE

When the remote unit is powered by the central switch, the total power consumption of the remote unit and its connected PDs cannot exceed 71.3 W. If the power consumption exceeds 71.3 W, the remote unit and its connected PDs will be powered off and restarted.

When the remote unit is powered by the central switch, the maximum available PoE power in the preceding table can be provided only when the following conditions are met:

- When forcible power supply is disabled by default:
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
- When forcible power supply is enabled (using the **poe force-power port** command):
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
  - The central switch and the remote unit must be connected for a short distance (less than 8 m, with the line loss ignored). If the distance between the central switch and the remote unit is longer than 8 m and the PD is supplied with power based on the maximum power supply capability displayed on the central switch, the remote unit and the connected PD may be powered off and restarted.
  - The output voltage of the power module used by the central switch cannot be lower than 55.5 V.

The actual available PoE power provided by the remote unit is calculated based on the cabling distance between the central switch and the remote unit, the cabling distance between the remote unit and the connected PD, the maximum power consumption of the remote unit, the PoE output voltage of the central switch, and PoE class level output by the central switch.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-78 Technical specifications of the S5731S-L8P2HT-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 38.0 mm x 210.0 mm x 130.0 mm (1.5 in. x 8.27 in. x 5.12 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 38.0 mm x 210.0 mm x 130.0 mm (1.5 in. x 8.27 in. x 5.12 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	82.0 mm x 275.0 mm x 196.0 mm (3.23 in. x 10.83 in. x 7.72 in.)
Chassis height [U]	0.86 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.75 kg (1.65 lb)
Weight with packaging [kg(lb)]	0.94 kg (2.07 lb)
Typical power consumption [W]	8.82 W (device) 10.82 W (device + power adapter)
Typical heat dissipation [BTU/hour]	30.09 (device) 36.92 (device + power adapter)
Maximum power consumption [W]	• Without PoE: 9.60 W (device)/11.60 W (device + power adapter) • Full PoE load: 146 W (PoE: 131 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 32.76 (device)/39.58 (device + power adapter) • Full PoE load: 498.17
Static power consumption [W]	5.6 W
MTBF [years]	71.36 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans): < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans): < 20
Number of card slots	0
Number of power slots	0

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Item	Specification
Number of fans modules	0
Redundant power supply	Cold backup of uplink hybrid optical-electrical ports or electrical ports and power adapters, cold backup of uplink hybrid optical-electrical ports and electrical ports, and preferential power supply by power adapters (By default, no power adapter is provided, and the power adapter 02221024 can be used.)
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5905.44-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (721.78 ft.). The device cannot start when the temperature is lower than 0°C (32°F). The operating temperature of a device ranges from -5°C to +45°C (23°F to 113°F) when the device uses the following optical modules: - GE optical modules with a transmission distance of less than or equal to 10 km
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	• Power adapter • PoE_IN
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz PoE input: 56 V DC
Input voltage range [V]	Power adapter input: 90–290 V AC; 47–63 Hz PoE input: 54–57 V DC
Maximum input current [A]	2.68 A
Memory	-

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Item	Specification
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Power adapter: ±6 kV in differential mode and ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.5.10 S5731S-L16P2SR-RUA

Overview

Table 4-79 Basic information about the S5731S-L16P2SR-RUA

Item	Details
Description	S5731S-L16P2SR-RUA(16*10/100/1000BASE-T ports, 2*GE SFP ports, PoE+, Fanless, AC power)
Part Number	98012159
Model	S5731S-L16P2SR-RUA
First supported version	V200R022C10 V600R022C10

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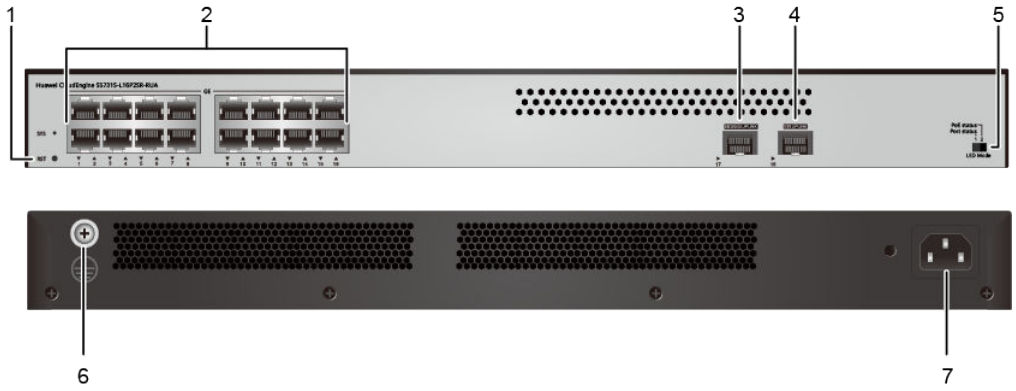
Item	Details
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-24 S5731S-L16P2SR-RUA appearance



1	One RST button **NOTICE** To reset the device, press and hold down the button for less than 6s.	2	Sixteen 10/100/1000BASE-T PoE+ ports
3	One GE/2.5GE optical port **NOTE** The port is an uplink port. The 2.5GE rate is supported in V200R023C00 or V600R023C00 and later versions.	4	One GE optical port **NOTE** The port is an uplink port.
5	Port indicator status switch **NOTE** Port status: The port indicator indicates the data connection status of the port. PoE status: The port indicator indicates the PoE status of the port.	6	Ground screw

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7	AC socket **NOTE** Use the power cable delivered with the device.	-	-

Ports

Table 4-80 Ports on the S5731S-L16P2SR-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
GE optical port	SFP	A GE optical port can send and receive data at 1000 Mbit/s.	**GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)**

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Port	Connector Type	Description	Available Components
GE/2.5GE optical port	SFP	A GE/2.5GE optical port can send and receive data at 1000 Mbit/s or 2.5 Gbit/s.	• **GE eSFP optical modules (only optical modules with transmission distances less than or equal to 10 km are supported)** • **2.5GE eSFP Optical Modules (supported in V200R023C00 or V600R023C00 and later versions)**

Indicators and Buttons

Table 4-81 Description of indicators on the device

Name	Color	Status	Description
System status indicator	-	Off	The system is not running.
	Green	Fast blinking	The system is starting.
	Green	Slow blinking	The system is running normally.
Port indicator (service status)	-	Off	The port is not connected.
	Green	Steady on	The port is connected.
	Green	Blinking	The port is sending or receiving data.
Port indicator (PoE status)	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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Name	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port.

Power Supply System

The remote unit has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-82 Technical specifications of the S5731S-L16P2SR-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 260.0 mm (1.72 in. x 17.40 in. x 10.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 267.0 mm (1.72 in. x 17.40 in. x 10.51 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 555.0 mm x 400.0 mm (3.54 in. x 21.85 in. x 15.75 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.19 kg (7.03 lb)
Weight with packaging [kg(lb)]	3.83 kg (8.44 lb)
Typical power consumption [W]	16.42 W
Typical heat dissipation [BTU/hour]	56.03 BTU/hour
Maximum power consumption [W]	• Without PoE: 16.7 W • Full PoE load: 160.45 W (PoE: 125 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• Without PoE: 56.98 • Full PoE load: 547.47
Static power consumption [W]	9.28 W
MTBF [years]	78.68 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	-
Flash memory	-

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Item	Specification
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.6 S5731I-L

4.6.1 S5731I-L8T2SN

Overview

Table 4-83 Basic information about the S5731I-L8T2SN

Item	Details
Description	S5731I-L8T2SN (8*10/100/1000BASE-T ports, 2*GE SFP ports, DIN Rail Mounting,Single 9.6 to 60V DC power, Fanless)
Part Number	98012422
Model	S5731I-L8T2SN
First supported version	V600R024C00

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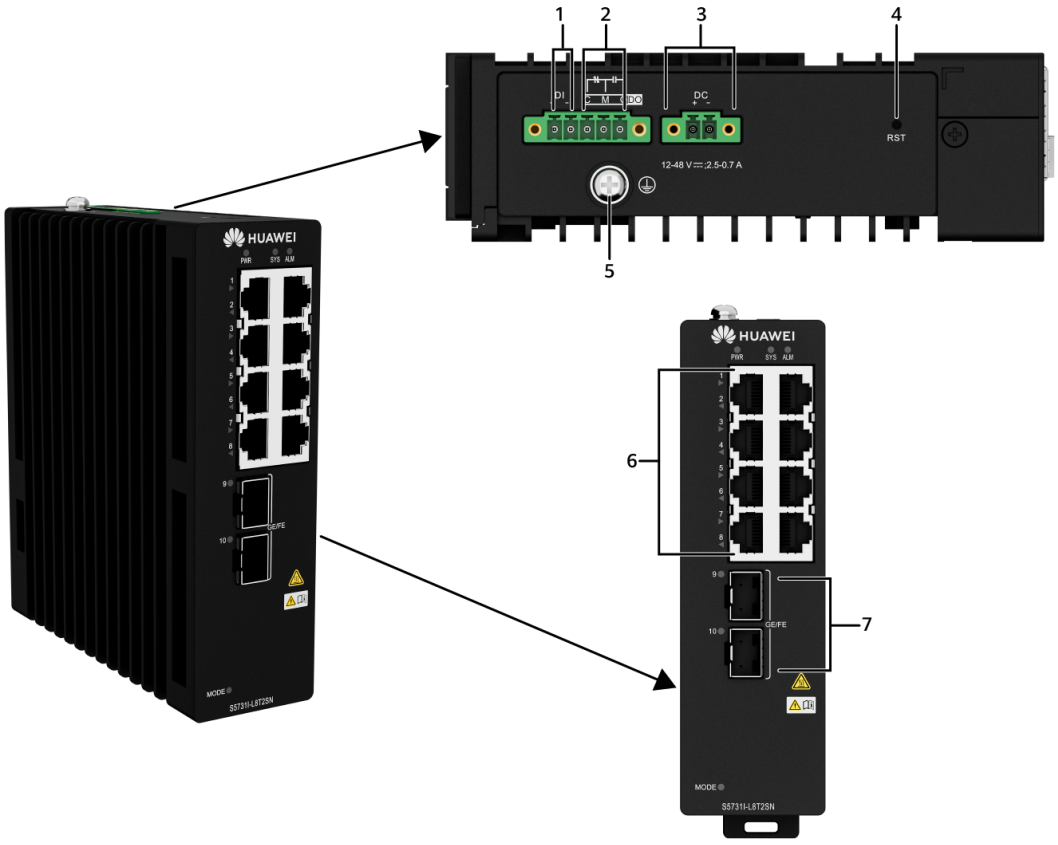
NOTE

The S5731I-L series industrial switches support two management modes:

- **Web management mode**: Devices can be managed and maintained through the web system. By default, they work in web management mode. For details, see CloudEngine *S5731I Series V600RxxxCxx* Product Documentation (Web-based Management Mode).
- **Simplified management mode**: Devices function as remote units (RUs) and are centrally controlled and managed by the central switch. For details, see "Simplified Architecture Configuration (the Solar System Solution)" in CloudEngine *S3700, S5700, and S6700 V600RxxxCxx Product Documentation - Configuration Guide - System Management*.

Components

Figure 4-25 S5731I-L8T2SN appearance



1	One DI port **NOTE** It must be used with **1x5-Pin Phoenix Connector**, which is included in the auxiliary material package delivered with the device.	2	One DO port **NOTE** It must be used with **1x5-Pin Phoenix Connector**, which is included in the auxiliary material package delivered with the device.

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3	One DC power input port **NOTE** The following external power module can be configured: **PAC60S12-AN**	4	One RST button **NOTICE** • To reset the device, press and hold down this button for less than 6 seconds. • To restore the device to its factory default settings, press and hold down this button for more than 6 seconds.
5	Ground screw **NOTE** It is used with a **ground cable**.	6	Eight 10/100/1000BASE-T ports
7	Two 1000BASE-X ports **NOTE** The ports are uplink ports when the device works in simplified management mode.	-	-

Ports

Figure 4-26 Typical connections of the DI port

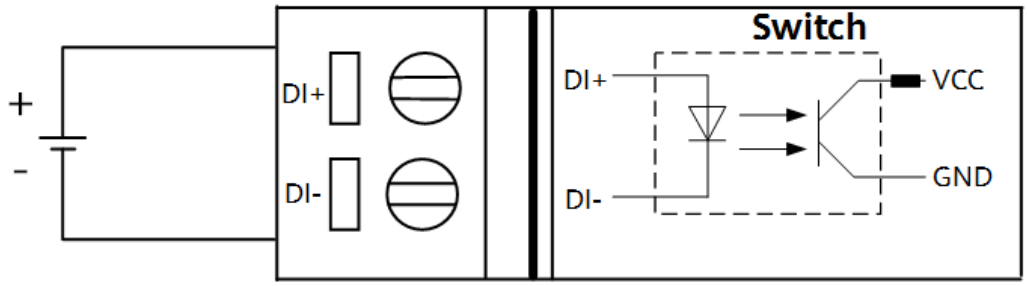

Figure 4-27 Typical connections of the DO port

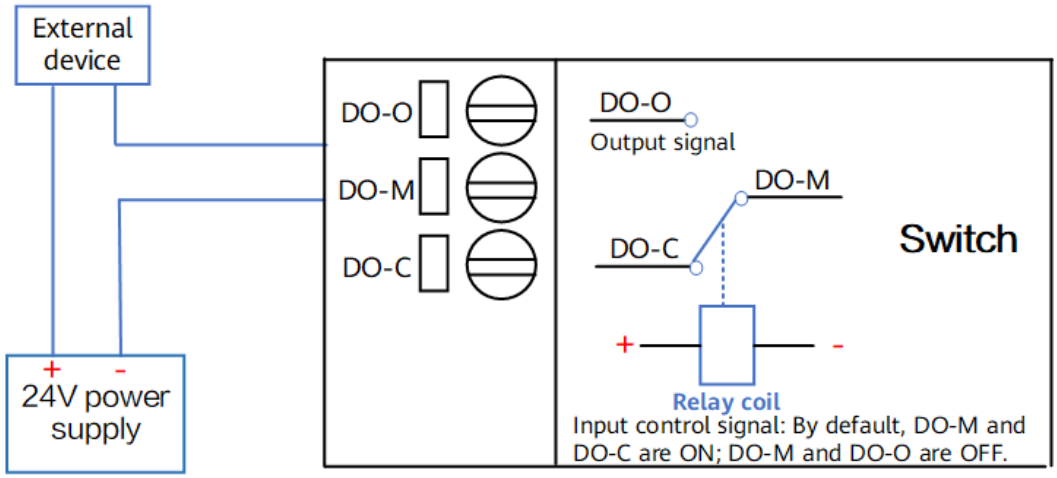

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Table 4-84 Ports on the S5731I-L8T2SN

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s or 100 Mbit/s.	- Industrial optical modules
DI port	1x5-Pin Phoenix Connector	The DI port is used to check active level signals. Signal type: 9.6 V to 30 V for state 1; –30 V to +3 V for state 0	**1x5-Pin Phoenix Connector**
DO port	1x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	**1x5-Pin Phoenix Connector**

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Indicators and Buttons

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Figure 4-28 Indicators on the device

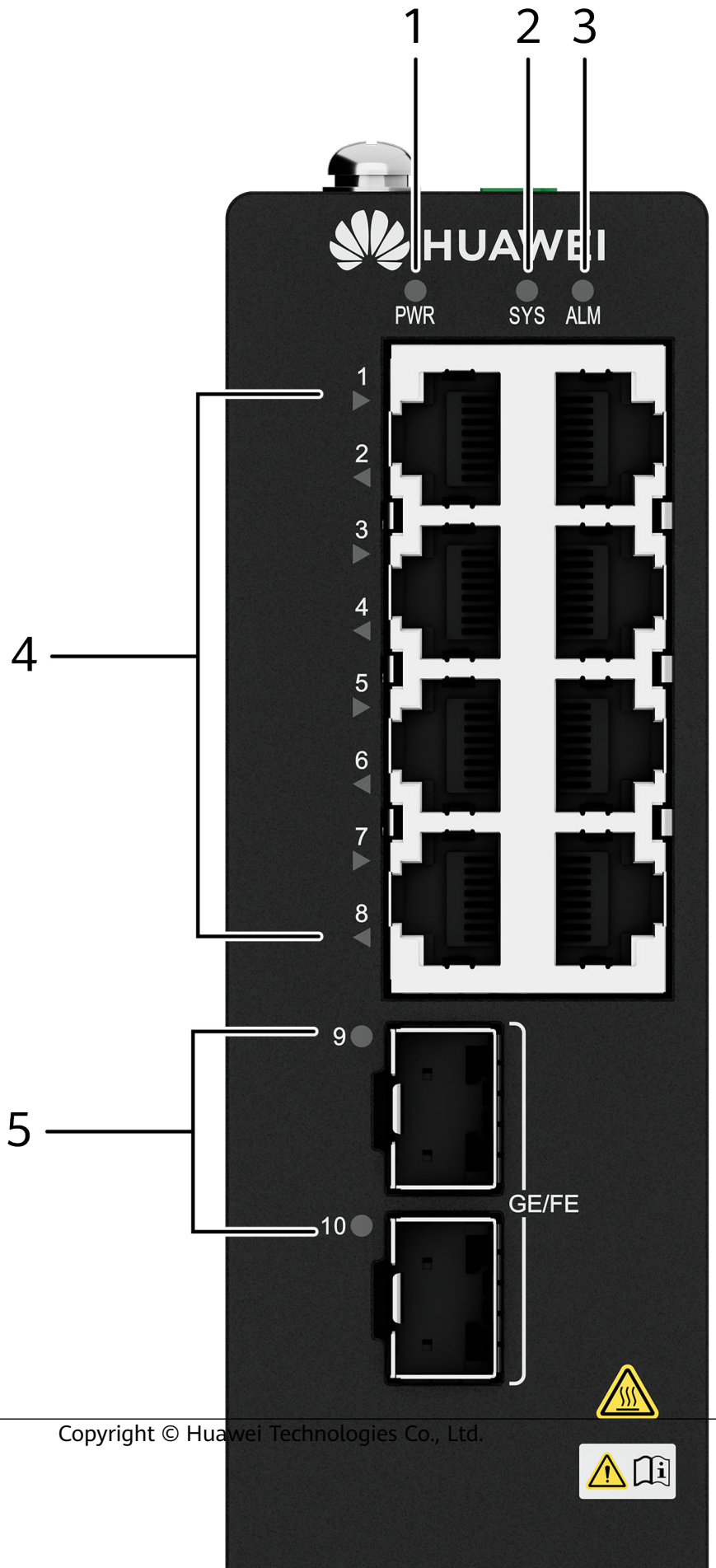

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Table 4-85 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	PWR	Power indicator	-	Steady off	The power module is not supplying power or is abnormal.
			Green	Steady on	Power supply is normal.
2	SYS	System status indicator	-	Steady off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
3	ALM	Alarm indicator	Red	Steady on	The system is faulty or a temperature alarm has been generated.
			-	Steady off	The system is normal.
4	1 to 8	Electrical port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-86**.
5	9 and 10	Optical port indicator (one indicator for each port)	-		

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No.	Indicator	Name	Color	Status	Description
6	MODE	Working mode indicator	Green	Steady on	The device works as an RU.
			-	Steady off	The device works in Web-based management mode.

Table 4-86 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Steady off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

Power Supply System

The device is configured with a single power module. It can be directly connected to an external 12 V to 48 V DC power module or a PAC60S12-AN power module.

Heat Dissipation System

The device has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-87 Technical specifications of the S5731I-L8T2SN

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 44.0 mm x 133.0 mm (5.91 in. x 1.73 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 44.0 mm x 142.0 mm (6.38 in. x 1.73 in. x 5.59 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	113.0 mm x 235.0 mm x 188.0 mm (4.45 in. x 9.25 in. x 7.40 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.975 kg (2.15 lb)
Weight with packaging [kg(lb)]	1.34 kg (2.95 lb)
Typical power consumption [W]	9.72 W
Typical heat dissipation [BTU/hour]	33.17 BTU/hour
Maximum power consumption [W]	12.6 W @ 60 V 10.44 W @ 12 V
Maximum heat dissipation [BTU/hour]	42.99 @ 60 V 35.62 @ 12 V
Static power consumption [W]	5.04 W
MTBF [years]	152.027 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: • Sealed cabinet: –40°C to +65°C (–40°F to +149°F) • Vented cabinet (≥ 40 LFM): –40°C to +70°C (–40°F to +158°F) • Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 12 V DC to 48 V DC
Input voltage range [V]	DC input: 9.6 V DC to 60 V DC
Maximum input current [A]	2.5 A
Flash memory	Physical space: 16 MB
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	DC power: ±2 kV in common mode and ±1 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.6.2 S5731I-L8T2S2XN

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Overview

Table 4-88 Basic information about the S5731I-L8T2S2XN

Item	Details
Description	S5731I-L8T2S2XN (8*10/100/1000BASE-T ports, 2*GE SFP ports, 2*10GE SFP+ ports, DIN Rail Mounting,Dual redundant 9.6 to 60V DC power, Fanless)
Part Number	98012423
Model	S5731I-L8T2S2XN
First supported version	V600R024C00

NOTE

The S5731I-L series industrial switches support two management modes:

- **Web management mode**: Devices can be managed and maintained through the web system. By default, they work in web management mode. For details, see CloudEngine *S5731I Series V600RxxxCxx* Product Documentation (Web-based Management Mode).
- **Simplified management mode**: Devices function as remote units (RUs) and are centrally controlled and managed by the central switch. For details, see "Simplified Architecture Configuration (the Solar System Solution)" in CloudEngine *S3700, S5700, and S6700 V600RxxxCxx Product Documentation - Configuration Guide - System Management*.

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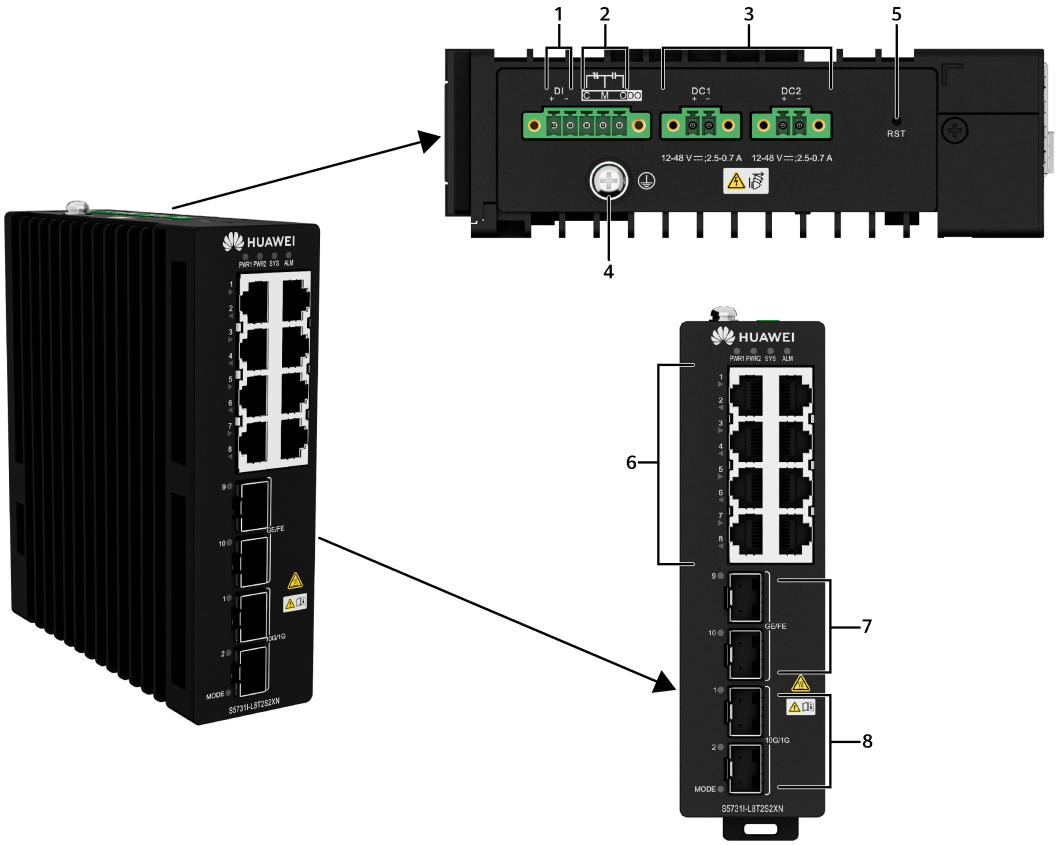
Components

Figure 4-29 S5731I-L8T2S2XN appearance



1	One DI port **NOTE** It must be used with **1x5-Pin Phoenix Connector**, which is included in the auxiliary material package delivered with the device.	2	One DO port **NOTE** It must be used with **1x5-Pin Phoenix Connector**, which is included in the auxiliary material package delivered with the device.
3	Two DC power input ports **NOTE** The following external power module can be configured: **PAC60S12-AN**	4	Ground screw **NOTE** It is used with a **ground cable**.

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5	One RST button **NOTICE** • To reset the device, press and hold down this button for less than 6 seconds. • To restore the device to its factory default settings, press and hold down this button for more than 6 seconds.	6	Eight 10/100/1000BASE-T ports
7	Two 1000BASE-X ports	8	Two 10GE SFP+ ports **NOTE** The ports are uplink ports when the device works in simplified management mode.

Ports

Figure 4-30 Typical connections of the DI port

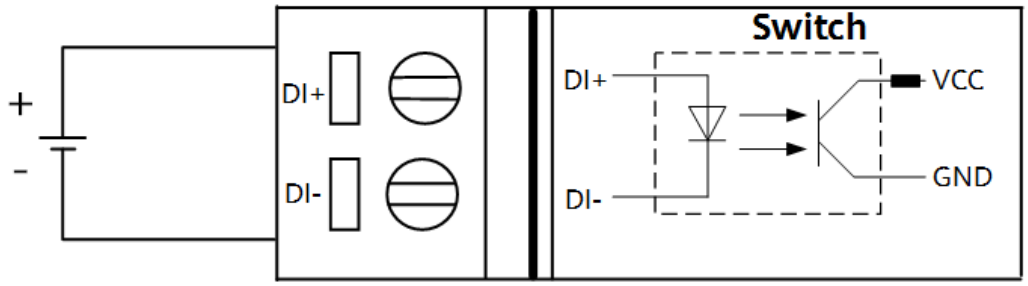

Figure 4-31 Typical connections of the DO port

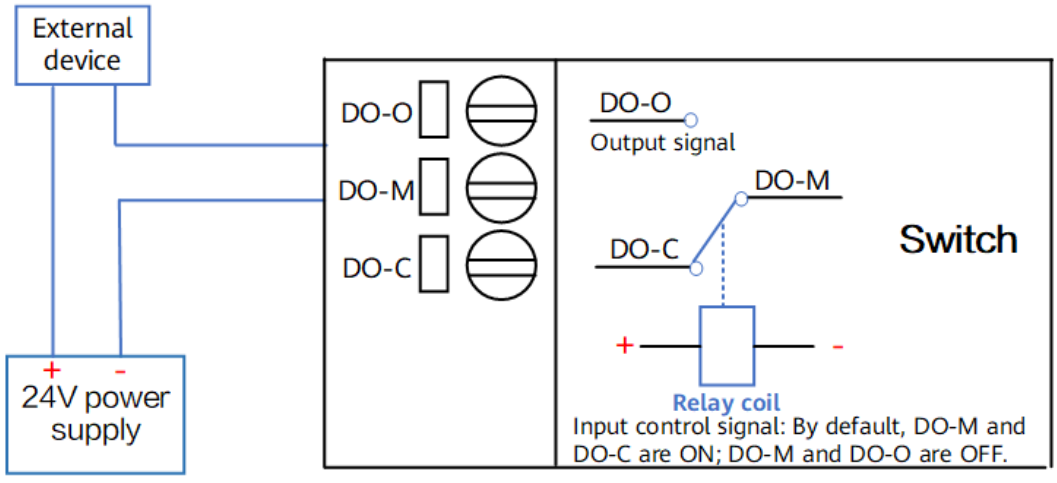

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Table 4-89 Ports on the S5731I-L8T2S2XN

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s or 100 Mbit/s.	- Industrial optical modules
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules (only optical modules with 10 Gbit/s transmission speed and transmission distances less than or equal to 10 km are supported)** • **PEN remote optical modules (V600R024C10 and later versions)**
DI port	1x5-Pin Phoenix Connector	The DI port is used to check active level signals. Signal type: 9.6 V to 30 V for state 1; –30 V to +3 V for state 0	**1x5-Pin Phoenix Connector**

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Port	Connector Type	Description	Available Components
DO port	1x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	**1x5-Pin Phoenix Connector**

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Indicators and Buttons

Figure 4-32 Indicators on the device

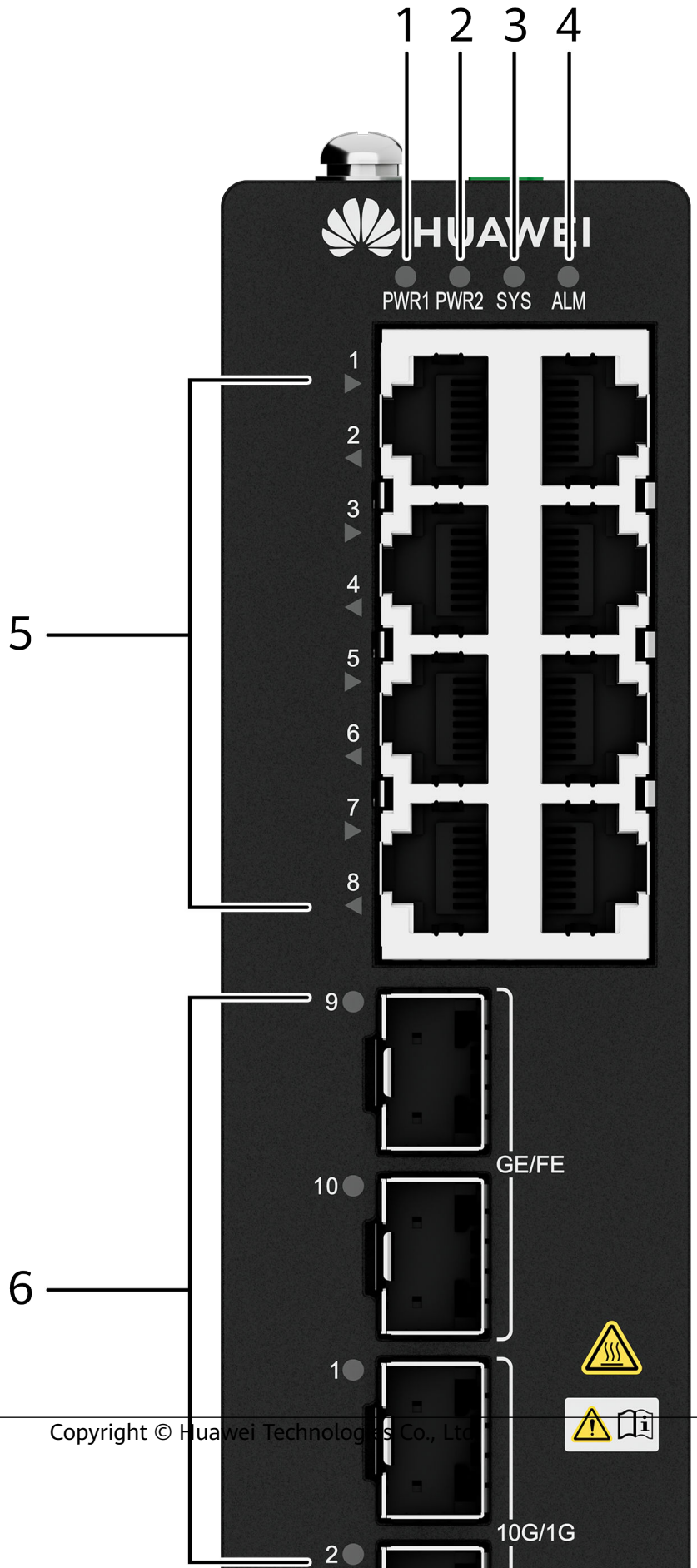

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Table 4-90 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Indicator of power module 1	-	Steady off	Power module 1 is not supplying power or is abnormal.
			Green	Steady on	Power module 1 supplies power properly.
2	PWR 2	Indicator of power module 2	-	Steady off	Power module 2 is not supplying power or is abnormal.
			Green	Steady on	Power module 2 supplies power properly.
3	SYS	System status indicator	-	Steady off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
4	ALM	Alarm indicator	Red	Steady on	The system is faulty or a temperature alarm has been generated.
			-	Steady off	The system is normal.
5	1 to 8	Electrical port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-91**.

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No.	Indicator	Name	Color	Status	Description
6	9 and 10 1 and 2	Optical port indicator (one indicator for each port)	-		
7	MODE	Mode indicator	Green	Steady on	The device works as an RU.
			-	Steady off	The device works in Web-based management mode.

Table 4-91 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Steady off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

Power Supply System

The device can use a single power module or dual power modules for 1+1 power redundancy. It can be directly connected to an external 12 V to 48 V DC power module or a PAC60S12-AN power module.

Heat Dissipation System

The device has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-92 Technical specifications of the S5731I-L8T2S2XN

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 44.0 mm x 133.0 mm (5.91 in. x 1.73 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 44.0 mm x 142.0 mm (6.38 in. x 1.73 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	113.0 mm x 235.0 mm x 188.0 mm (4.45 in. x 9.25 in. x 7.40 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.975 kg (2.15 lb)
Weight with packaging [kg(lb)]	1.34 kg (2.95 lb)
Typical power consumption [W]	12.48 W
Typical heat dissipation [BTU/hour]	42.58 BTU/hour
Maximum power consumption [W]	16.2 W @ 60 V 13.2 W @ 12 V
Maximum heat dissipation [BTU/hour]	55.28 @ 60 V 45.04 @ 12 V
Static power consumption [W]	5.64 W
MTBF [years]	138.479 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +65°C (–40°F to +149°F) ● Vented cabinet (≥ 40 LFM): –40°C to +70°C (–40°F to +158°F) ● Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +50°C (32°F to 122°F) ● Vented cabinet (≥ 40 LFM): 0°C to +55°C (32°F to 131°F) ● Blower-equipped cabinet (≥ 200 LFM): 0°C to +60°C (32°F to 140°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 12 V DC to 48 V DC
Input voltage range [V]	DC input: 9.6 V DC to 60 V DC
Maximum input current [A]	2.5 A
Flash memory	Physical space: 16 MB
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV

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Item	Specification
Power supply surge protection [kV]	DC power: ±2 kV in common mode and ±1 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.6.3 S5731I-L8P2S2XN

Overview

Table 4-93 Basic information about the S5731I-L8P2S2XN

Item	Details
Description	S5731I-L8P2S2XN (8*10/100/1000BASE-T ports, 2*GE SFP ports, 2*10GE SFP+ ports, PoE+, DIN Rail Mounting,Dual redundant 48 to 57V DC power, Fanless)
Part Number	98012424
Model	S5731I-L8P2S2XN
First supported version	V600R024C00

NOTE

The S5731I-L series industrial switches support two management modes:

- **Web management mode**: Devices can be managed and maintained through the web system. By default, they work in web management mode. For details, see CloudEngine *S5731I Series V600RxxxCxx* Product Documentation (Web-based Management Mode).
- **Simplified management mode**: Devices function as remote units (RUs) and are centrally controlled and managed by the central switch. For details, see "Simplified Architecture Configuration (the Solar System Solution)" in CloudEngine *S3700, S5700, and S6700 V600RxxxCxx Product Documentation - Configuration Guide - System Management*.

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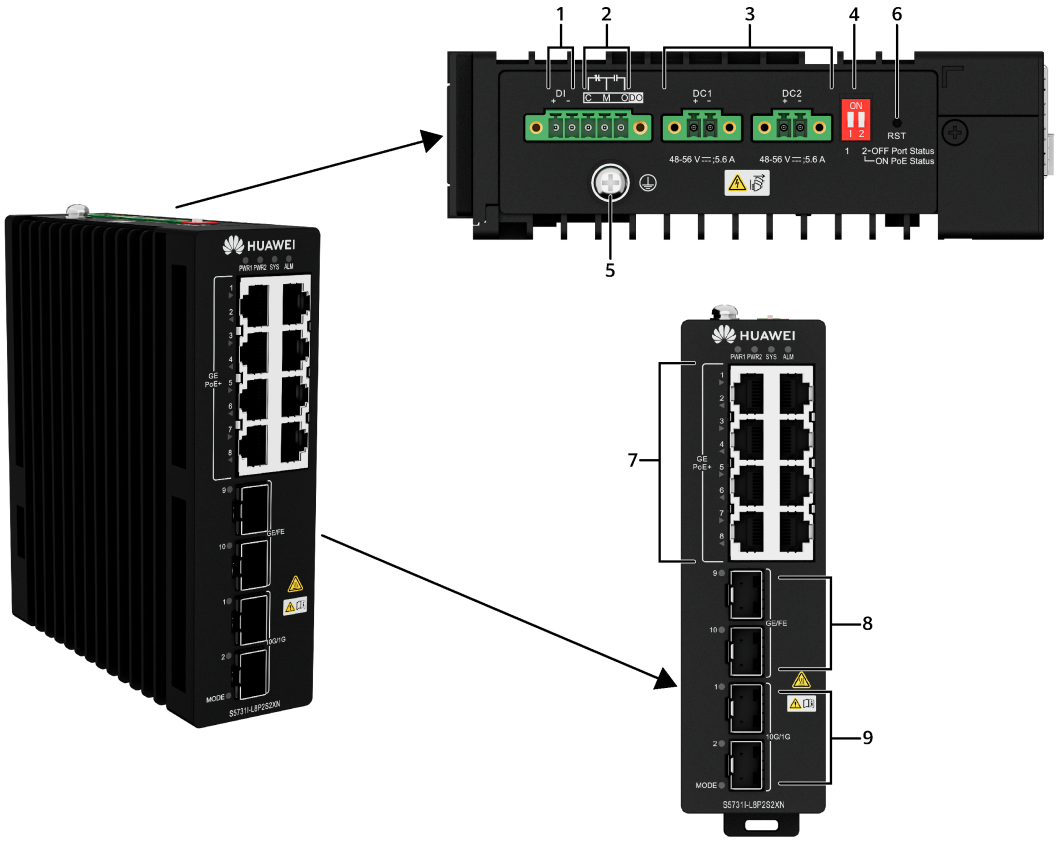
Components

Figure 4-33 S5731I-L8P2S2XN appearance



1	One DI port **NOTE** It must be used with **1x5-Pin Phoenix Connector**, which is included in the auxiliary material package delivered with the device.	2	One DO port **NOTE** It must be used with **1x5-Pin Phoenix Connector**, which is included in the auxiliary material package delivered with the device.
3	Two DC power input ports **NOTE** The following external power module can be configured: **6.2 PAC240S56-CN (240 W PoE AC&HVDC Power)**	4	PoE DIP switch **NOTICE** • DIP switch 1 is reserved and cannot be used. • When DIP switch 2 is set to ON, the device works in PoE mode and the service port indicators show the PoE status of each port. When DIP switch 2 is set to OFF (default), the service port indicators show the Link and Active states of each port.

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5	Ground screw **NOTE** It is used with a **ground cable**.	6	One RST button **NOTICE** • To reset the device, press and hold down this button for less than 6 seconds. • To restore the device to its factory default settings, press and hold down this button for more than 6 seconds.
7	Eight 10/100/1000BASE-T PoE+ ports	8	Two 1000BASE-X ports
9	Two 10GE SFP+ ports **NOTE** The ports are uplink ports when the device works in simplified management mode.	-	-

Ports

Figure 4-34 Typical connections of the DI port

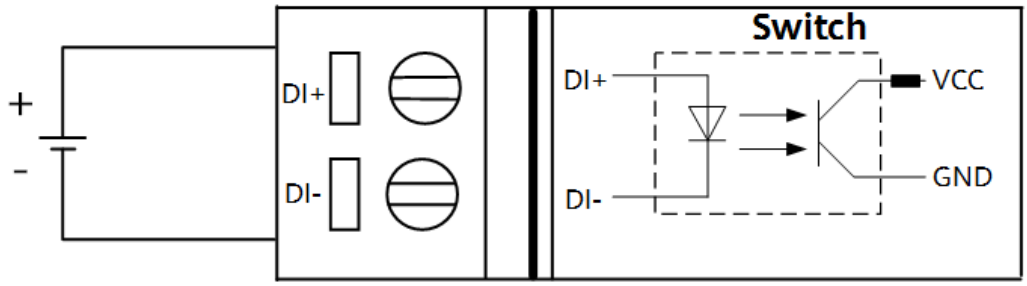

Figure 4-35 Typical connections of the DO port

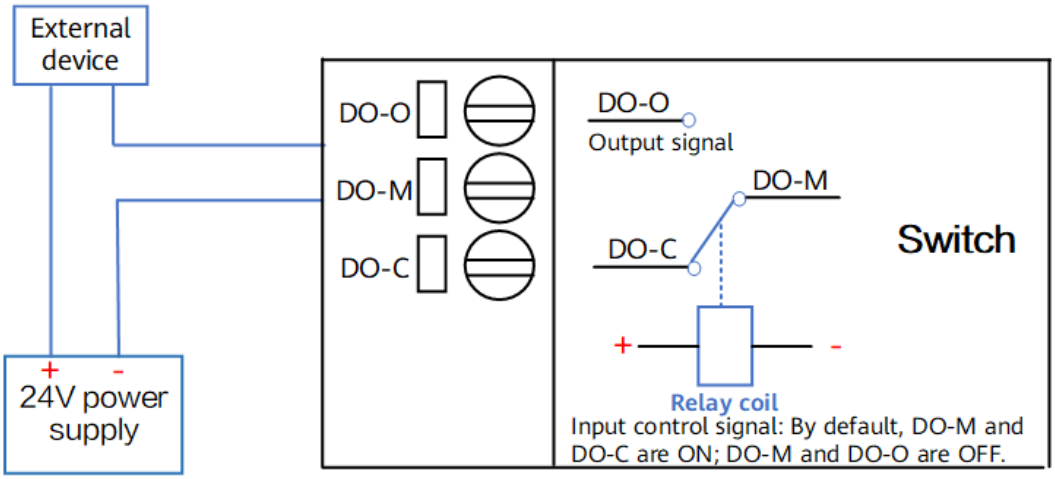

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Table 4-94 Ports on the S5731I-L8P2S2XN

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s or 100 Mbit/s.	- Industrial optical modules
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules (only optical modules with 10 Gbit/s transmission speed and transmission distances less than or equal to 10 km are supported)** • **PEN remote optical modules (V600R024C10 and later versions)**
DI port	1x5-Pin Phoenix Connector	The DI port is used to check active level signals. Signal type: 9.6 V to 30 V for state 1; –30 V to +3 V for state 0	**1x5-Pin Phoenix Connector**

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Port	Connector Type	Description	Available Components
DO port	1x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	**1x5-Pin Phoenix Connector**

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Indicators and Buttons

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Figure 4-36 Indicators on the device

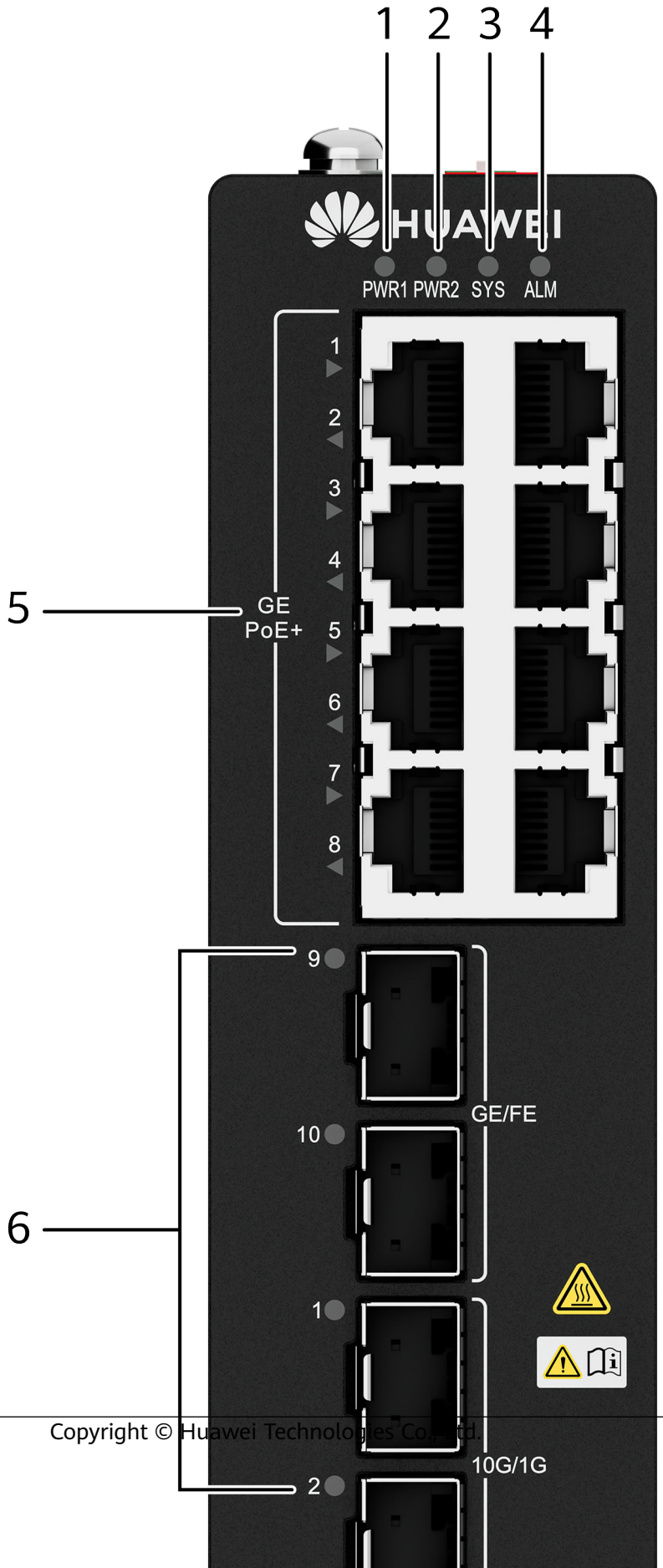

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Table 4-95 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Indicator of power module 1	-	Steady off	Power module 1 is not supplying power or is abnormal.
			Green	Steady on	Power module 1 supplies power properly.
2	PWR 2	Indicator of power module 2	-	Steady off	Power module 2 is not supplying power or is abnormal.
			Green	Steady on	Power module 2 supplies power properly.
3	SYS	System status indicator	-	Steady off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
4	ALM	Alarm indicator	Red	Steady on	The system is faulty or a temperature alarm has been generated.
			-	Steady off	The system is normal.
5	1 to 8	Electrical port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-96**.

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No.	Indicator	Name	Color	Status	Description
6	9 and 10 1 and 2	Optical port indicator (one indicator for each port)	-		
7	MODE	Mode indicator	Green	Steady on	The device works as an RU.
			-	Steady off	The device works in Web-based management mode.

Table 4-96 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Steady off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE connection status indicator mode **NOTE** You need to set DIP switch 2 to ON. In this case, the device works in PoE mode, and the service port indicators show the PoE status of each port.	-	Steady off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The PD connected to the port is not an IEEE-compliant PD or its power exceeds the maximum power or power threshold of the port.

Power Supply System

The device can use a single power module or dual power modules for 1+1 power redundancy. It can be directly connected to an external 56 V DC power module or a PAC240S56-CN power module.

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Table 4-97 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
PAC240S56-CN	-	210 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 7
PAC240S56-CN	PAC240S56-CN	240 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 8
External 56 V DC power module	-	Up to 240 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 8
External 56 V DC power module	External 56 V DC power module	Up to 240 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 8

NOTE

- The PoE power supply of the device is in direct mode. The input voltage must meet the PoE standard. If the input voltage does not meet the PoE standard, the voltage on the PD side may be too low.
- If the PAC240S56-CN is used, one PAC240S56-CN can supply power to only one S5731I-L8P2S2XN at a time.
- If a non-Huawei external DC power supply is used, ensure that it meets the following requirement: Maximum power consumption of the device + Number of PoE ports in use x PoE consumption of each port
- The maximum available PoE power supported by the device is subject to the following restrictions:
  - The maximum available PoE power is 240 W.
  - The 240 W power module (PAC240S56-CN) recommended by Huawei provides a maximum of 210 W PoE power. When the S5731I-L series devices work in Web-based management mode, set the maximum PoE power to be within 210 W on the web system. Otherwise, the device may be powered off due to power overload.

Heat Dissipation System

The device has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-98 Technical specifications of the S5731I-L8P2S2XN

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 44.0 mm x 133.0 mm (5.91 in. x 1.73 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 44.0 mm x 142.0 mm (6.38 in. x 1.73 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	113.0 mm x 235.0 mm x 188.0 mm (4.45 in. x 9.25 in. x 7.40 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.986 kg (2.17 lb)
Weight with packaging [kg(lb)]	1.35 kg (2.98 lb)
Typical power consumption [W]	15.56 W
Typical heat dissipation [BTU/hour]	53.09 BTU/hour
Maximum power consumption [W]	• Without PoE: 16.24 W • Full PoE load: 257.6 W (PoE: 240 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 55.41 • Full PoE load: 878.96 (PoE: 240)
Static power consumption [W]	9.52 W
MTBF [years]	133.599 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +60°C (–40°F to +140°F) ● Vented cabinet (≥ 80 LFM): –40°C to +70°C (–40°F to +158°F) ● Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +45°C (32°F to 113°F) ● Vented cabinet (≥ 80 LFM): 0°C to +55°C (32°F to 131°F) ● Blower-equipped cabinet (≥ 200 LFM): 0°C to +60°C (32°F to 140°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 56 V DC
Input voltage range [V]	DC input: 54 V DC to 57 V DC (PoE/PoE+) 48 V DC (PoE)
Maximum input current [A]	5.6 A
Flash memory	Physical space: 16 MB
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	DC power: ±2 kV in common mode and ±1 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.6.4 S5731I-L16T2S2XN

Overview

Table 4-99 Basic information about the S5731I-L16T2S2XN

Item	Details
Description	S5731I-L16T2S2XN (16*10/100/1000BASE-T ports, 2*GE SFP ports, 2*10GE SFP+ ports, DIN Rail Mounting,Dual redundant 9.6 to 60V DC power, Fanless)
Part Number	98012425
Model	S5731I-L16T2S2XN
First supported version	V600R024C00

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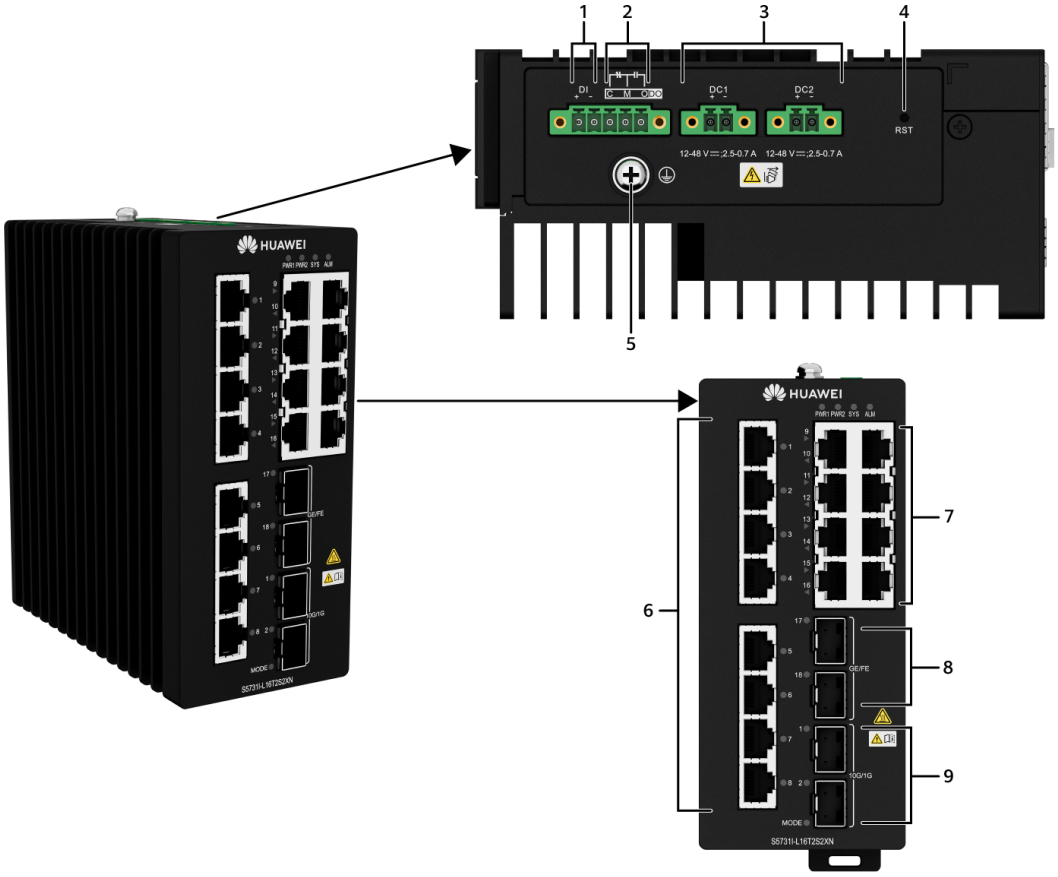
NOTE

The S5731I-L series industrial switches support two management modes:

- **Web management mode**: Devices can be managed and maintained through the web system. By default, they work in web management mode. For details, see CloudEngine *S5731I Series V600RxxxCxx* Product Documentation (Web-based Management Mode).
- **Simplified management mode**: Devices function as remote units (RUs) and are centrally controlled and managed by the central switch. For details, see "Simplified Architecture Configuration (the Solar System Solution)" in CloudEngine *S3700, S5700, and S6700 V600RxxxCxx Product Documentation - Configuration Guide - System Management*.

Components

Figure 4-37 S5731I-L16T2S2XN appearance



1	One DI port **NOTE** It must be used with **1x5-Pin Phoenix Connector**, which is included in the auxiliary material package delivered with the device.	2	One DO port **NOTE** It must be used with **1x5-Pin Phoenix Connector**, which is included in the auxiliary material package delivered with the device.

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3	Two DC power input ports **NOTE** The following external power module can be configured: **PAC60S12-AN**	4	One RST button **NOTICE** • To reset the device, press and hold down this button for less than 6 seconds. • To restore the device to its factory default settings, press and hold down this button for more than 6 seconds.
5	Ground screw **NOTE** It is used with a **ground cable**.	6 and 7	Sixteen 10/100/1000BASE-T ports
8	Two 1000BASE-X ports	9	Two 10GE SFP+ ports **NOTE** The ports are uplink ports when the device works in simplified management mode.

Ports

Figure 4-38 Typical connections of the DI port

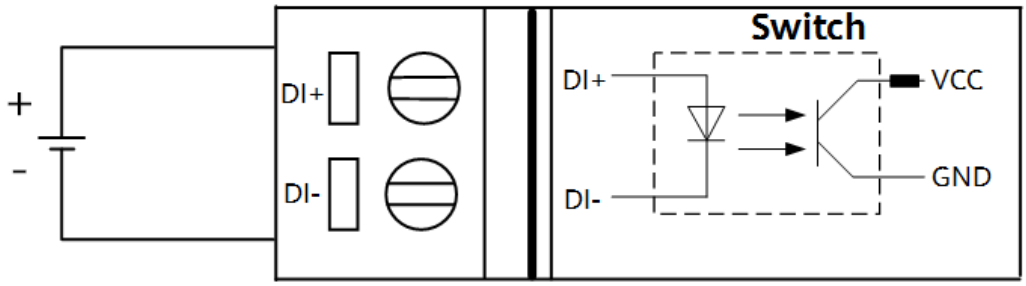

Figure 4-39 Typical connections of the DO port

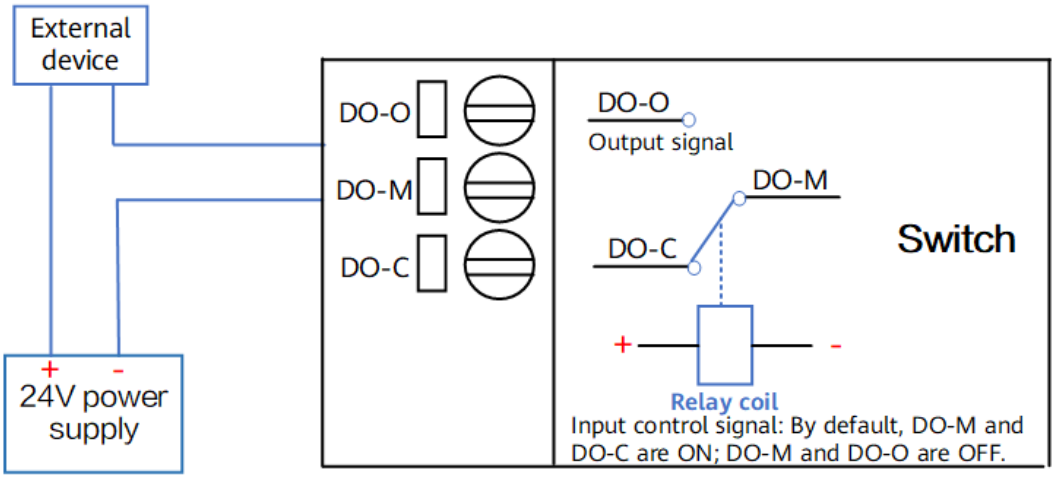

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Table 4-100 Ports on the S5731I-L16T2S2XN

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s or 100 Mbit/s.	- Industrial optical modules
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules (only optical modules with 10 Gbit/s transmission speed and transmission distances less than or equal to 10 km are supported)** • **PEN remote optical modules (V600R024C10 and later versions)**
DI port	1x5-Pin Phoenix Connector	The DI port is used to check active level signals. Signal type: 9.6 V to 30 V for state 1; –30 V to +3 V for state 0	**1x5-Pin Phoenix Connector**

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Port	Connector Type	Description	Available Components
DO port	1x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	1x5-Pin Phoenix Connector

Indicators and Buttons

Figure 4-40 Indicators on the device

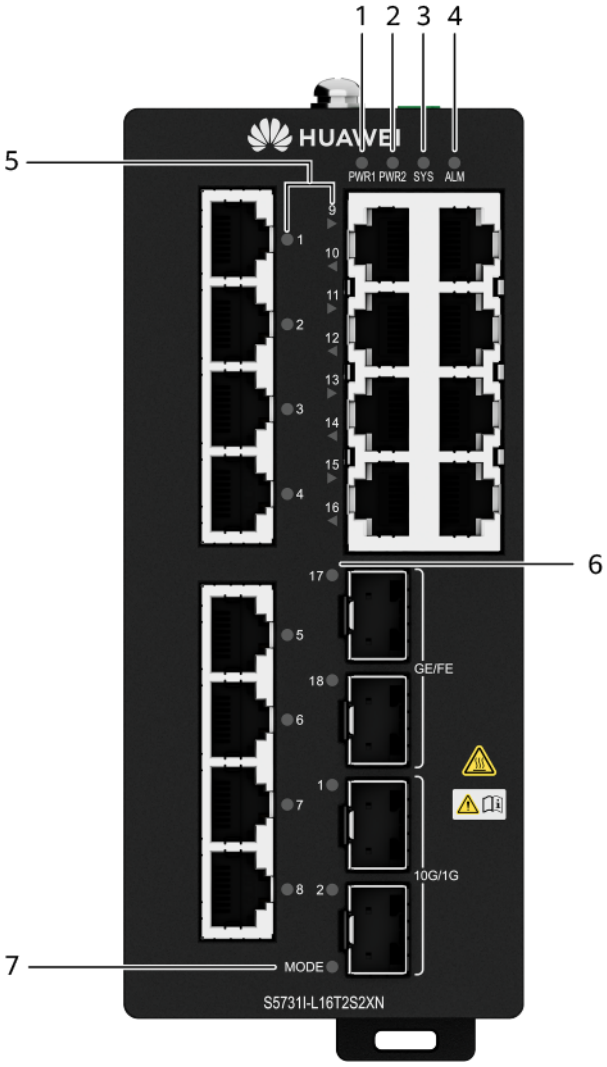

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Table 4-101 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Indicator of power module 1	-	Steady off	Power module 1 is not supplying power or is abnormal.
			Green	Steady on	Power module 1 supplies power properly.
2	PWR 2	Indicator of power module 2	-	Steady off	Power module 2 is not supplying power or is abnormal.
			Green	Steady on	Power module 2 supplies power properly.
3	SYS	System status indicator	-	Steady off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
4	ALM	Alarm indicator	Red	Steady on	The system is faulty or a temperature alarm has been generated.
			-	Steady off	The system is normal.
5	1 to 16	Electrical port indicator (one indicator for each port)	For indicators 9 to 16, arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-102**.

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No.	Indicator	Name	Color	Status	Description
6	17 and 18 1 and 2	Optical port indicator (one indicator for each port)	-		
7	MODE	Mode indicator	Green	Steady on	The device works as an RU.
			-	Steady off	The device works in Web-based management mode.

Table 4-102 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Steady off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

Power Supply System

The device can use a single power module or dual power modules for 1+1 power redundancy. It can be directly connected to an external 12 V to 48 V DC power module or a PAC60S12-AN power module.

Heat Dissipation System

The device has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-103 Technical specifications of the S5731I-L16T2S2XN

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 66.0 mm x 133.0 mm (5.91 in. x 2.60 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 66.0 mm x 142.0 mm (6.38 in. x 2.60 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	122.0 mm x 235.0 mm x 188.0 mm (4.80 in. x 9.25 in. x 7.40 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.32 kg (2.91 lb)
Weight with packaging [kg(lb)]	1.7 kg (3.75 lb)
Typical power consumption [W]	17.88 W
Typical heat dissipation [BTU/hour]	61.01 BTU/hour
Maximum power consumption [W]	22.2 W @ 60 V 19.8 W @ 12 V
Maximum heat dissipation [BTU/hour]	75.75 @ 60 V 67.56 @ 12 V
Static power consumption [W]	7.08 W
MTBF [years]	96.228 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +65°C (–40°F to +149°F) ● Vented cabinet (≥ 40 LFM): –40°C to +70°C (–40°F to +158°F) ● Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +50°C (32°F to 122°F) ● Vented cabinet (≥ 40 LFM): 0°C to +55°C (32°F to 131°F) ● Blower-equipped cabinet (≥ 200 LFM): 0°C to +60°C (32°F to 140°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 12 V DC to 48 V DC
Input voltage range [V]	DC input: 9.6 V DC to 60 V DC
Maximum input current [A]	2.5 A
Flash memory	Physical space: 16 MB
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV

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Item	Specification
Power supply surge protection [kV]	DC power: ±2 kV in common mode and ±1 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.7 S5751-L

4.7.1 S5751-L8T2J-RUA

Overview

Table 4-104 Basic information about the S5751-L8T2J-RUA

Item	Details
Description	S5751-L8T2J-RUA (8*10/100/1000BASE-T ports, 2*2.5GE SFP ports, with 1*AC power adapter, Fanless)
Part Number	98012463
Model	S5751-L8T2J-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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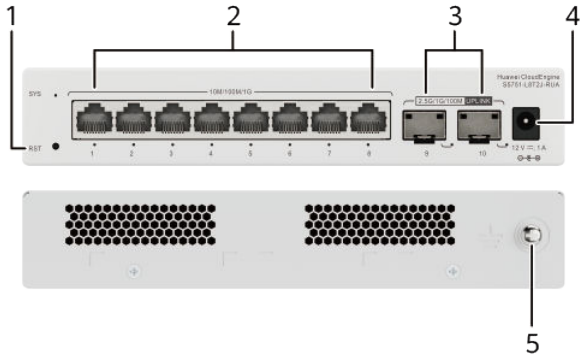
Components

Figure 4-41 S5751-L8T2J-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	Eight 10/100/1000BASE-T ports
3	Two 2.5GE SFP optical ports **NOTE** The ports are uplink ports.	4	Power adapter socket **NOTE** Use the power adapter (12 V DC, 1 A) delivered with the device.
5	Ground screw	-	-

Ports

Table 4-105 Ports on the S5751-L8T2J-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	Ethernet cable

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Port	Connector Type	Description	Available Components
2.5GE SFP optical port	SFP	A 2.5GE SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **PEN remote optical modules**

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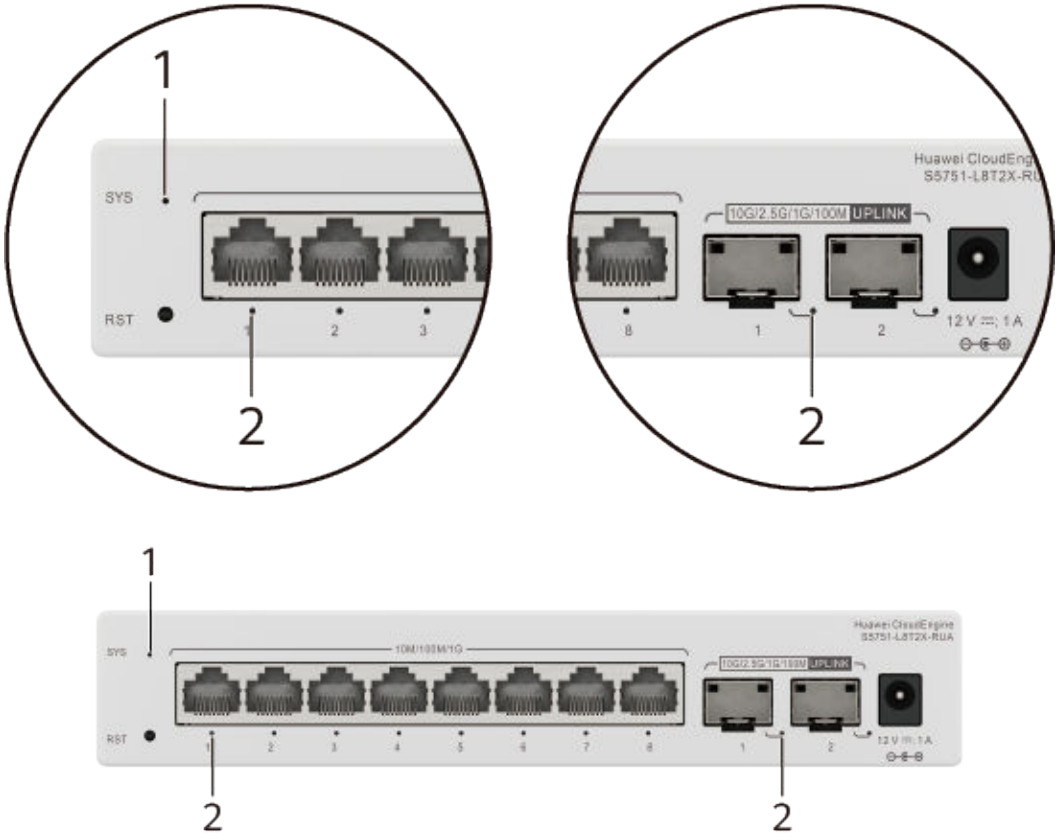
Indicators and Buttons

Figure 4-42 Indicators on the device



NOTE

The S5751-L8T2X-RUA model is used as an example.

Table 4-106 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.

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No.	Indicator	Name	Color	Status	Description
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	-	Service port indicator	-	Off	The port is not connected.
			Green	Steady on	The port is connected.
			Green	Blinking	The port is sending or receiving data.

Power Supply System

The remote unit is powered by the power adapter delivered with the device.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-107 Technical specifications of the S5751-L8T2J-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 35 mm x 195 mm x 130 mm (1.38 in. x 7.68 in. x 5.12 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 35 mm x 195 mm x 136 mm (1.38 in. x 7.68 in. x 5.35 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	93.0 mm x 285.0 mm x 190.0 mm (3.66 in. x 11.22 in. x 7.48 in.)
Chassis height [U]	0.8 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.83 kg (1.83 lb)
Weight with packaging [kg(lb)]	1.28 kg (2.82 lb)
Typical power consumption [W]	10.52 W
Typical heat dissipation [BTU/hour]	35.90 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 7.46 W (body) • 10.93 W (device + adapter)
Maximum heat dissipation [BTU/hour]	• 25.45 (device) • 37.29 (device + adapter)
Static power consumption [W]	4.85 W
MTBF [years]	102.91 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5906 ft.) When the power adapter AD-120100E0W (Europe) (part number: 02221933) is used, the long-term operating temperature of the device ranges from –5°C to +40°C (23°F to 104°F).
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter

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Item	Specification
Rated input voltage [V]	Power adapter HW-120100C9W (02221791) for China: ● Power adapter input: 170 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100E0W (02221933) for Europe: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100B0W (02221936) for the UK: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100U0W (02221932) for the USA: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC
Input voltage range [V]	Power adapter HW-120100C9W (02221791) for China: - Power adapter input: 170 V AC to 270 V AC; 47 Hz to 63 Hz Power adapter AD-120100E0W (02221933) for Europe: - Power adapter input: 90 V AC to 264 V AC; 45 Hz to 65 Hz Power adapter AD-120100B0W (02221936) for the UK: - Power adapter input: 90 V AC to 264 V AC; 45 Hz to 65 Hz Power adapter AD-120100U0W (02221932) for the USA: - Power adapter input: 90 V AC to 264 V AC; 47 Hz to 63 Hz
Maximum input current [A]	1 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported

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Item	Specification
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±4 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.2 S5751-L8T2X-RUA

Overview

Table 4-108 Basic information about the S5751-L8T2X-RUA

Item	Details
Description	S5751-L8T2X-RUA (8*10/100/1000BASE-T ports, 2*10GE SFP+ ports, with 1*AC power adapter, Fanless)
Part Number	98012462
Model	S5751-L8T2X-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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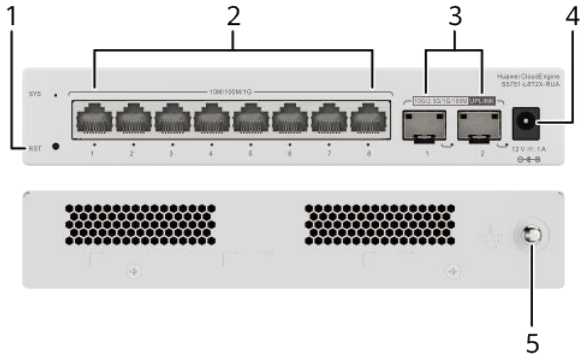
Components

Figure 4-43 S5751-L8T2X-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	Eight 10/100/1000BASE-T ports
3	Two 10GE SFP+ optical ports **NOTE** The ports are uplink ports.	4	Power adapter socket **NOTE** Use the power adapter (12 V DC, 1 A) delivered with the device.
5	Ground screw	-	-

Ports

Table 4-109 Ports on the S5751-L8T2X-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	Ethernet cable

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **PEN remote optical modules**

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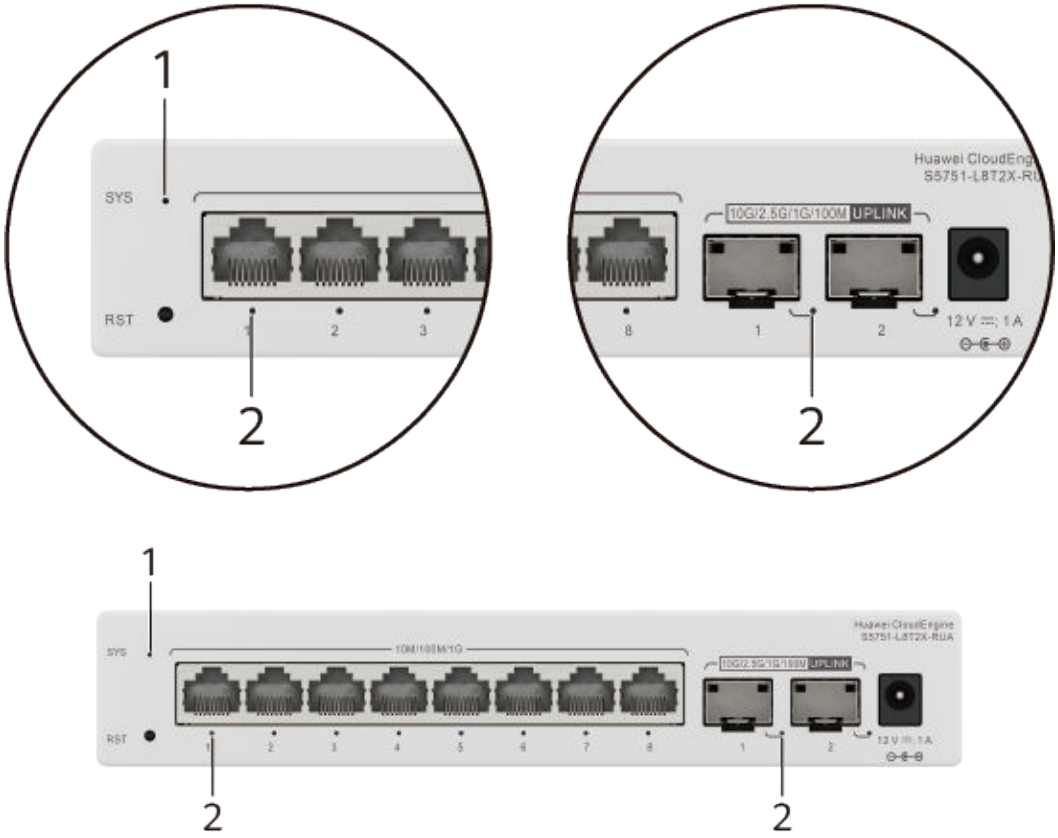
Indicators and Buttons

Figure 4-44 Indicators on the device



NOTE

The S5751-L8T2X-RUA model is used as an example.

Table 4-110 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.

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No.	Indicator	Name	Color	Status	Description
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	-	Service port indicator	-	Off	The port is not connected.
			Green	Steady on	The port is connected.
			Green	Blinking	The port is sending or receiving data.

Power Supply System

The remote unit is powered by the power adapter delivered with the device.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-111 Technical specifications of the S5751-L8T2X-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 35 mm x 195 mm x 130 mm (1.38 in. x 7.68 in. x 5.12 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 35 mm x 195 mm x 136 mm (1.38 in. x 7.68 in. x 5.35 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	93.0 mm x 285.0 mm x 190.0 mm (3.66 in. x 11.22 in. x 7.48 in.)
Chassis height [U]	0.8 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.83 kg (1.83 lb)
Weight with packaging [kg(lb)]	1.28 kg (2.82 lb)
Typical power consumption [W]	10.52 W
Typical heat dissipation [BTU/hour]	35.90 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 7.46 W (body) • 10.93 W (device + adapter)
Maximum heat dissipation [BTU/hour]	• 25.45 (device) • 37.29 (device + adapter)
Static power consumption [W]	4.85 W
MTBF [years]	102.91 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5906 ft.) When the power adapter AD-120100E0W (Europe) (part number: 02221933) is used, the long-term operating temperature of the device ranges from –5°C to +40°C (23°F to 104°F).
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter

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Item	Specification
Rated input voltage [V]	Power adapter HW-120100C9W (China), part number 02221791: ● Power adapter input: 170 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100E0W (Europe), part number 02221933: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100B0W (UK), part number 02221936: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100U0W (USA), part number 02221932: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC
Input voltage range [V]	Power adapter HW-120100C9W (China), part number 02221791: - Power adapter input: 170 V AC to 270 V AC; 47 Hz to 63 Hz Power adapter AD-120100E0W (Europe), part number 02221933: - Power adapter input: 90 V AC to 264 V AC; 45 Hz to 65 Hz Power adapter AD-120100B0W (UK), part number 02221936: - Power adapter input: 90 V AC to 264 V AC; 45 Hz to 65 Hz Power adapter AD-120100U0W (USA), part number 02221932: - Power adapter input: 90 V AC to 264 V AC; 47 Hz to 63 Hz
Maximum input current [A]	1 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported

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Item	Specification
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±4 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.3 S5751-L8P2J-RUA

Overview

Table 4-112 Basic information about the S5751-L8P2J-RUA

Item	Details
Description	S5751-L8P2J-RUA (8*10/100/1000BASE-T ports (PoE+), 2*2.5GE SFP ports, 128 W PoE, with 1*220 V AC power adapter, Fanless)
Part Number	98012487
Model	S5751-L8P2J-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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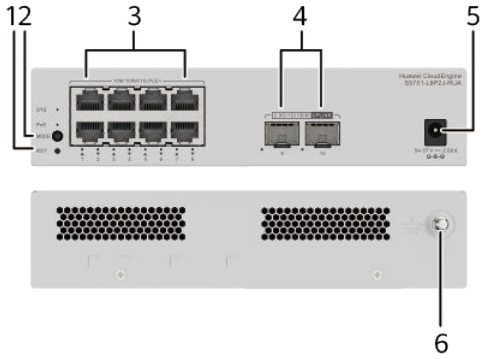
Components

Figure 4-45 S5751-L8P2J-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button
3	Eight 10/100/1000BASE-T PoE+ ports	4	Two 2.5GE SFP optical ports **NOTE** The ports are uplink ports.
5	Power adapter socket **NOTE** Use the power adapter (input: 220 V AC; output: 54 V DC, 2.78A) delivered with the device.	6	Ground screw

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Ports

Table 4-113 Ports on the S5751-L8P2J-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
2.5GE SFP optical port	SFP	A 2.5GE SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **PEN remote optical modules**

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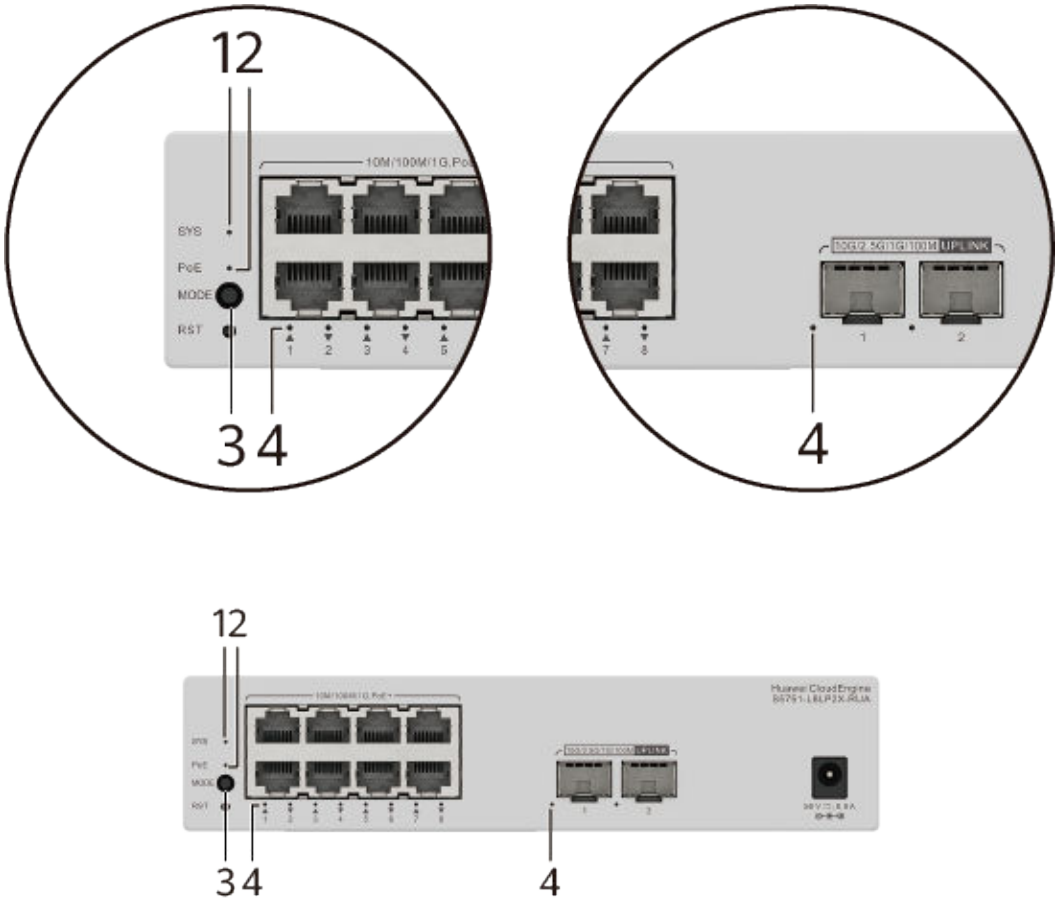
Indicators and Buttons

Figure 4-46 Indicators on the device



NOTE

The S5751-L8LP2X-RUA model is used as an example.

Table 4-114 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.

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No.	Indicator	Name	Color	Status	Description
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-115**.		

Table 4-115 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

Table 4-116 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	128 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-117 Technical specifications of the S5751-L8P2J-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 195 mm x 160 mm (1.72 in. x 7.68 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 195 mm x 166.2 mm (1.72 in. x 7.68 in. x 6.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	116.0 mm x 285.0 mm x 300.0 mm (4.57 in. x 11.22 in. x 11.81 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.2 kg (2.65 lb)
Weight with packaging [kg(lb)]	2.36 kg (5.2 lb)
Typical power consumption [W]	16.74 W
Typical heat dissipation [BTU/hour]	57.13 BTU/hour
Maximum power consumption [W]	• Without PoE: 14.60 W (device), 17.59 W (device + adapter) • Full PoE load: 161.02 W (PoE: 128 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 49.82 (device), 60.02 (device + adapter) • Full PoE load: 549.42
Static power consumption [W]	7.15 W
MTBF [years]	84.12 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 170 V AC to 240 V AC; 50/60 Hz Power adapter output: 54 V DC
Input voltage range [V]	Power adapter input: 170 V AC to 264 V AC; 47 Hz to 63 Hz
Maximum input current [A]	2.78 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	±4 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None

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Item	Specification
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.4 S5751-L8P2X-RUA

Overview

Table 4-118 Basic information about the S5751-L8P2X-RUA

Item	Details
Description	S5751-L8P2X-RUA (8*10/100/1000BASE-T ports (PoE+), 2*10GE SFP+ ports, 128 W PoE, with 1*220 V AC power adapter, Fanless)
Part Number	98012486
Model	S5751-L8P2X-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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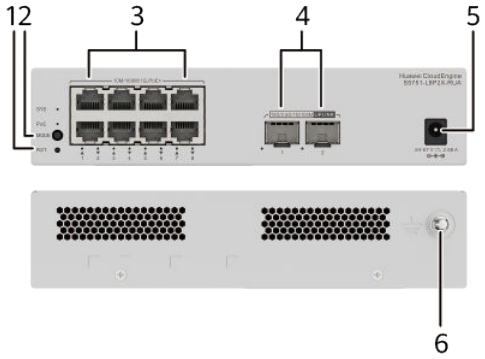
Components

Figure 4-47 S5751-L8P2X-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button
3	Eight 10/100/1000BASE-T PoE+ ports	4	Two 10GE SFP+ optical ports **NOTE** The ports are uplink ports.
5	Power adapter socket **NOTE** Use the power adapter (input: 220 V AC; output: 54 V DC, 2.78A) delivered with the device.	6	Ground screw

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Ports

Table 4-119 Ports on the S5751-L8P2X-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **PEN remote optical modules**

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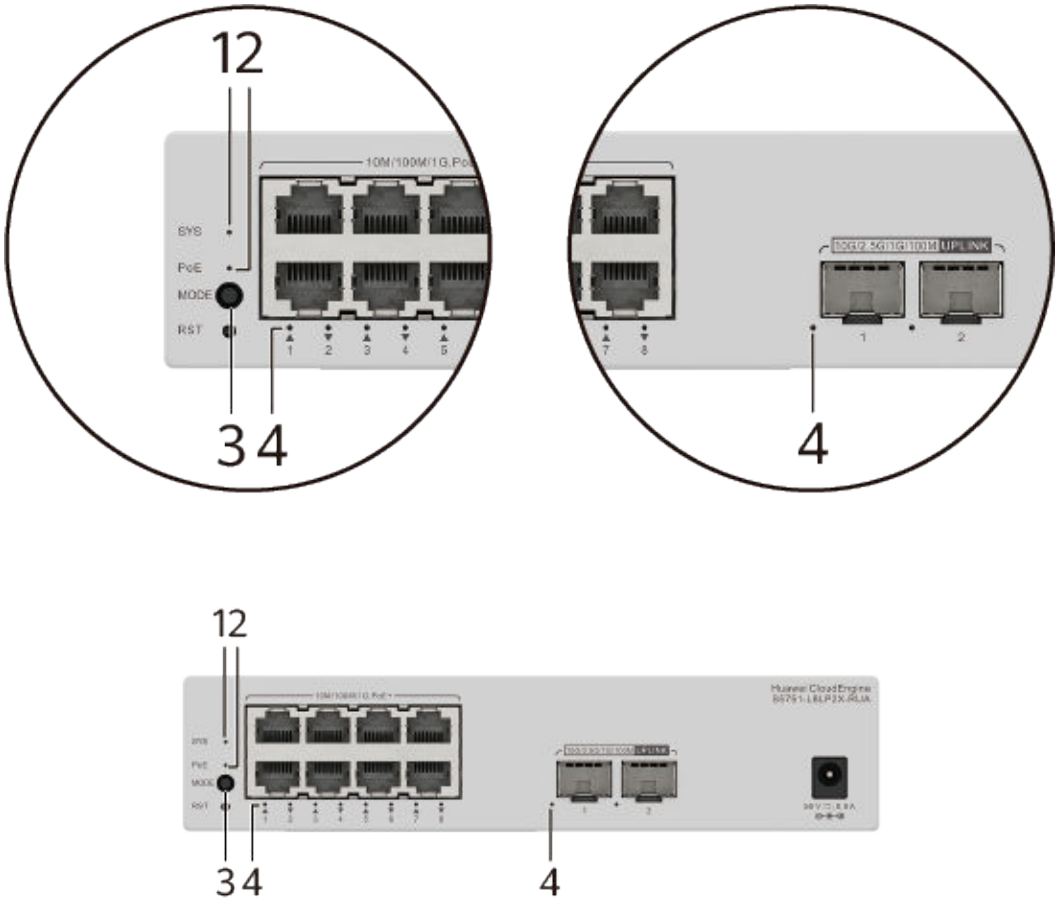
Indicators and Buttons

Figure 4-48 Indicators on the device



NOTE

The S5751-L8LP2X-RUA model is used as an example.

Table 4-120 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.

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No.	Indicator	Name	Color	Status	Description
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-121**.		

Table 4-121 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

Table 4-122 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	128 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-123 Technical specifications of the S5751-L8P2X-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 195 mm x 160 mm (1.72 in. x 7.68 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 195 mm x 166.2 mm (1.72 in. x 7.68 in. x 6.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	116.0 mm x 285.0 mm x 300.0 mm (4.57 in. x 11.22 in. x 11.81 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.2 kg (2.65 lb)
Weight with packaging [kg(lb)]	2.36 kg (5.2 lb)
Typical power consumption [W]	16.74 W
Typical heat dissipation [BTU/hour]	57.13 BTU/hour
Maximum power consumption [W]	• Without PoE: 14.60 W (device), 17.59 W (device + adapter) • Full PoE load: 161.02 W (PoE: 128 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 49.82 (device), 60.02 (device + adapter) • Full PoE load: 549.42
Static power consumption [W]	7.15 W
MTBF [years]	84.12 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 170 V AC to 240 V AC; 50/60 Hz Power adapter output: 54 V DC
Input voltage range [V]	Power adapter input: 170 V AC to 264 V AC; 47 Hz to 63 Hz
Maximum input current [A]	2.78 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	±4 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None

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Item	Specification
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.5 S5751-L8LP2J-RUA

Overview

Table 4-124 Basic information about the S5751-L8LP2J-RUA

Item	Details
Description	S5751-L8LP2J-RUA (8*10/100/1000BASE-T ports (PoE+), 2*2.5GE SFP ports, 32 W PoE, with 1*AC power adapter, Fanless)
Part Number	98012485
Model	S5751-L8LP2J-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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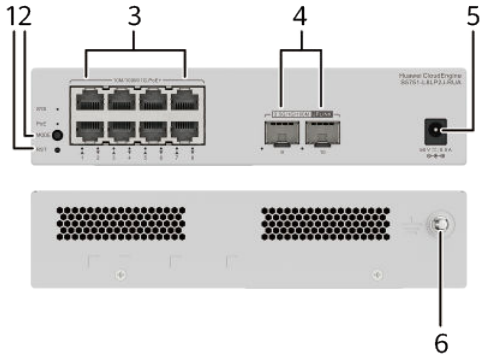
Components

Figure 4-49 S5751-L8LP2J-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button
3	Eight 10/100/1000BASE-T PoE+ ports	4	Two 2.5GE SFP optical ports **NOTE** The ports are uplink ports.
5	Power adapter socket **NOTE** Use the power adapter (56 V DC, 0.9 A) delivered with the device.	6	Ground screw

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Ports

Table 4-125 Ports on the S5751-L8LP2J-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
2.5GE SFP optical port	SFP	A 2.5GE SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **PEN remote optical modules**

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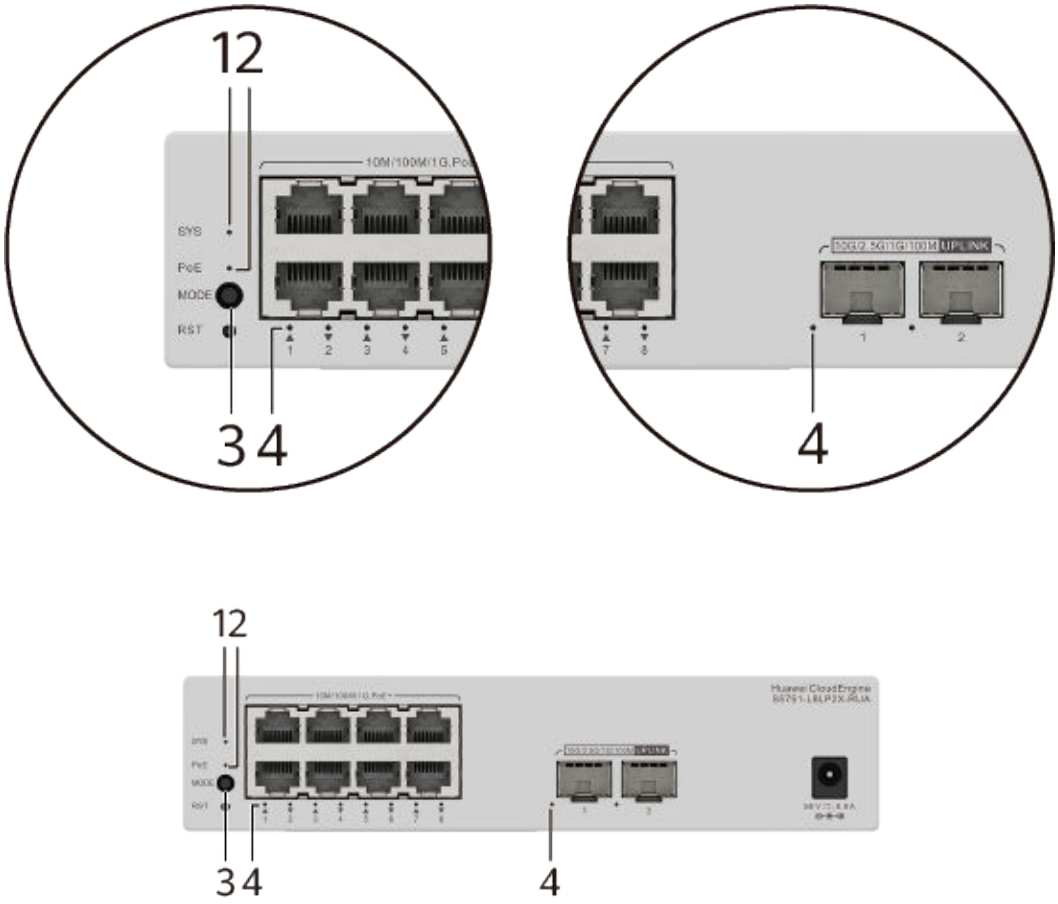
Indicators and Buttons

Figure 4-50 Indicators on the device



NOTE

The S5751-L8LP2X-RUA model is used as an example.

Table 4-126 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.

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No.	Indicator	Name	Color	Status	Description
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-127**.		

Table 4-127 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

Table 4-128 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	32 W	• 802.3af (15.4 W per port): 2 • 802.3at (30 W per port): 1

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-129 Technical specifications of the S5751-L8LP2J-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 195 mm x 160 mm (1.72 in. x 7.68 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 195 mm x 166.2 mm (1.72 in. x 7.68 in. x 6.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	116.0 mm x 285.0 mm x 300.0 mm (4.57 in. x 11.22 in. x 11.81 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.16 kg (2.56 lb)
Weight with packaging [kg(lb)]	2.11 kg (4.65 lb)
Typical power consumption [W]	13.14 W
Typical heat dissipation [BTU/hour]	44.82 BTU/hour
Maximum power consumption [W]	• Without PoE: 13.60 W (device), 15.59 W (device + adapter) • Full PoE load: 55.82 W (PoE: 32 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 46.40 (device), 53.19 (device + adapter) • Full PoE load: 190.46
Static power consumption [W]	7.15 W
MTBF [years]	84.12 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 56 V DC
Input voltage range [V]	Power adapter input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.9 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None

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Item	Specification
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.6 S5751-L8LP2X-RUA

Overview

Table 4-130 Basic information about the S5751-L8LP2X-RUA

Item	Details
Description	S5751-L8LP2X-RUA (8*10/100/1000BASE-T ports (PoE+), 2*10GE SFP+ ports, 32 W PoE, with 1*AC power adapter, Fanless)
Part Number	98012484
Model	S5751-L8LP2X-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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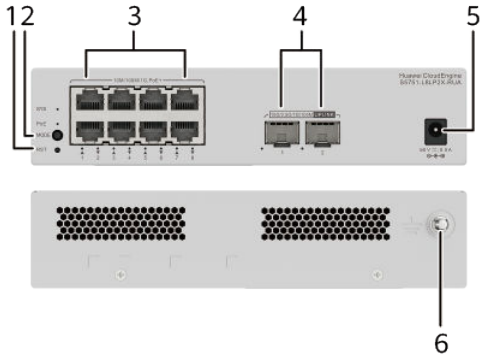
Components

Figure 4-51 S5751-L8LP2X-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button
3	Eight 10/100/1000BASE-T PoE+ ports	4	Two 10GE SFP+ optical ports **NOTE** The ports are uplink ports.
5	Power adapter socket **NOTE** Use the power adapter (56 V DC, 0.9 A) delivered with the device.	6	Ground screw

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Ports

Table 4-131 Ports on the S5751-L8LP2X-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **PEN remote optical modules**

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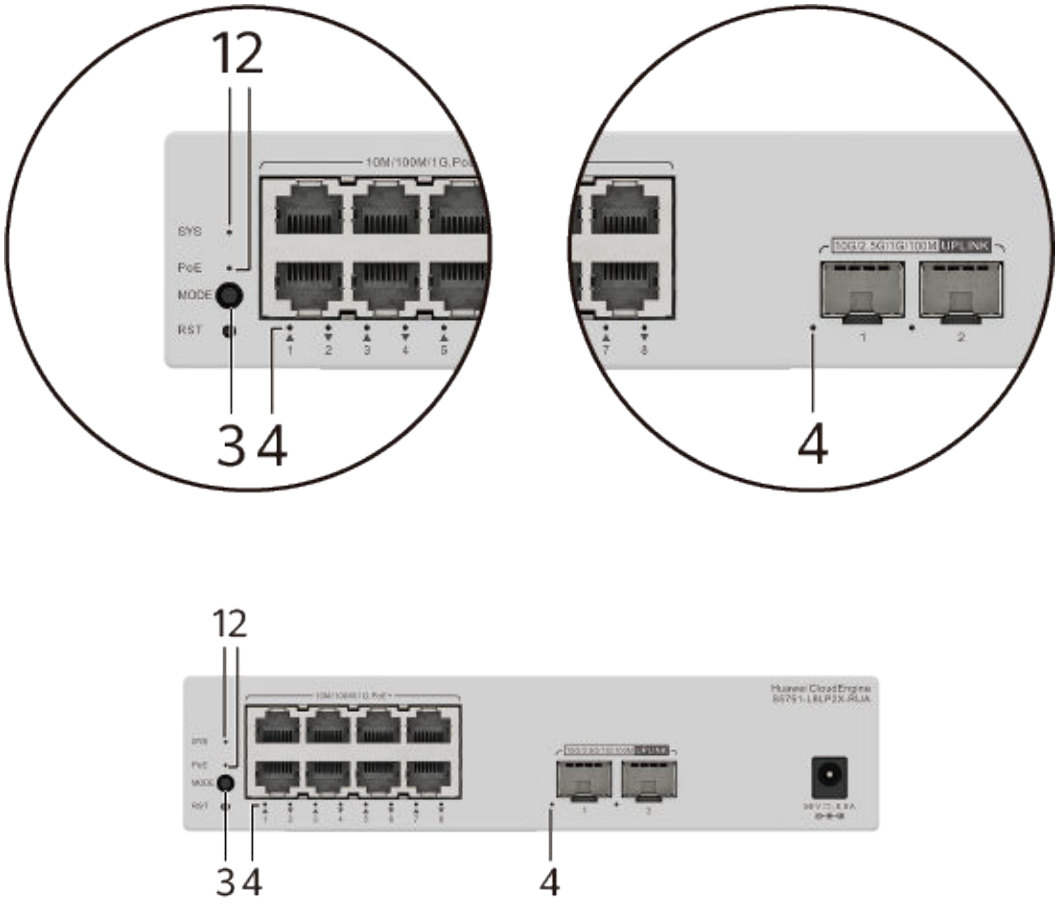
Indicators and Buttons

Figure 4-52 Indicators on the device



NOTE

The S5751-L8LP2X-RUA model is used as an example.

Table 4-132 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.

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No.	Indicator	Name	Color	Status	Description
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-133**.		

Table 4-133 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

Table 4-134 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	32 W	• 802.3af (15.4 W per port): 2 • 802.3at (30 W per port): 1

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-135 Technical specifications of the S5751-L8LP2X-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 195 mm x 160 mm (1.72 in. x 7.68 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 195 mm x 166.2 mm (1.72 in. x 7.68 in. x 6.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	116.0 mm x 285.0 mm x 300.0 mm (4.57 in. x 11.22 in. x 11.81 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.16 kg (2.56 lb)
Weight with packaging [kg(lb)]	2.11 kg (4.65 lb)
Typical power consumption [W]	13.14 W
Typical heat dissipation [BTU/hour]	44.82 BTU/hour
Maximum power consumption [W]	• Without PoE: 13.60 W (device), 15.59 W (device + adapter) • Full PoE load: 55.82 W (PoE: 32 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 46.40 (device)/53.19 (device + adapter) • Full PoE load: 190.46
Static power consumption [W]	7.15 W
MTBF [years]	84.12 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 100–240 V AC; 50/60 Hz Power adapter output: 56 V DC
Input voltage range [V]	Power adapter input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.9 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None

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Item	Specification
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.7 S5751-L8T2HJ-RUA

Overview

Table 4-136 Basic information about the S5751-L8T2HJ-RUA

Item	Details
Description	S5751-L8T2HJ-RUA (8*10/100/1000BASE-T ports, 2*Hybrid 2.5G SFP ports, PoE via hybrid cable, Fanless)
Part Number	98012491
Model	S5751-L8T2HJ-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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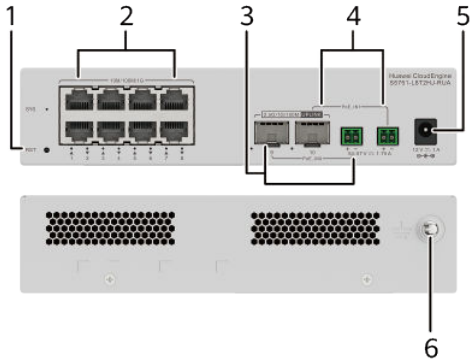
Components

Figure 4-53 S5751-L8T2HJ-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	Eight 10/100/1000BASE-T ports
3	PoE_IN0 (combination of the 2.5GE SFP hybrid optical-electrical port and PoE_IN port) **NOTE** • The hybrid optical-electrical port is an uplink port. • Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used. • Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.	4	PoE_IN1 (combination of the 2.5GE SFP hybrid optical-electrical port and PoE_IN port) **NOTE** • The hybrid optical-electrical port is an uplink port. • Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used. • Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.

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5	Power adapter socket **NOTE** The power adapter is not delivered with the device by default and can be purchased separately. Part number: • 02221791 (China) • 02221933 (Europe) • 02221936 (UK) • 02221932 (USA)	6	Ground screw

Ports

Table 4-137 Ports on the S5751-L8T2HJ-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
2.5GE hybrid optical-electrical port	SFP	A 2.5GE hybrid optical-electrical port can send and receive data at 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE SFP hybrid modules** • **2.5GE eSFP optical modules** • **2.5GE eSFP hybrid modules** • **PEN remote optical modules** • **First-generation hybrid cable** • **Second-generation hybrid cable**
PoE-in port	1×2-Pin Phoenix Connector	PoE-in port can receive PoE power from a central switch through a hybrid cable.	• **First-generation hybrid cable** • **Second-generation hybrid cable**

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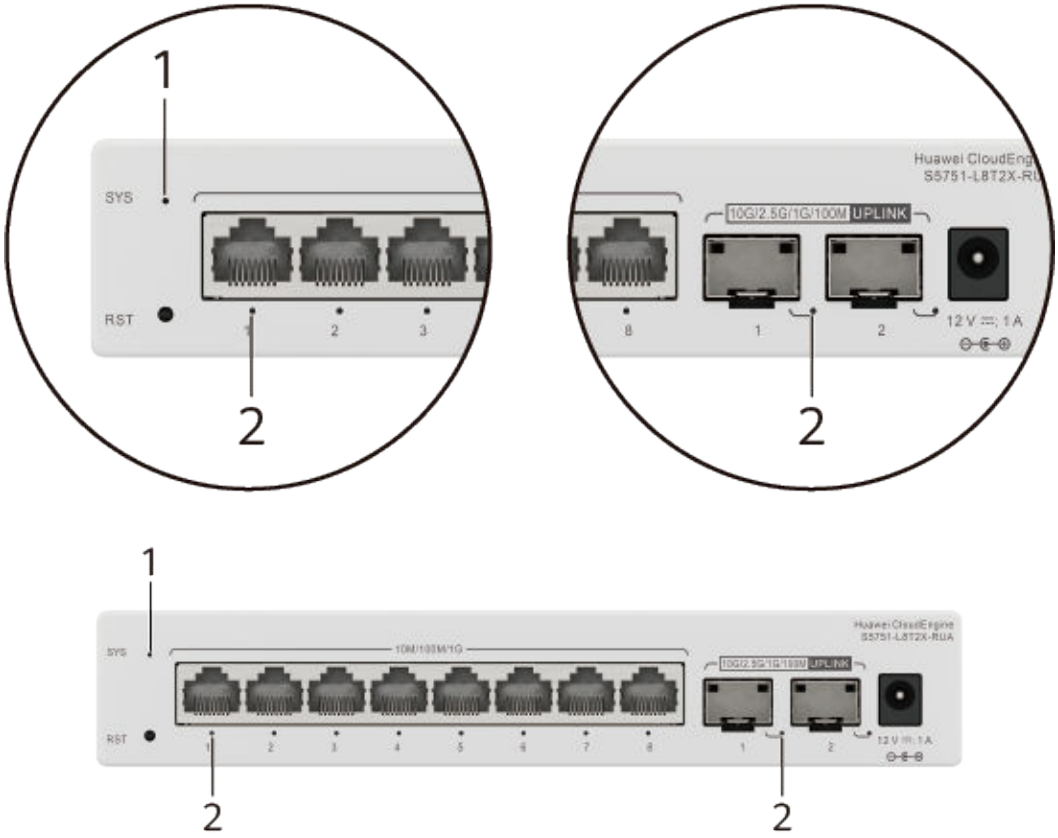
Indicators and Buttons

Figure 4-54 Indicators on the device



NOTE

The S5751-L8T2X-RUA model is used as an example.

Table 4-138 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.

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No.	Indicator	Name	Color	Status	Description
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	-	Service port indicator	-	Off	The port is not connected.
			Green	Steady on	The port is connected.
			Green	Blinking	The port is sending or receiving data.

Power Supply System

The remote unit supports the following power supply modes:

- Powered by an external power adapter
- Powered by a central switch using hybrid cables
  - Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used.
  - Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.

When different power supply modes are used at the same time, the system preferentially uses the power adapter for power supply. The hot backup mode is used between different power supply modes. The two uplink ports have no default priority, and the connection time is used as the priority.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-139 Technical specifications of the S5751-L8T2HJ-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 195 mm x 160 mm (1.72 in. x 7.68 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 195 mm x 166.2 mm (1.72 in. x 7.68 in. x 6.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	116.0 mm x 285.0 mm x 225.0 mm (4.57 in. x 11.22 in. x 8.86 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.2 kg (2.65 lb)
Weight with packaging [kg(lb)]	1.69 kg (3.73 lb)
Typical power consumption [W]	• 11.14 W (via a power adapter) • 13.14 W (via a hybrid cable)
Typical heat dissipation [BTU/hour]	• 34.12 (via a power adapter) • 44.82 (via a hybrid cable)
Maximum power consumption [W]	• Power adapter: 10.00 W (device), 11.87 W (device + adapter) • Hybrid cable: 17.57 W
Maximum heat dissipation [BTU/hour]	• Power adapter: 34.12 (device), 40.49 (device + adapter) • Hybrid cable: 59.96
Static power consumption [W]	• 5.35 W (via a power adapter) • 7.15 W (via a hybrid cable)
MTBF [years]	84.12 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0

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Item	Specification
Number of power slots	0
Number of fans modules	0
Redundant power supply	The uplink hybrid optical-electrical port and adapter back up each other. The power adapter is not provided by default and can be purchased as required. 02221791: power adapter (China) 02221933: power adapter (Europe) 02221936: power adapter (UK) 02221932: power adapter (USA)
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5906 ft.) When the power adapter AD-120100E0W (Europe) (part number: 02221933) is used, the long-term operating temperature of the device ranges from –5°C to +40°C (23°F to 104°F).
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	• Power adapter • PoE_IN

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Item	Specification
Rated input voltage [V]	Power adapter HW-120100C9W (China), part number 02221791: ● Power adapter input: 170 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100E0W (Europe), part number 02221933: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100B0W (UK), part number 02221936: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100U0W (USA), part number 02221932: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Hybrid cable (PoE): 56 V DC
Input voltage range [V]	Power adapter HW-120100C9W (China), part number 02221791: - Power adapter input: 170 V AC to 270 V AC; 47 Hz to 63 Hz Power adapter AD-120100E0W (Europe), part number 02221933: - Power adapter input: 90 V AC to 264 V AC; 45 Hz to 65 Hz Power adapter AD-120100B0W (UK), part number 02221936: - Power adapter input: 90 V AC to 264 V AC; 45 Hz to 65 Hz Power adapter AD-120100U0W (USA), part number 02221932: - Power adapter input: 90 V AC to 264 V AC; 47 Hz to 63 Hz Hybrid cable (PoE): 54 V DC to 57 V DC
Maximum input current [A]	1 A
Memory	-

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Item	Specification
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±4 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.8 S5751-L8T2HX-RUA

Overview

Table 4-140 Basic information about the S5751-L8T2HX-RUA

Item	Details
Description	S5751-L8T2HX-RUA (8*10/100/1000BASE-T ports, 2*Hybrid 10GE SFP+ ports, PoE via hybrid cable, Fanless)
Part Number	98012490
Model	S5751-L8T2HX-RUA
First supported version	V200R024C00 V600R024C00

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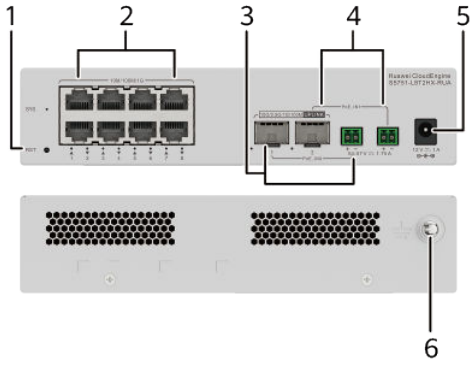
Item	Details
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-55 S5751-L8T2HX-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	Eight 10/100/1000BASE-T ports

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3	PoE_IN0 (combination of the 10GE SFP+ hybrid optical-electrical port and PoE_IN port) **NOTE** • The hybrid optical-electrical port is an uplink port. • Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used. • Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.	4	PoE_IN1 (combination of the 10GE SFP+ hybrid optical-electrical port and PoE_IN port) **NOTE** • The hybrid optical-electrical port is an uplink port. • Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used. • Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.
5	Power adapter socket **NOTE** The power adapter is not delivered with the device by default and can be purchased separately. Part number: • 02221791 (China) • 02221933 (Europe) • 02221936 (UK) • 02221932 (USA)	6	Ground screw

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Ports

Table 4-141 Ports on the S5751-L8T2HX-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE hybrid optical-electrical port	SFP+	A 10GE hybrid optical-electrical port can send and receive data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE SFP hybrid modules** • **2.5GE eSFP optical modules** • **2.5GE eSFP hybrid modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ hybrid modules** • **PEN remote optical modules** • **First-generation hybrid cable** • **Second-generation hybrid cable**

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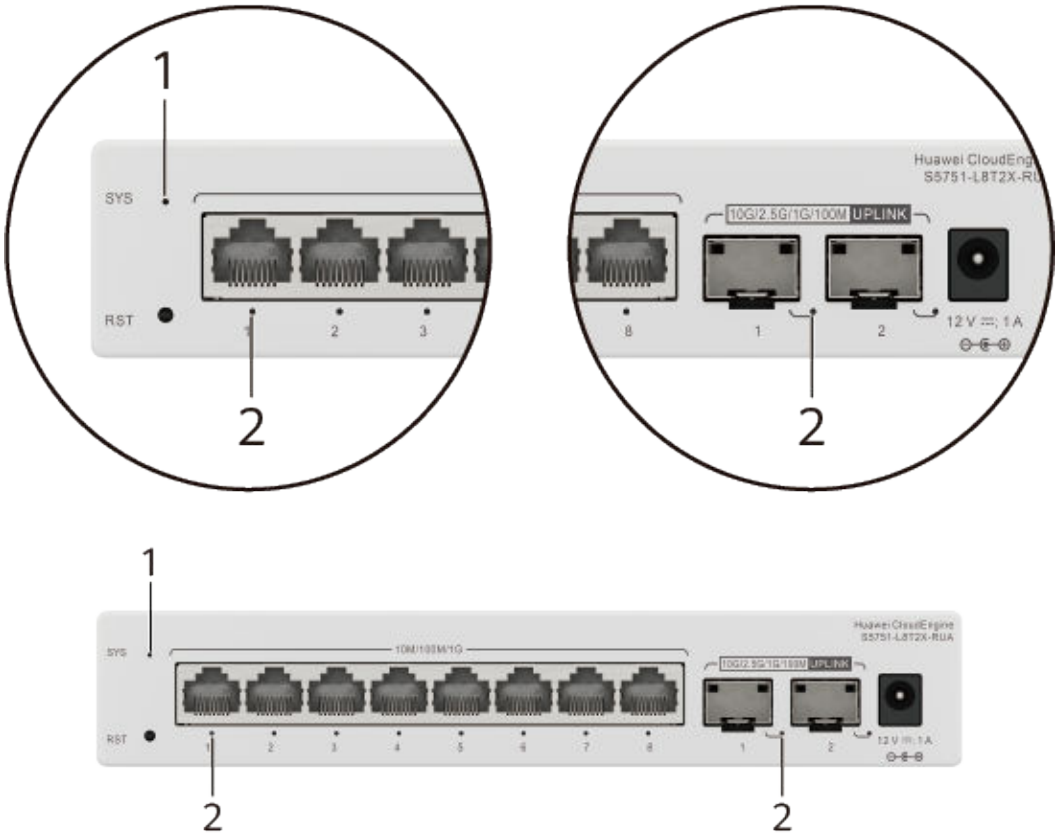
Port	Connector Type	Description	Available Components
PoE-in port	1×2-Pin Phoenix Connector	PoE-in port can receive PoE power from a central switch through a hybrid cable.	• First-generation hybrid cable • Second-generation hybrid cable

Indicators and Buttons

Figure 4-56 Indicators on the device



NOTE

The S5751-L8T2X-RUA model is used as an example.

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Table 4-142 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	-	Service port indicator	-	Off	The port is not connected.
			Green	Steady on	The port is connected.
			Green	Blinking	The port is sending or receiving data.

Power Supply System

The remote unit supports the following power supply modes:

- Powered by an external power adapter
- Powered by a central switch using hybrid cables
  - Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used.
  - Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.

When different power supply modes are used at the same time, the system preferentially uses the power adapter for power supply. The hot backup mode is used between different power supply modes. The two uplink ports have no default priority, and the connection time is used as the priority.

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Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-143 Technical specifications of the S5751-L8T2HX-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 195 mm x 160 mm (1.72 in. x 7.68 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 195 mm x 166.2 mm (1.72 in. x 7.68 in. x 6.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	116.0 mm x 285.0 mm x 225.0 mm (4.57 in. x 11.22 in. x 8.86 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.2 kg (2.65 lb)
Weight with packaging [kg(lb)]	1.69 kg (3.73 lb)
Typical power consumption [W]	• 11.14 W (via a power adapter) • 13.14 W (via a hybrid cable)
Typical heat dissipation [BTU/hour]	• 34.12 (via a power adapter) • 44.82 (via a hybrid cable)
Maximum power consumption [W]	• Power adapter: 10.00 W (device), 11.87 W (device + adapter) • Hybrid cable: 17.57 W
Maximum heat dissipation [BTU/hour]	• Power adapter: 34.12 (device), 40.49 (device + adapter) • Hybrid cable: 59.96
Static power consumption [W]	• 5.35 W (via a power adapter) • 7.15 W (via a hybrid cable)
MTBF [years]	84.12 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30

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Item	Specification
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	The uplink hybrid optical-electrical port and adapter back up each other. The power adapter is not provided by default and can be purchased as required. 02221791: power adapter (China) 02221933: power adapter (Europe) 02221936: power adapter (UK) 02221932: power adapter (USA)
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5906 ft.) When the power adapter AD-120100E0W (Europe) (part number: 02221933) is used, the long-term operating temperature of the device ranges from –5°C to +40°C (23°F to 104°F).
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	• Power adapter • PoE_IN

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Item	Specification
Rated input voltage [V]	Power adapter HW-120100C9W (China), part number 02221791: ● Power adapter input: 170 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100E0W (Europe), part number 02221933: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100B0W (UK), part number 02221936: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Power adapter AD-120100U0W (USA), part number 02221932: ● Power adapter input: 100 V AC to 240 V AC; 50/60 Hz ● Power adapter output: 12 V DC Hybrid cable (PoE): 56 V DC
Input voltage range [V]	Power adapter HW-120100C9W (China), part number 02221791: - Power adapter input: 170 V AC to 270 V AC; 47 Hz to 63 Hz Power adapter AD-120100E0W (Europe), part number 02221933: - Power adapter input: 90 V AC to 264 V AC; 45 Hz to 65 Hz Power adapter AD-120100B0W (UK), part number 02221936: - Power adapter input: 90 V AC to 264 V AC; 45 Hz to 65 Hz Power adapter AD-120100U0W (USA), part number 02221932: - Power adapter input: 90 V AC to 264 V AC; 47 Hz to 63 Hz Hybrid cable (PoE): 54 V DC to 57 V DC
Maximum input current [A]	1 A
Memory	-

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Item	Specification
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±4 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.9 S5751-L8P2HJ-RUA

Overview

Table 4-144 Basic information about the S5751-L8P2HJ-RUA

Item	Details
Description	S5751-L8P2HJ-RUA (8*10/100/1000BASE-T ports (PoE+), 2*Hybrid 2.5G SFP ports, PoE via hybrid cable, Fanless)
Part Number	98012493
Model	S5751-L8P2HJ-RUA
First supported version	V200R024C00 V600R024C00

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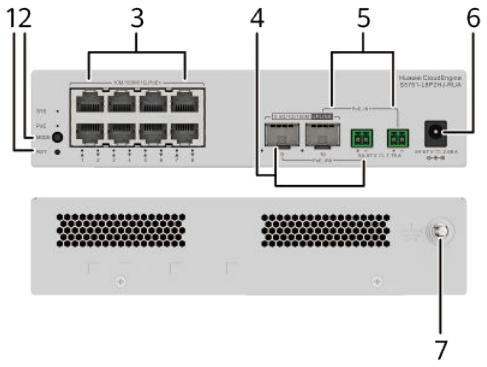
Item	Details
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-57 S5751-L8P2HJ-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button

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3	Eight 10/100/1000BASE-T PoE+ ports	4	PoE_IN0 (combination of the 2.5GE SFP hybrid optical-electrical port and PoE_IN port) **NOTE** • The hybrid optical-electrical port is an uplink port. • Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used. • Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.
5	PoE_IN1 (combination of the 2.5GE SFP hybrid optical-electrical port and PoE_IN port) **NOTE** • The hybrid optical-electrical port is an uplink port. • Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used. • Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.	6	Power adapter socket **NOTE** The power adapter is not delivered with the device by default and can be purchased separately. Part number: • 02221024 (black, 110V/220V) • 02222067 (white, 220V)
7	Ground screw	-	-

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Ports

Table 4-145 Ports on the S5751-L8P2HJ-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
2.5GE hybrid optical-electrical port	SFP	A 2.5GE hybrid optical-electrical port can send and receive data at 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE SFP hybrid modules** • **2.5GE eSFP optical modules** • **2.5GE eSFP hybrid modules** • **PEN remote optical modules** • **First-generation hybrid cable** • **Second-generation hybrid cable**

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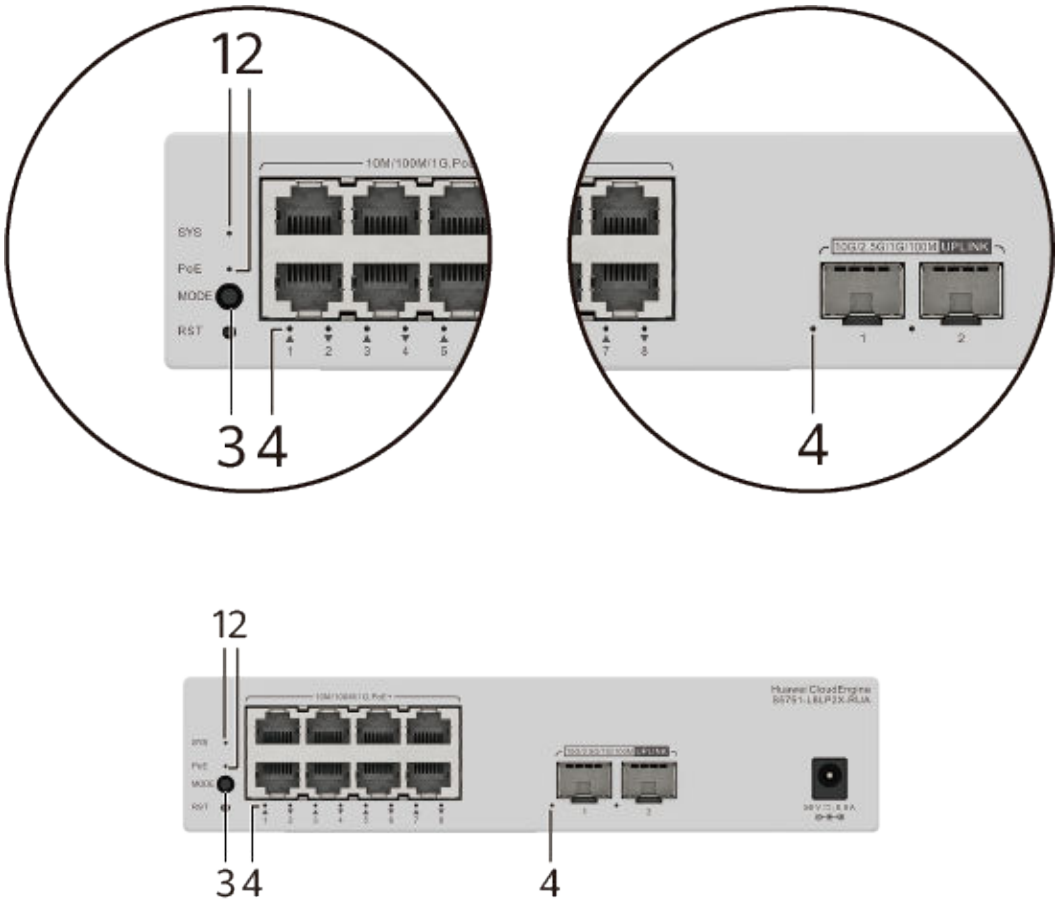
Port	Connector Type	Description	Available Components
PoE-in port	1×2-Pin Phoenix Connector	PoE-in port can receive PoE power from a central switch through a hybrid cable.	• First-generation hybrid cable • Second-generation hybrid cable

Indicators and Buttons

Figure 4-58 Indicators on the device



NOTE

The S5751-L8LP2X-RUA model is used as an example.

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Table 4-146 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-147**.		

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Table 4-147 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The remote unit supports the following power supply modes:

- Powered by an external power adapter
- Powered by a central switch using hybrid cables
  - Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used.
  - Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.

When different power supply modes are used at the same time, the system preferentially uses the power adapter for power supply. The hot backup mode is used between different power supply modes. The two uplink ports have no default priority, and the connection time is used as the priority.

The remote unit can provide PoE power for external PDs. The PoE power supply capability varies according to the power supply mode.

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Table 4-148 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)	Remark
Powered by an external power adapter	128 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4	-
Powered by a central switch	Forcible power supply disabled (default): max 50 W	• 802.3af (15.4 W per port): 3 • 802.3at (30 W per port): 1	• If no PD is connected to the remote unit, the central switch only supplies power to the remote unit. The PoE standard of the central switch must be 802.3at at least. • If PDs are connected to the remote unit, the central switch supplies power to the remote unit and the connected PDs. It is recommended that the output PoE standard of the central switch be 802.3bt and the output power be 90 W. If the 802.3at standard is used, the available power of the PDs connected to the remote unit may be insufficient.
	Forcible power supply enabled: max 70 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2	

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NOTICE

When the remote unit is powered by the central switch, the total power consumption of the remote unit and its connected PDs cannot exceed 71.3 W. If the power consumption exceeds 71.3 W, the remote unit and its connected PDs will be powered off and restarted.

When the remote unit is powered by the central switch, the maximum available PoE power in the preceding table can be provided only when the following conditions are met:

- When forcible power supply is disabled by default:
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
- When forcible power supply is enabled (using the **poe force-power port** command):
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
  - The central switch and the remote unit must be connected for a short distance (less than 8 m, with the line loss ignored). If the distance between the central switch and the remote unit is longer than 8 m and the PD is supplied with power based on the maximum power supply capability displayed on the central switch, the remote unit and the connected PD may be powered off and restarted.
  - The output voltage of the power module used by the central switch cannot be lower than 55.5 V.

The actual available PoE power provided by the remote unit is calculated based on the cabling distance between the central switch and the remote unit, the cabling distance between the remote unit and the connected PD, the maximum power consumption of the remote unit, the PoE output voltage of the central switch, and PoE class level output by the central switch.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-149 Technical specifications of the S5751-L8P2HJ-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 195 mm x 160 mm (1.72 in. x 7.68 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 195 mm x 166.2 mm (1.72 in. x 7.68 in. x 6.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	116.0 mm x 285.0 mm x 225.0 mm (4.57 in. x 11.22 in. x 8.86 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.21 kg (2.67 lb)
Weight with packaging [kg(lb)]	1.7 kg (3.75 lb)
Typical power consumption [W]	• 16.74 W (via a power adapter) • 13.14 W (via a hybrid cable)
Typical heat dissipation [BTU/hour]	• 57.13 (via a power adapter) • 44.82 (via a hybrid cable)
Maximum power consumption [W]	Power adapter: • Without PoE: 14.60 W (device), 17.59 W (device + adapter) • Full PoE load: 162.05 W (PoE: 128 W) 94.5 W PoE power over the hybrid cable: • Without PoE: 17.57 W • Full PoE load: 91.97 W (PoE: 70 W) 71.3 W PoE power over the hybrid cable: • Without PoE: 17.57 W • Full PoE load: 70.38 W (PoE: 50 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	Power adapter: ● Without PoE: 49.82 (device), 60.02 (device + adapter) ● Full PoE load: 552.93 94.5 W PoE power over the hybrid cable: ● Without PoE: 59.96 ● Full PoE load: 313.80 71.3 W PoE power over the hybrid cable: ● Without PoE: 59.96 ● Full PoE load: 240.16
Static power consumption [W]	7.15 W
MTBF [years]	84.12 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	The uplink hybrid optical-electrical port and adapter back up each other. The power adapter is not provided by default and can be purchased as required. 02222067: white, 220 V PoE power adapter 02221024: black, 110 V/220 V PoE power adapter
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	• Power adapter • PoE_IN
Rated input voltage [V]	Power adapter HW-560268D0D (02221024): • Power adapter input: 100 V AC to 240 V AC; 50/60 Hz • Power adapter output: 56 V DC Power adapter AD-540278D0D (02222067): • Power adapter input: 170 V AC to 240 V AC; 50/60 Hz • Power adapter output: 54 V DC Hybrid cable (PoE): 56 V DC
Input voltage range [V]	Power adapter HW-560268D0D (02221024): - Power adapter input: 90 V AC to 290 V AC; 47 Hz to 63 Hz Power adapter AD-540278D0D (02222067): - Power adapter input: 170 V AC to 264 V AC; 47 Hz to 63 Hz Hybrid cable (PoE): 54 V DC to 57 V DC
Maximum input current [A]	2.68 A
Memory	-
Flash memory	-
Console port	Not supported

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Item	Specification
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Power adapter HW-560268D0D (02221024): - ±6 kV in differential mode and ±6 kV in common mode Power adapter AD-540278D0D (02222067): - ±4 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.10 S5751-L8P2HX-RUA

Overview

Table 4-150 Basic information about the S5751-L8P2HX-RUA

Item	Details
Description	S5751-L8P2HX-RUA (8*10/100/1000BASE-T ports (PoE+), 2*Hybrid 10GE SFP+ ports, PoE via hybrid cable, Fanless)
Part Number	98012492
Model	S5751-L8P2HX-RUA

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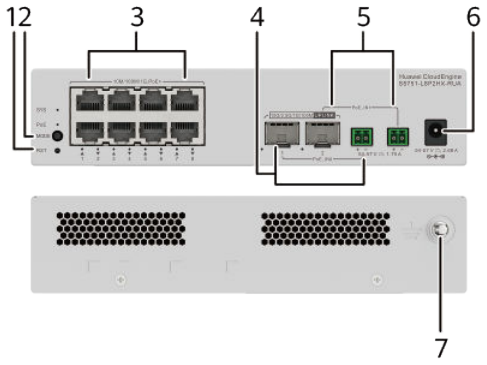
Item	Details
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-59 S5751-L8P2HX-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button

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3	Eight 10/100/1000BASE-T PoE+ ports	4	PoE_IN0 (combination of the 10GE SFP+ hybrid optical-electrical port and PoE_IN port) **NOTE** • The hybrid optical-electrical port is an uplink port. • Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used. • Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.
5	PoE_IN1 (combination of the 10GE SFP+ hybrid optical-electrical port and PoE_IN port) **NOTE** • The hybrid optical-electrical port is an uplink port. • Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used. • Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.	6	Power adapter socket **NOTE** The power adapter is not delivered with the device by default and can be purchased separately. Part number: • 02221024 (black, 110V/220V) • 02222067 (white, 220V)
7	Ground screw	-	-

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Ports

Table 4-151 Ports on the S5751-L8P2HX-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE hybrid optical-electrical port	SFP+	A 10GE hybrid optical-electrical port can send and receive data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE SFP hybrid modules** • **2.5GE eSFP optical modules** • **2.5GE eSFP hybrid modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ hybrid modules** • **PEN remote optical modules** • **First-generation hybrid cable** • **Second-generation hybrid cable**

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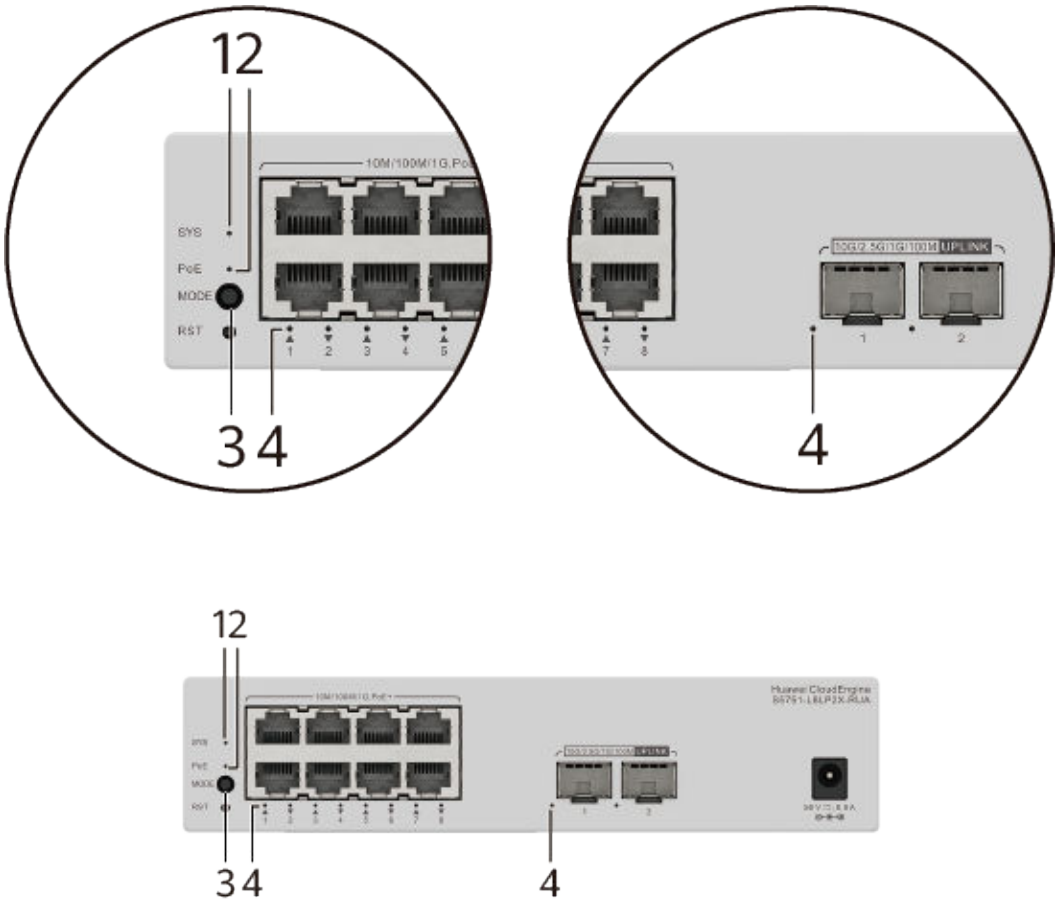
Port	Connector Type	Description	Available Components
PoE-in port	1×2-Pin Phoenix Connector	PoE-in port can receive PoE power from a central switch through a hybrid cable.	• First-generation hybrid cable • Second-generation hybrid cable

Indicators and Buttons

Figure 4-60 Indicators on the device



NOTE

The S5751-L8LP2X-RUA model is used as an example.

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Table 4-152 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-153**.		

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Table 4-153 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The remote unit supports the following power supply modes:

- Powered by an external power adapter
- Powered by a central switch using hybrid cables
  - Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used.
  - Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.

When different power supply modes are used at the same time, the system preferentially uses the power adapter for power supply. The hot backup mode is used between different power supply modes. The two uplink ports have no default priority, and the connection time is used as the priority.

The remote unit can provide PoE power for external PDs. The PoE power supply capability varies according to the power supply mode.

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Table 4-154 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)	Remark
Powered by an external power adapter	128 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4	-
Powered by a central switch	Forcible power supply disabled (default): max 50 W	• 802.3af (15.4 W per port): 3 • 802.3at (30 W per port): 1	• If no PD is connected to the remote unit, the central switch only supplies power to the remote unit. The PoE standard of the central switch must be 802.3at at least. • If PDs are connected to the remote unit, the central switch supplies power to the remote unit and the connected PDs. It is recommended that the output PoE standard of the central switch be 802.3bt and the output power be 90 W. If the 802.3at standard is used, the available power of the PDs connected to the remote unit may be insufficient.
	Forcible power supply enabled: max 70 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2	

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NOTICE

When the remote unit is powered by the central switch, the total power consumption of the remote unit and its connected PDs cannot exceed 71.3 W. If the power consumption exceeds 71.3 W, the remote unit and its connected PDs will be powered off and restarted.

When the remote unit is powered by the central switch, the maximum available PoE power in the preceding table can be provided only when the following conditions are met:

- When forcible power supply is disabled by default:
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
- When forcible power supply is enabled (using the **poe force-power port** command):
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
  - The central switch and the remote unit must be connected for a short distance (less than 8 m, with the line loss ignored). If the distance between the central switch and the remote unit is longer than 8 m and the PD is supplied with power based on the maximum power supply capability displayed on the central switch, the remote unit and the connected PD may be powered off and restarted.
  - The output voltage of the power module used by the central switch cannot be lower than 55.5 V.

The actual available PoE power provided by the remote unit is calculated based on the cabling distance between the central switch and the remote unit, the cabling distance between the remote unit and the connected PD, the maximum power consumption of the remote unit, the PoE output voltage of the central switch, and PoE class level output by the central switch.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-155 Technical specifications of the S5751-L8P2HX-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 195 mm x 160 mm (1.72 in. x 7.68 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 195 mm x 166.2 mm (1.72 in. x 7.68 in. x 6.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	116.0 mm x 285.0 mm x 225.0 mm (4.57 in. x 11.22 in. x 8.86 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.21 kg (2.67 lb)
Weight with packaging [kg(lb)]	1.7 kg (3.75 lb)
Typical power consumption [W]	• 16.74 W (via a power adapter) • 13.14 W (via a hybrid cable)
Typical heat dissipation [BTU/hour]	• 57.13 (via a power adapter) • 44.82 (via a hybrid cable)
Maximum power consumption [W]	Power adapter: • Without PoE: 14.60 W (device), 17.59 W (device + adapter) • Full PoE load: 162.05 W (PoE: 128 W) 94.5 W PoE power over the hybrid cable: • Without PoE: 17.57 W • Full PoE load: 91.97 W (PoE: 70 W) 71.3 W PoE power over the hybrid cable: • Without PoE: 17.57 W • Full PoE load: 70.38 W (PoE: 50 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	Power adapter: ● Without PoE: 49.82 (device), 60.02 (device + adapter) ● Full PoE load: 552.93 94.5 W PoE power over the hybrid cable: ● Without PoE: 59.96 ● Full PoE load: 313.80 71.3 W PoE power over the hybrid cable: ● Without PoE: 59.96 ● Full PoE load: 240.16
Static power consumption [W]	7.15 W
MTBF [years]	84.12 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	The uplink hybrid optical-electrical port and adapter back up each other. The power adapter is not provided by default and can be purchased as required. 02222067: white, 220 V PoE power adapter 02221024: black, 110 V/220 V PoE power adapter
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). Industry optical modules are required when the operating temperature exceeds 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	• Power adapter • PoE_IN
Rated input voltage [V]	Power adapter HW-560268D0D (02221024): • Power adapter input: 100 V AC to 240 V AC; 50/60 Hz • Power adapter output: 56 V DC Power adapter AD-540278D0D (02222067): • Power adapter input: 170 V AC to 240 V AC; 50/60 Hz • Power adapter output: 54 V DC Hybrid cable (PoE): 56 V DC
Input voltage range [V]	Power adapter HW-560268D0D (02221024): - Power adapter input: 90 V AC to 290 V AC; 47 Hz to 63 Hz Power adapter AD-540278D0D (02222067): - Power adapter input: 170 V AC to 264 V AC; 47 Hz to 63 Hz Hybrid cable (PoE): 54 V DC to 57 V DC
Maximum input current [A]	2.68 A
Memory	-

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Item	Specification
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Power adapter HW-560268D0D (02221024): - ±6 kV in differential mode and ±6 kV in common mode Power adapter AD-540278D0D (02222067): - ±4 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.11 S5751-L8P2PN2J-RUA

Overview

Table 4-156 Basic information about the S5751-L8P2PN2J-RUA

Item	Details
Description	S5751-L8P2PN2J-RUA (8*10/100/1000BASE-T ports (6*PoE+), 2*10/100/1000/2.5GBASE-T ports (PoE +), 2*2.5GE SFP ports, 128 W PoE, with 1*220 V AC power adapter, Fanless)

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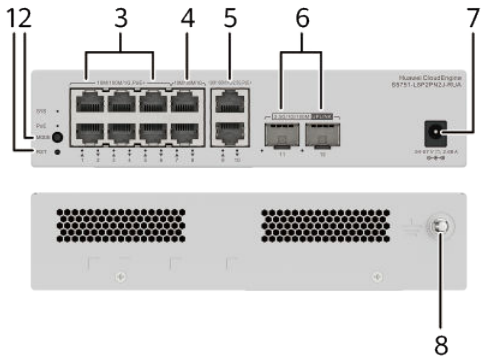
Item	Details
Part Number	98012494
Model	S5751-L8P2PN2J-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-61 S5751-L8P2PN2J-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button
3	Six 10/100/1000BASE-T PoE+ ports	4	Two 10/100/1000BASE-T ports
5	Two 10M/100M/1000M/2.5GE BASE-T PoE+ ports (multi-GE ports)	6	Two 2.5GE SFP optical ports **NOTE** The ports are uplink ports.

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7	Power adapter socket **NOTE** Use the power adapter (input: 220 V AC; output: 54 V DC, 2.78A) delivered with the device.	8	Ground screw

Ports

Table 4-157 Ports on the S5751-L8P2PN2J-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10M/100M/1G/2.5GE BASE-T port (multi-GE port)	RJ45	A 10M/100M/1G/2.5GE BASE-T PoE+ port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
2.5GE SFP optical port	SFP	A 2.5GE SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **PEN remote optical modules**

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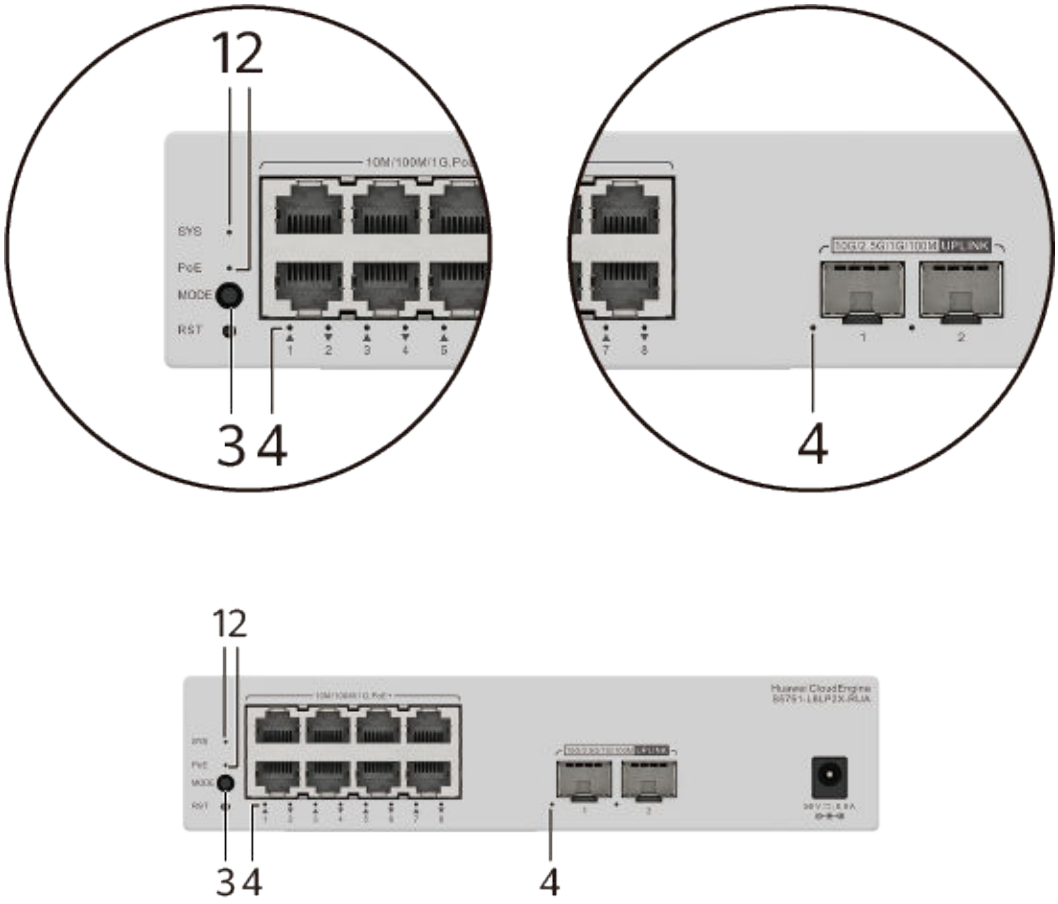
Indicators and Buttons

Figure 4-62 Indicators on the device



NOTE

The S5751-L8LP2X-RUA model is used as an example.

Table 4-158 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.

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No.	Indicator	Name	Color	Status	Description
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-159**.		

Table 4-159 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

Table 4-160 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	128 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-161 Technical specifications of the S5751-L8P2PN2J-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 195 mm x 160 mm (1.72 in. x 7.68 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 195 mm x 166.2 mm (1.72 in. x 7.68 in. x 6.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	116.0 mm x 285.0 mm x 300.0 mm (4.57 in. x 11.22 in. x 11.81 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.2 kg (2.65 lb)
Weight with packaging [kg(lb)]	2.38 kg (5.25 lb)
Typical power consumption [W]	16.74 W
Typical heat dissipation [BTU/hour]	57.13 BTU/hour
Maximum power consumption [W]	• Without PoE: 14.60 W (device), 17.91 W (device + adapter) • Full PoE load: 162.05 W (PoE: 128 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 49.82 (device), 61.11 (device + adapter) • Full PoE load: 552.93
Static power consumption [W]	7.15 W
MTBF [years]	83.69 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 170 V AC to 240 V AC; 50/60 Hz Power adapter output: 54 V DC
Input voltage range [V]	Power adapter input: 170 V AC to 264 V AC; 47 Hz to 63 Hz
Maximum input current [A]	2.78 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	±4 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None

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Item	Specification
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.12 S5751-L8P2PN2X-RUA

Overview

Table 4-162 Basic information about the S5751-L8P2PN2X-RUA

Item	Details
Description	S5751-L8P2PN2X-RUA (8*10/100/1000BASE-T ports (6*PoE+), 2*10/100/1000/2.5GBASE-T ports (PoE+), 2*10GE SFP+ ports, 128 W PoE, with 1*220 V AC power adapter, Fanless)
Part Number	98012495
Model	S5751-L8P2PN2X-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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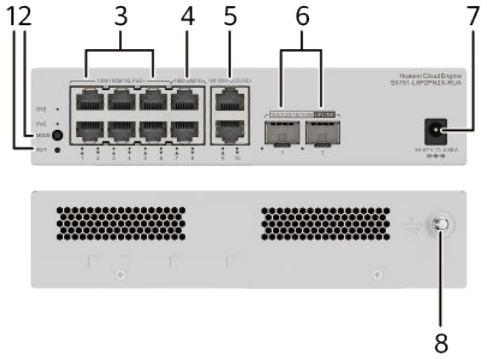
Components

Figure 4-63 S5751-L8P2PN2X-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button
3	Six 10/100/1000BASE-T PoE+ ports	4	Two 10/100/1000BASE-T ports
5	Two 10M/100M/1000M/2.5GE BASE-T PoE+ ports (multi-GE ports)	6	Two 10GE SFP+ optical ports **NOTE** The ports are uplink ports.
7	Power adapter socket **NOTE** Use the power adapter (input: 220 V AC; output: 54 V DC, 2.78A) delivered with the device.	8	Ground screw

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Ports

Table 4-163 Ports on the S5751-L8P2PN2X-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10M/100M/1G/2.5GE BASE-T port (multi-GE port)	RJ45	A 10M/100M/1G/2.5GE BASE-T PoE+ port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **PEN remote optical modules**

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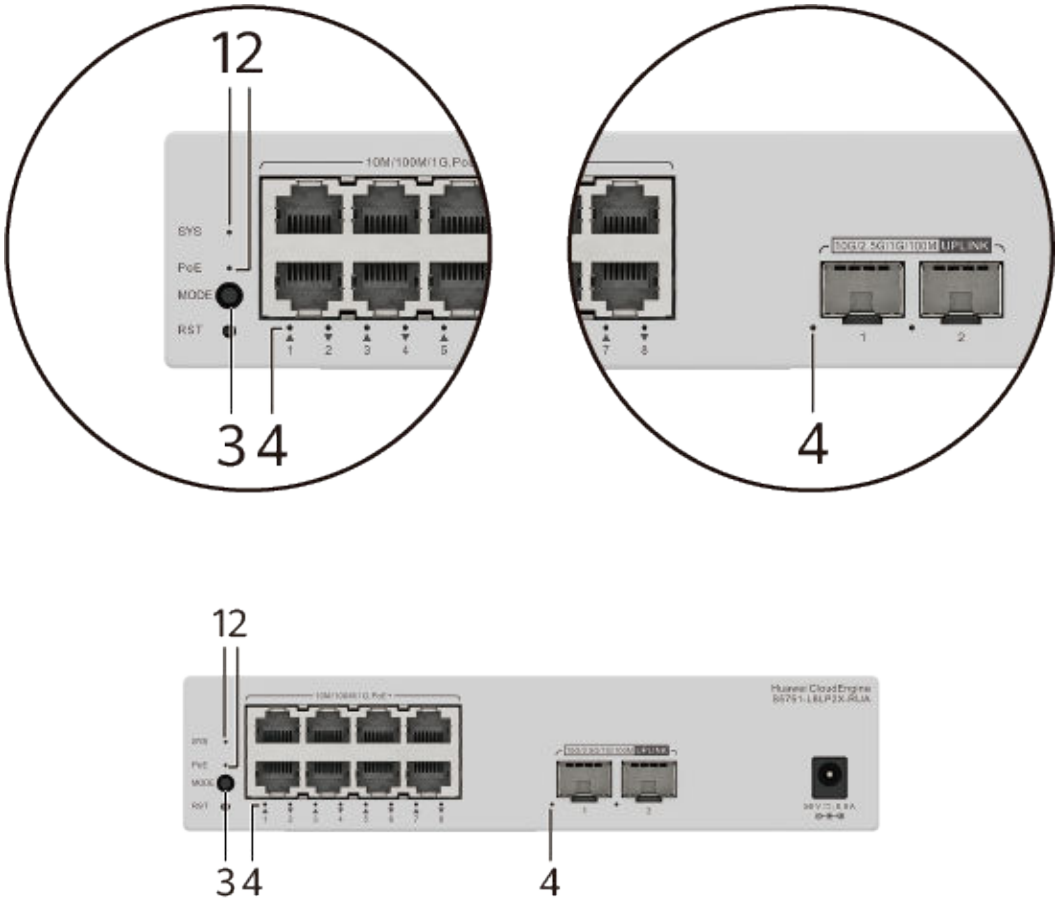
Indicators and Buttons

Figure 4-64 Indicators on the device



NOTE

The S5751-L8LP2X-RUA model is used as an example.

Table 4-164 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.

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No.	Indicator	Name	Color	Status	Description
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-165**.		

Table 4-165 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The remote unit uses the power adapter delivered with the device to supply power to the remote unit and the connected PDs.

Table 4-166 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
External power adapter	128 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-167 Technical specifications of the S5751-L8P2PN2X-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 195 mm x 160 mm (1.72 in. x 7.68 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 195 mm x 166.2 mm (1.72 in. x 7.68 in. x 6.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	116.0 mm x 285.0 mm x 300.0 mm (4.57 in. x 11.22 in. x 11.81 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.2 kg (2.65 lb)
Weight with packaging [kg(lb)]	2.38 kg (5.25 lb)
Typical power consumption [W]	16.74 W
Typical heat dissipation [BTU/hour]	57.13 BTU/hour
Maximum power consumption [W]	• Without PoE: 14.60 W (device), 17.91 W (device + adapter) • Full PoE load: 162.05 W (PoE: 128 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 49.82 (device)/61.11 (device + adapter) • Full PoE load: 552.93
Static power consumption [W]	7.15 W
MTBF [years]	83.69 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Power adapter
Rated input voltage [V]	Power adapter input: 170 V AC to 240 V AC; 50/60 Hz Power adapter output: 54 V DC
Input voltage range [V]	Power adapter input: 170 V AC to 264 V AC; 47 Hz to 63 Hz
Maximum input current [A]	2.78 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	±4 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None

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Item	Specification
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.13 S5751-L8P2PN2HX-RUA

Overview

Table 4-168 Basic information about the S5751-L8P2PN2HX-RUA

Item	Details
Description	S5751-L8P2PN2HX-RUA (8*10/100/1000BASE-T ports (6*PoE+), 2*10/100/1000/2.5GBASE-T ports (PoE+), 2*Hybrid 10GE SFP+ ports, PoE via hybrid cable, Fanless)
Part Number	98012496
Model	S5751-L8P2PN2HX-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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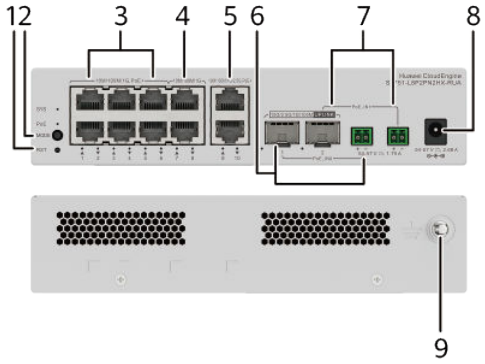
Components

Figure 4-65 S5751-L8P2PN2HX-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button
3	Six 10/100/1000BASE-T PoE+ ports	4	Two 10/100/1000BASE-T ports

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5	Two 10M/100M/1000M/2.5GE BASE-T PoE+ ports (multi-GE ports)	6	PoE_IN0 (combination of the 10GE SFP+ hybrid optical-electrical port and PoE_IN port) **NOTE** • The hybrid optical-electrical port is an uplink port. • Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used. • Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.
7	PoE_IN1 (combination of the 10GE SFP+ hybrid optical-electrical port and PoE_IN port) **NOTE** • The hybrid optical-electrical port is an uplink port. • Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used. • Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.	8	Power adapter socket **NOTE** The power adapter is not delivered with the device by default and can be purchased separately. Part number: • 02221024 (black, 110V/220V) • 02222067 (white, 220V)
9	Ground screw	-	-

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Ports

Table 4-169 Ports on the S5751-L8P2PN2HX-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10M/100M/1G/2.5GE BASE-T port (multi-GE port)	RJ45	A 10M/100M/1G/2.5GE BASE-T PoE+ port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
10GE hybrid optical-electrical port	SFP+	A 10GE hybrid optical-electrical port can send and receive data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s. It can receive PoE power from a central switch through a hybrid cable.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE SFP hybrid modules** • **2.5GE eSFP optical modules** • **2.5GE eSFP hybrid modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ hybrid modules** • **PEN remote optical modules** • **First-generation hybrid cable** • **Second-generation hybrid cable**

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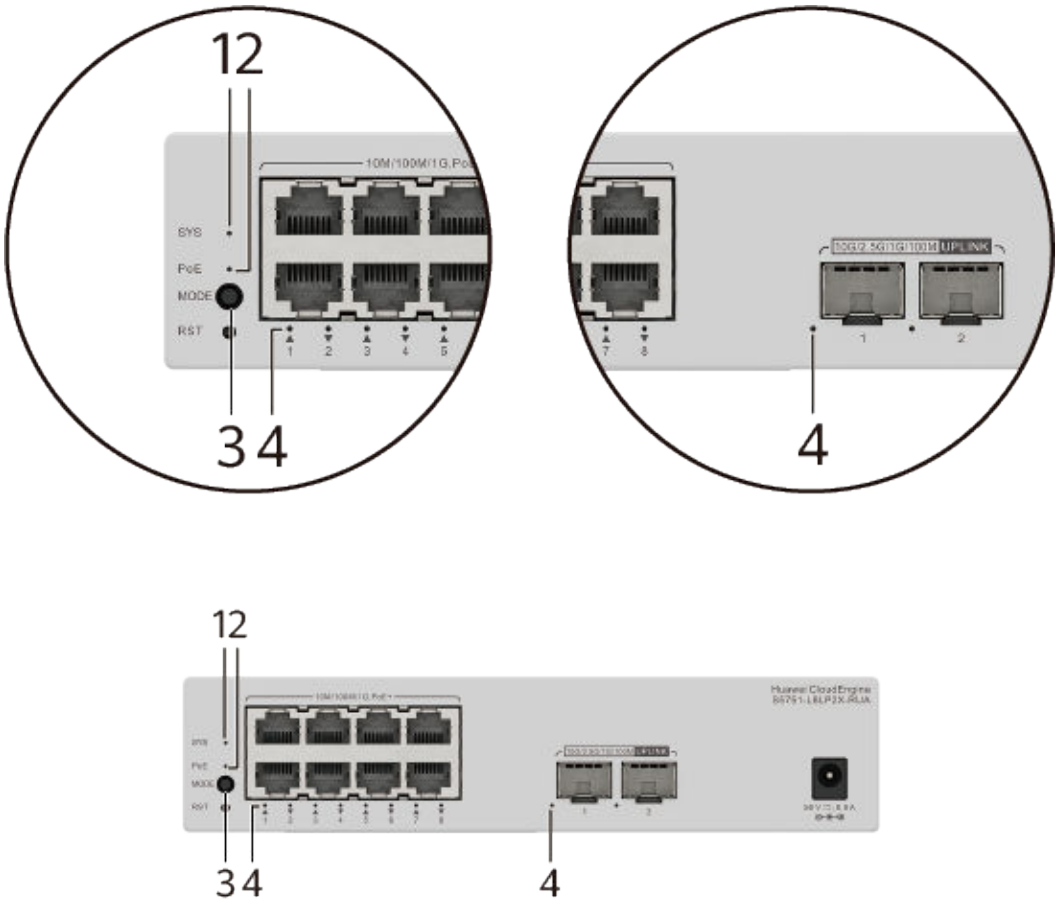
Port	Connector Type	Description	Available Components
PoE-in port	1×2-Pin Phoenix Connector	PoE-in port can receive PoE power from a central switch through a hybrid cable.	• First-generation hybrid cable • Second-generation hybrid cable

Indicators and Buttons

Figure 4-66 Indicators on the device



NOTE

The S5751-L8LP2X-RUA model is used as an example.

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Table 4-170 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-171**.		

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Table 4-171 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The remote unit supports the following power supply modes:

- Powered by an external power adapter
- Powered by a central switch using hybrid cables
  - Optical-electrical integration: The hybrid optical-electrical port uses a hybrid module and hybrid cable to transmit data and receive PoE power. In this scenario, the PoE_IN port is not used.
  - Optical-electrical separation: The hybrid optical-electrical port uses a common optical module to connect to the optical fiber in the hybrid cable to transmit data, and the PoE_IN port uses a Phoenix connector to connect to the power wire in the hybrid cable to receive PoE power. In this scenario, the hybrid optical-electrical port and PoE_IN port in the same group (PoE_IN0 or PoE_IN1) are used together.

When different power supply modes are used at the same time, the system preferentially uses the power adapter for power supply. The hot backup mode is used between different power supply modes. The two uplink ports have no default priority, and the connection time is used as the priority.

The remote unit can provide PoE power for external PDs. The PoE power supply capability varies according to the power supply mode.

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Table 4-172 Power supply configurations

Power Supply Mode	Available PoE Power	Maximum Number of Ports (Fully Loaded)	Remark
Powered by an external power adapter	128 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4	-
Powered by a central switch	Forcible power supply disabled (default): max 50 W	• 802.3af (15.4 W per port): 3 • 802.3at (30 W per port): 1	• If no PD is connected to the remote unit, the central switch only supplies power to the remote unit. The PoE standard of the central switch must be 802.3at at least. • If PDs are connected to the remote unit, the central switch supplies power to the remote unit and the connected PDs. It is recommended that the output PoE standard of the central switch be 802.3bt and the output power be 90 W. If the 802.3at standard is used, the available power of the PDs connected to the remote unit may be insufficient.
	Forcible power supply enabled: max 70 W	• 802.3af (15.4 W per port): 4 • 802.3at (30 W per port): 2	

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NOTICE

When the remote unit is powered by the central switch, the total power consumption of the remote unit and its connected PDs cannot exceed 71.3 W. If the power consumption exceeds 71.3 W, the remote unit and its connected PDs will be powered off and restarted.

When the remote unit is powered by the central switch, the maximum available PoE power in the preceding table can be provided only when the following conditions are met:

- When forcible power supply is disabled by default:
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
- When forcible power supply is enabled (using the **poe force-power port** command):
  - The PoE output of the central switch must comply with the 802.3bt class8 standard.
  - The central switch and the remote unit must be connected for a short distance (less than 8 m, with the line loss ignored). If the distance between the central switch and the remote unit is longer than 8 m and the PD is supplied with power based on the maximum power supply capability displayed on the central switch, the remote unit and the connected PD may be powered off and restarted.
  - The output voltage of the power module used by the central switch cannot be lower than 55.5 V.

The actual available PoE power provided by the remote unit is calculated based on the cabling distance between the central switch and the remote unit, the cabling distance between the remote unit and the connected PD, the maximum power consumption of the remote unit, the PoE output voltage of the central switch, and PoE class level output by the central switch.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-173 Technical specifications of the S5751-L8P2PN2HX-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 195 mm x 160 mm (1.72 in. x 7.68 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 195 mm x 166.2 mm (1.72 in. x 7.68 in. x 6.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	116.0 mm x 285.0 mm x 225.0 mm (4.57 in. x 11.22 in. x 8.86 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.23 kg (2.71 lb)
Weight with packaging [kg(lb)]	1.72 kg (3.79 lb)
Typical power consumption [W]	• 16.74 W (via a power adapter) • 13.14 W (via a hybrid cable)
Typical heat dissipation [BTU/hour]	• 57.13 (via a power adapter) • 44.82 (via a hybrid cable)
Maximum power consumption [W]	Power adapter: • Without PoE: 14.60 W (device), 17.59 W (device + adapter) • Full PoE load: 162.05 W (PoE: 128 W) 94.5 W PoE power over the hybrid cable: • Without PoE: 17.57 W • Full PoE load: 91.97 W (PoE: 70 W) 71.3 W PoE power over the hybrid cable: • Without PoE: 17.57 W • Full PoE load: 70.38 W (PoE: 50 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	Power adapter: ● Without PoE: 49.82 (device), 60.02 (device + adapter) ● Full PoE load: 552.93 94.5 W PoE power over the hybrid cable: ● Without PoE: 59.96 ● Full PoE load: 313.80 71.3 W PoE power over the hybrid cable: ● Without PoE: 59.96 ● Full PoE load: 240.16
Static power consumption [W]	7.15 W
MTBF [years]	83.69 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	The uplink hybrid optical-electrical port and adapter back up each other. The power adapter is not provided by default and can be purchased as required. 02222067: white, 220 V PoE power adapter 02221024: black, 110 V/220 V PoE power adapter
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). Industry optical modules are required when the operating temperature exceeds 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	• Power adapter • PoE_IN
Rated input voltage [V]	Power adapter HW-560268D0D (02221024): • Power adapter input: 100 V AC to 240 V AC; 50/60 Hz • Power adapter output: 56 V DC Power adapter AD-540278D0D (02222067): • Power adapter input: 170 V AC to 240 V AC; 50/60 Hz • Power adapter output: 54 V DC Hybrid cable (PoE): 56 V DC
Input voltage range [V]	Power adapter HW-560268D0D (02221024): - Power adapter input: 90 V AC to 290 V AC; 47 Hz to 63 Hz Power adapter AD-540278D0D (02222067): - Power adapter input: 170 V AC to 264 V AC; 47 Hz to 63 Hz Hybrid cable (PoE): 54 V DC to 57 V DC
Maximum input current [A]	2.68 A
Memory	-

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Item	Specification
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Power adapter HW-560268D0D (02221024): - ±6 kV in differential mode and ±6 kV in common mode Power adapter AD-540278D0D (02222067): - ±4 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.14 S5751-L24T2J-RUA

Overview

Table 4-174 Basic information about the S5751-L24T2J-RUA

Item	Details
Description	S5751-L24T2J-RUA (24*10/100/1000BASE-T ports, 2*2.5GE SFP ports, built-in AC power, Fanless)
Part Number	98012509

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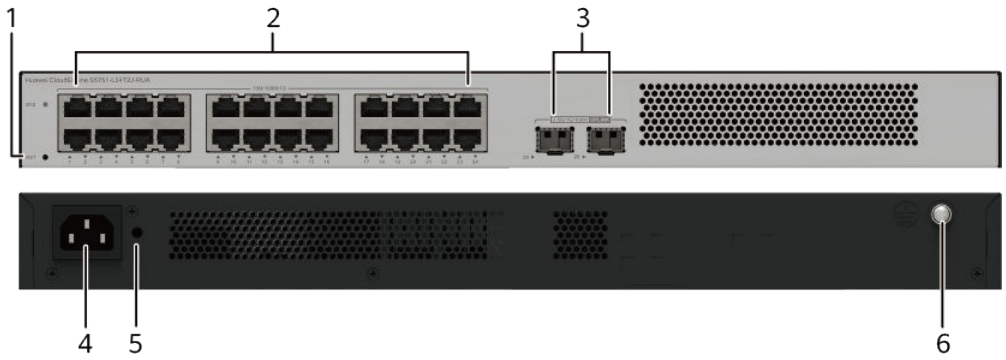
Item	Details
Model	S5751-L24T2J-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

Components

Figure 4-67 S5751-L24T2J-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	Twenty-four 10/100/1000BASE-T ports
3	Two 2.5GE SFP optical ports **NOTE** The ports are uplink ports.	4	AC socket **NOTE** Use the power cable delivered with the device.

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5	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	6	Ground screw

Ports

Table 4-175 Ports on the S5751-L24T2J-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
2.5GE SFP optical port	SFP	A 2.5GE SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **PEN remote optical modules**

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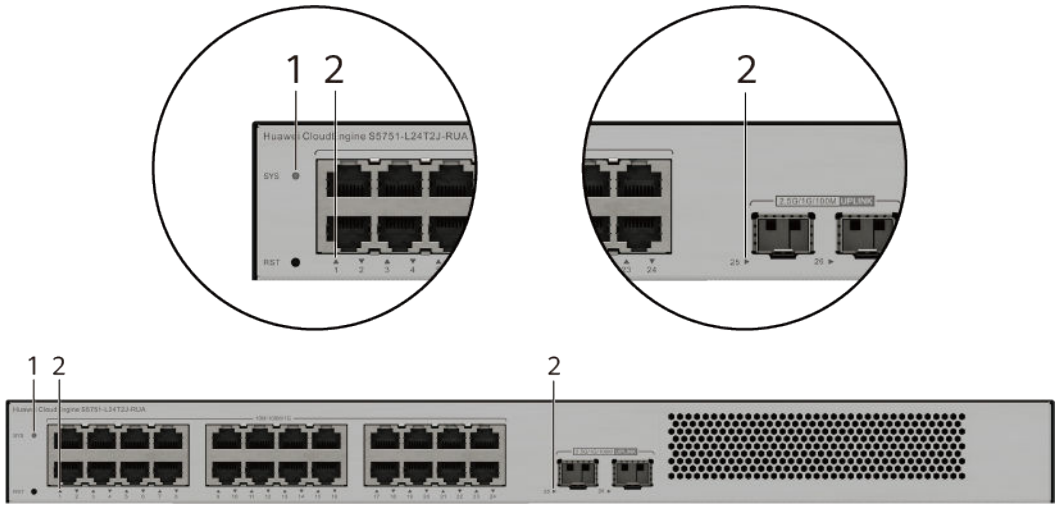
Indicators and Buttons

Figure 4-68 Indicators on the device



NOTE

The S5751-L24T2J-RUA model is used as an example.

Table 4-176 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	-	Service port indicator	-	Off	The port is not connected.
			Green	Steady on	The port is connected.
			Green	Blinking	The port is sending or receiving data.

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Power Supply System

The remote unit is powered by the power cable delivered with the device.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-177 Technical specifications of the S5751-L24T2J-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442 mm x 160 mm (1.72 in. x 17.40 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442 mm x 167 mm (1.72 in. x 17.40 in. x 6.57 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 260.0 mm (3.54 in. x 21.65 in. x 10.24 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.98 kg (4.37 lb)
Weight with packaging [kg(lb)]	2.94 kg (6.48 lb)
Typical power consumption [W]	18.30 W
Typical heat dissipation [BTU/hour]	62.44 BTU/hour
Maximum power consumption [W]	18.90 W
Maximum heat dissipation [BTU/hour]	64.49 BTU/hour
Static power consumption [W]	8.14 W
MTBF [years]	59.46 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20

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Item	Specification
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20

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Item	Specification
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.15 S5751-L24T2X-RUA

Overview

Table 4-178 Basic information about the S5751-L24T2X-RUA

Item	Details
Description	S5751-L24T2X-RUA (24*10/100/1000BASE-T ports, 2*10GE SFP+ ports, built-in AC power, Fanless)
Part Number	98012510
Model	S5751-L24T2X-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600.

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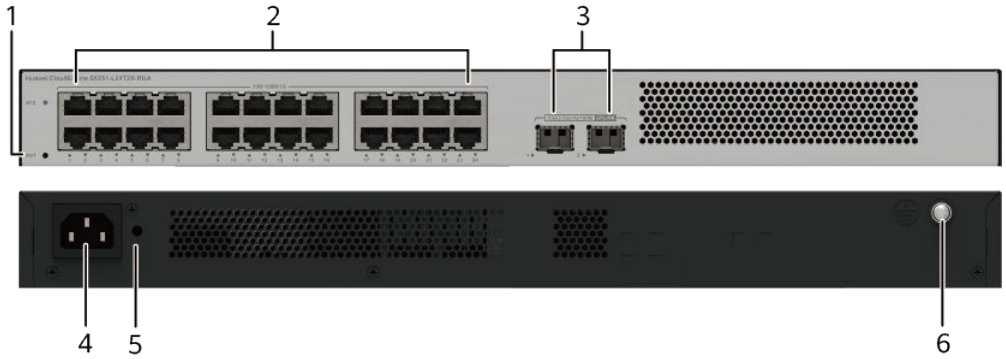
Components

Figure 4-69 S5751-L24T2X-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	Twenty-four 10/100/1000BASE-T ports
3	Two 10GE SFP+ optical ports **NOTE** The ports are uplink ports.	4	AC socket **NOTE** Use the power cable delivered with the device.
5	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	6	Ground screw

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Ports

Table 4-179 Ports on the S5751-L24T2X-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **PEN remote optical modules**

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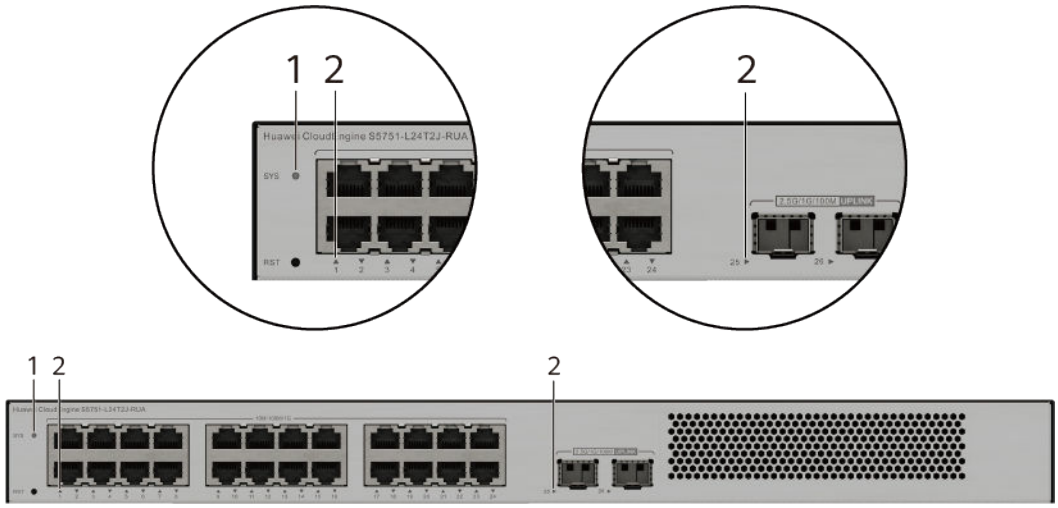
Indicators and Buttons

Figure 4-70 Indicators on the device



NOTE

The S5751-L24T2J-RUA model is used as an example.

Table 4-180 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	-	Service port indicator	-	Off	The port is not connected.
			Green	Steady on	The port is connected.
			Green	Blinking	The port is sending or receiving data.

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Power Supply System

The remote unit is powered by the power cable delivered with the device.

Heat Dissipation System

The remote unit has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-181 Technical specifications of the S5751-L24T2X-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442 mm x 160 mm (1.72 in. x 17.40 in. x 6.30 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442 mm x 167 mm (1.72 in. x 17.40 in. x 6.57 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 260.0 mm (3.54 in. x 21.65 in. x 10.24 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.98 kg (4.37 lb)
Weight with packaging [kg(lb)]	2.94 kg (6.48 lb)
Typical power consumption [W]	18.30 W
Typical heat dissipation [BTU/hour]	62.44 BTU/hour
Maximum power consumption [W]	18.90 W
Maximum heat dissipation [BTU/hour]	64.49 BTU/hour
Static power consumption [W]	8.14 W
MTBF [years]	59.46 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans), < 30
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans), < 20

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Item	Specification
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20

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Item	Specification
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.16 S5751-L24P2J-RUA

Overview

Table 4-182 Basic information about the S5751-L24P2J-RUA

Item	Details
Description	S5751-L24P2J-RUA (24*10/100/1000BASE-T ports (PoE+), 2*2.5GE SFP ports, 400 W PoE, built-in AC power)
Part Number	98012528
Model	S5751-L24P2J-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600. If the upper-level circuit breaker for a device is also connected to many other devices, a C32 or above circuit breaker needs to be used. If the upper-level circuit breaker for a device is connected only to this device, a C25 or below circuit breaker can be used.

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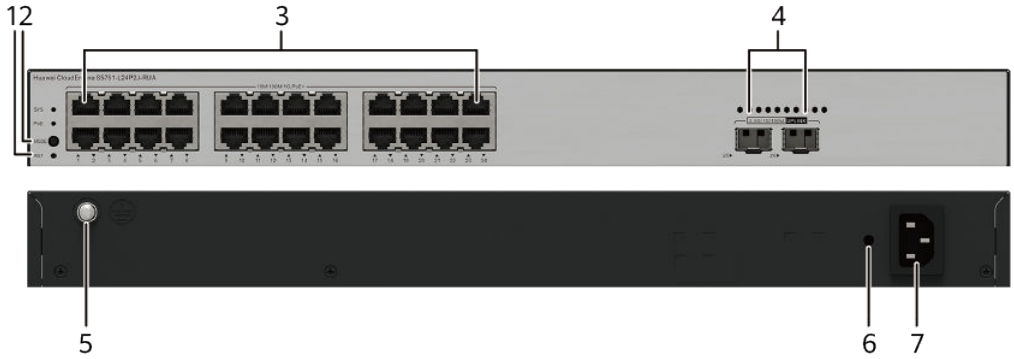
Components

Figure 4-71 S5751-L24P2J-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button
3	Twenty-four 10/100/1000BASE-T PoE+ ports	4	Two 2.5GE SFP optical ports **NOTE** The ports are uplink ports.
5	Ground screw	6	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.
7	AC socket **NOTE** Use the power cable delivered with the device.	-	-

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Ports

Table 4-183 Ports on the S5751-L24P2J-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
2.5GE SFP optical port	SFP	A 2.5GE SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **PEN remote optical modules**

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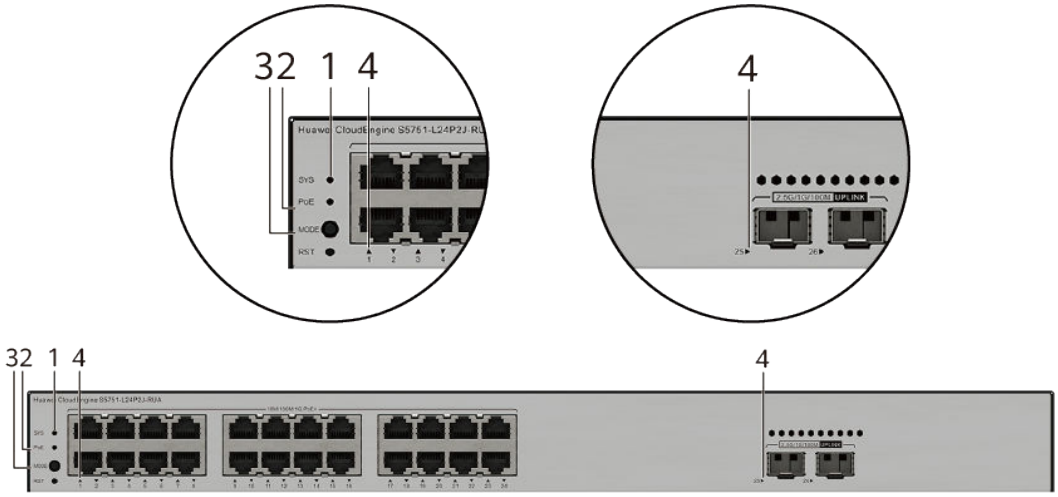
Indicators and Buttons

Figure 4-72 Indicators on the device



NOTE

The S5751-L24P2J-RUA model is used as an example.

Table 4-184 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-185**.		

Table 4-185 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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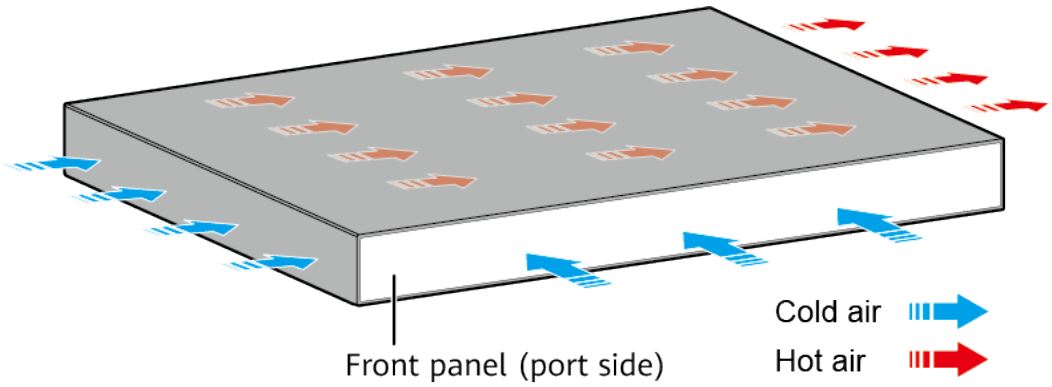
Display Mode	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-186 Technical specifications of the S5751-L24P2J-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442 mm x 220 mm (1.72 in. x 17.40 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442 mm x 227 mm (1.72 in. x 17.40 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.79 kg (6.15 lb)
Weight with packaging [kg(lb)]	3.85 kg (8.49 lb)
Typical power consumption [W]	30.32 W
Typical heat dissipation [BTU/hour]	103.44 BTU/hour
Maximum power consumption [W]	• Without PoE: 32.42 W • Full PoE load: 482.68 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 110.63 • Full PoE load: 1646.95
Static power consumption [W]	15.74 W
MTBF [years]	48.88 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	52.8 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	40.1 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.17 S5751-L24P2X-RUA

Overview

Table 4-187 Basic information about the S5751-L24P2X-RUA

Item	Details
Description	S5751-L24P2X-RUA (24*10/100/1000BASE-T ports (PoE+), 2*10GE SFP+ ports, 400 W PoE, built-in AC power)
Part Number	98012529
Model	S5751-L24P2X-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600. If the upper-level circuit breaker for a device is also connected to many other devices, a C32 or above circuit breaker needs to be used. If the upper-level circuit breaker for a device is connected only to this device, a C25 or below circuit breaker can be used.

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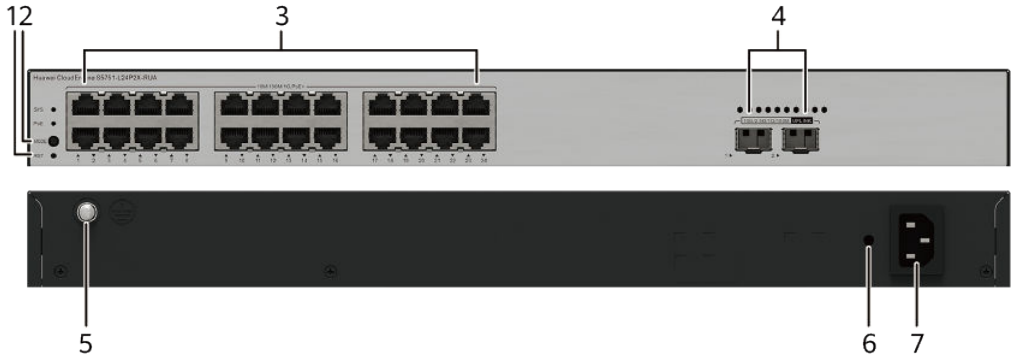
Components

Figure 4-73 S5751-L24P2X-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button
3	Twenty-four 10/100/1000BASE-T PoE+ ports	4	Two 10GE SFP+ optical ports **NOTE** The ports are uplink ports.
5	Ground screw	6	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.
7	AC socket **NOTE** Use the power cable delivered with the device.	-	-

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Ports

Table 4-188 Ports on the S5751-L24P2X-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **PEN remote optical modules**

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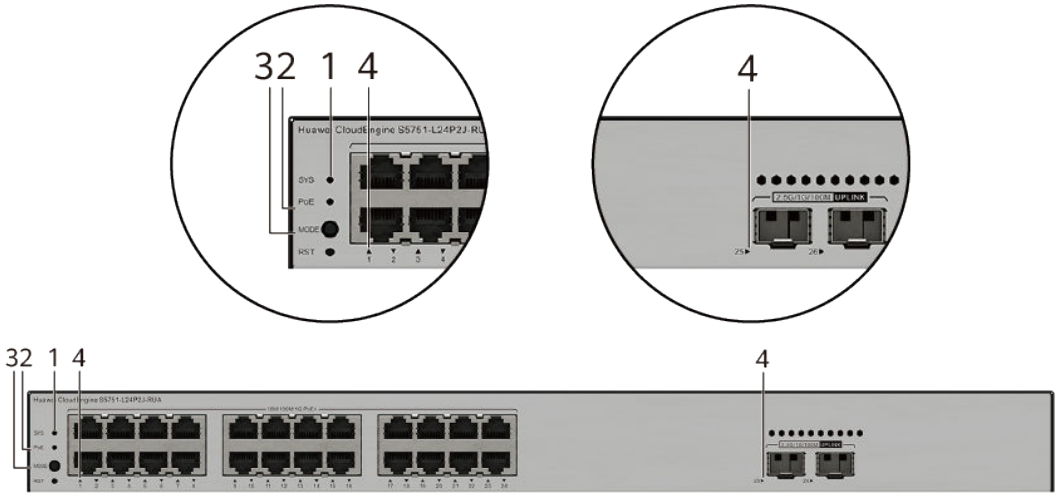
Indicators and Buttons

Figure 4-74 Indicators on the device



NOTE

The S5751-L24P2J-RUA model is used as an example.

Table 4-189 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-190**.		

Table 4-190 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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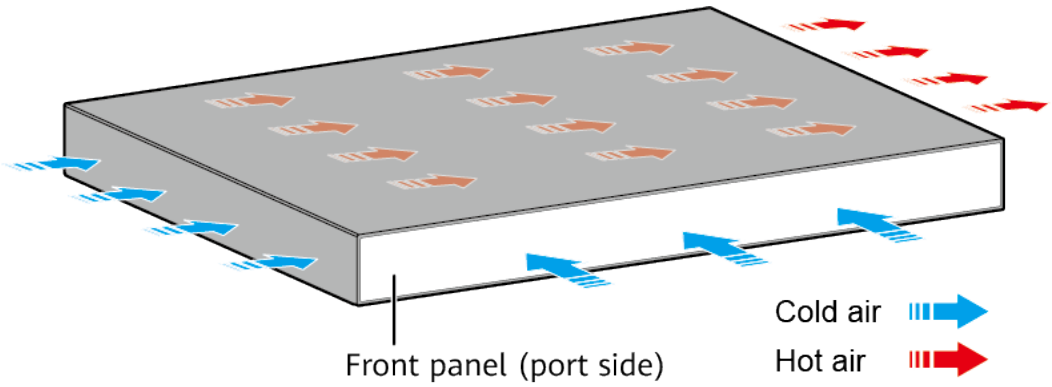
Display Mode	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-191 Technical specifications of the S5751-L24P2X-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442 mm x 220 mm (1.72 in. x 17.40 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442 mm x 227 mm (1.72 in. x 17.40 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.79 kg (6.15 lb)
Weight with packaging [kg(lb)]	3.85 kg (8.49 lb)
Typical power consumption [W]	30.32 W
Typical heat dissipation [BTU/hour]	103.44 BTU/hour
Maximum power consumption [W]	• Without PoE: 32.42 W • Full PoE load: 482.68 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 110.63 • Full PoE load: 1646.95
Static power consumption [W]	15.74 W
MTBF [years]	48.88 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	52.8 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	40.1 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.7.18 S5751-L24P2PN2X-RUA

Overview

Table 4-192 Basic information about the S5751-L24P2PN2X-RUA

Item	Details
Description	S5751-L24P2PN2X-RUA (24*10/100/1000BASE-T ports (22*PoE+), 2*10/100/1000/2.5GBASE-T ports (PoE+), 2*10GE SFP+ ports, 400 W PoE, built-in AC power)
Part Number	98012530
Model	S5751-L24P2PN2X-RUA
First supported version	V200R024C00 V600R024C00
Remarks	The RU itself does not have a software version. Instead, the first supported version of the RU depends on the software version of the central switch and varies for central switches running V200 and V600. If the upper-level circuit breaker for a device is also connected to many other devices, a C32 or above circuit breaker needs to be used. If the upper-level circuit breaker for a device is connected only to this device, a C25 or below circuit breaker can be used.

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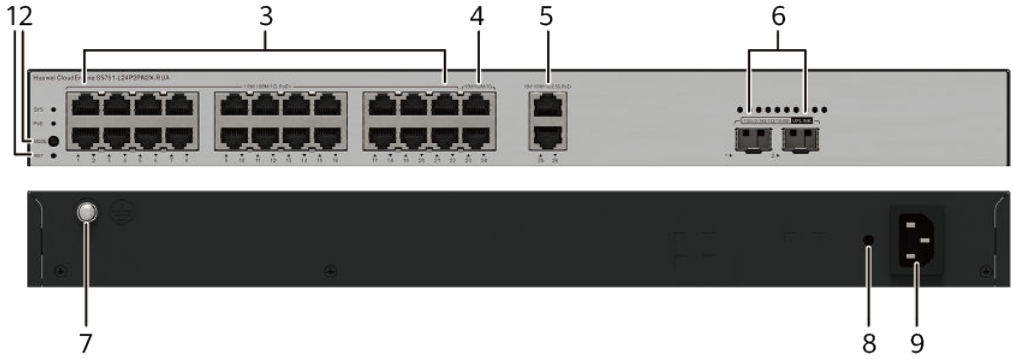
Components

Figure 4-75 S5751-L24P2PN2X-RUA appearance



1	One RST button **NOTICE** To restore the factory settings and reset the device, hold down the button for at least 6 seconds. To reset the device, press the button. Resetting the device will cause service interruption. Exercise caution when you press the button.	2	One MODE button
3	Twenty-two 10/100/1000BASE-T PoE+ ports	4	Two 10/100/1000BASE-T ports
5	Two 10M/100M/1000M/2.5GE BASE-T PoE+ ports (multi-GE ports)	6	Two 10GE SFP+ optical ports **NOTE** The ports are uplink ports.
7	Ground screw	8	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.
9	AC socket **NOTE** Use the power cable delivered with the device.	-	-

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Ports

Table 4-193 Ports on the S5751-L24P2PN2X-RUA

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10M/100M/1G/2.5GE BASE-T port (multi-GE port)	RJ45	A 10M/100M/1G/2.5GE BASE-T PoE+ port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s. The 10GE and GE (FE) optical modules cannot be used on the two uplink optical ports at the same time.	• **FE SFP/eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **GE eSFP optical modules (the maximum transmission distance cannot exceed 10 km)** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **PEN remote optical modules**

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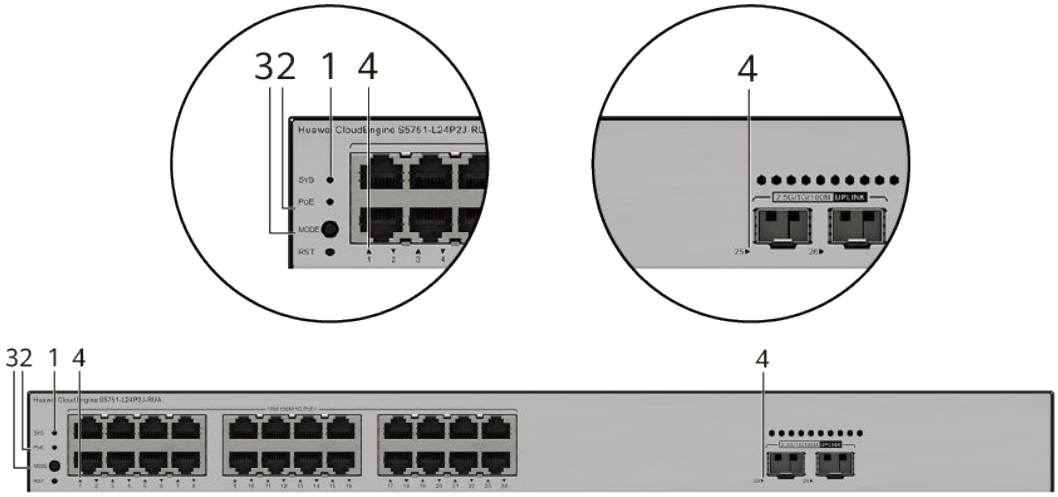
Indicators and Buttons

Figure 4-76 Indicators on the device



NOTE

The S5751-L24P2J-RUA model is used as an example.

Table 4-194 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or an alarm has been generated.
2	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
3	MODE	Mode switch button	-	-	• When you press this button once (hold it down for more than 1 second), the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a second time (hold it down for more than 1 second), the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off.
4	-	Service port indicator (one indicator for each port)	Meanings of service port indicators vary in different modes. For details, see **Table 4-195**.		

Table 4-195 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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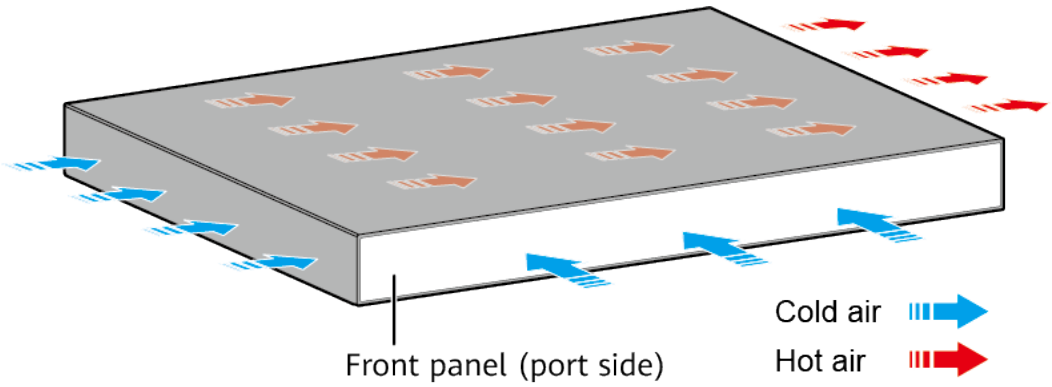
Display Mode	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-196 Technical specifications of the S5751-L24P2PN2X-RUA

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442 mm x 220 mm (1.72 in. x 17.40 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442 mm x 227 mm (1.72 in. x 17.40 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.82 kg (6.22 lb)
Weight with packaging [kg(lb)]	3.89 kg (8.58 lb)
Typical power consumption [W]	30.32 W
Typical heat dissipation [BTU/hour]	103.44 BTU/hour
Maximum power consumption [W]	• Without PoE: 32.42 W • Full PoE load: 482.68 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 110.63 • Full PoE load: 1646.95
Static power consumption [W]	15.74 W
MTBF [years]	48.71 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	52.8 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	40.1 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	-
Flash memory	-
Console port	Not supported
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8 S5735-L-V2

4.8.1 S5735-L8T4S-A-V2

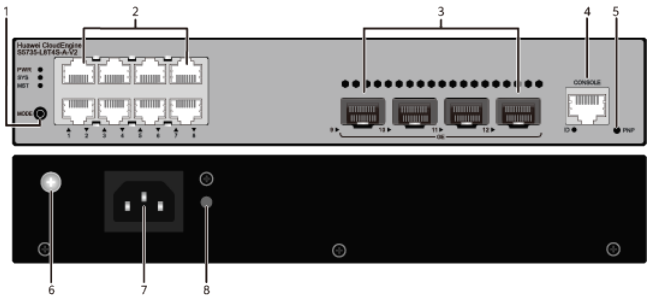
Overview

Table 4-197 Basic information about the S5735-L8T4S-A-V2

Item	Details
Description	S5735-L8T4S-A-V2 (8*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
Part Number	98011977
Model	S5735-L8T4S-A-V2
First supported version	V600R022C01

Components

Figure 4-77 S5735-L8T4S-A-V2 appearance



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1	One MODE button	2	Eight 10/100/1000BASE-T ports
3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	AC socket **NOTE** It is used with an **AC power cable**.	8	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.

Ports

Table 4-198 Ports on the S5735-L8T4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• GE eSFP optical modules • GE-CWDM eSFP optical modules • GE-DWDM eSFP optical modules • GE SFP copper module • 10GE SFP+ optical modules (only used for stack connection) • 10GE-CWDM SFP+ optical modules (only used for stack connection) • 10GE-DWDM SFP+ optical modules (only used for stack connection) • 1 m and 3 m SFP+ high-speed copper cables (only used for stack connection) • 10 m SFP+ AOC cables (only used for stack connection) • 0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration

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Port	Connector Type	Description	Available Components
			stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L8T4S-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L8T4S-A-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

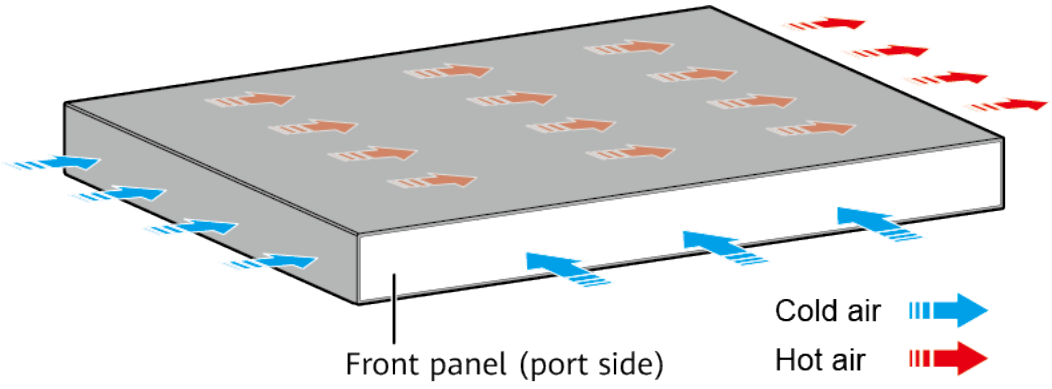
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-199 Technical specifications of the S5735-L8T4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 180.0 mm (1.72 in. x 9.84 in. x 7.09 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 187.0 mm (1.72 in. x 9.84 in. x 7.36 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 370.0 mm x 380.0 mm (3.54 in. x 14.57 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.41 kg (3.11 lb)
Weight with packaging [kg(lb)]	2.22 kg (4.89 lb)
Typical power consumption [W]	15.95 W
Typical heat dissipation [BTU/hour]	54.42 BTU/hour
Maximum power consumption [W]	21.52 W
Maximum heat dissipation [BTU/hour]	73.43 BTU/hour
Static power consumption [W]	10.52 W
MTBF [years]	75.32 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	44.5 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	32.5 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.8.2 S5735-L8T4X-QA-V2 (98012073)

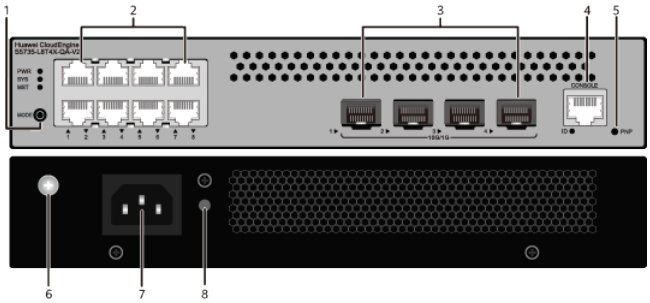
Overview

Table 4-200 Basic information about the S5735-L8T4X-QA-V2

Item	Details
Description	S5735-L8T4X-QA-V2 (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power, Fanless)
Part Number	98012073
Model	S5735-L8T4X-QA-V2
First supported version	V600R022C01

Components

Figure 4-78 S5735-L8T4X-QA-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	One console port

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5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	AC socket **NOTE** It is used with an **AC power cable**.	8	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.

Ports

Table 4-201 Ports on the S5735-L8T4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-**

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Port	Connector Type	Description	Available Components
			configuration stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L8T4X-QA-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L8T4X-QA-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-202 Technical specifications of the S5735-L8T4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 180.0 mm (1.72 in. x 9.84 in. x 7.1 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 187.0 mm (1.72 in. x 9.84 in. x 7.36 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 370.0 mm x 380.0 mm (3.54 in. x 14.57 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal

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Item	Specification
Weight without packaging [kg(lb)]	1.40 kg (3.09 lb)
Weight with packaging [kg(lb)]	2.21 kg (4.87 lb)
Typical power consumption [W]	16.2 W
Typical heat dissipation [BTU/hour]	55.28 BTU/hour
Maximum power consumption [W]	16.97 W
Maximum heat dissipation [BTU/hour]	57.9 BTU/hour
Static power consumption [W]	10.05 W
MTBF [years]	76.15 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	-40°C to +70°C (-40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100 V AC to 240 V AC, 50/60 Hz

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Item	Specification
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	±6 kV in differential mode, ±6 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.3 S5735-L8T4X-QA-V2 (98012073-004)

Overview

Table 4-203 Basic information about the S5735-L8T4X-QA-V2

Item	Details
Description	S5735-L8T4X-QA-V2 WB (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power, Fanless)
Part Number	98012073-004

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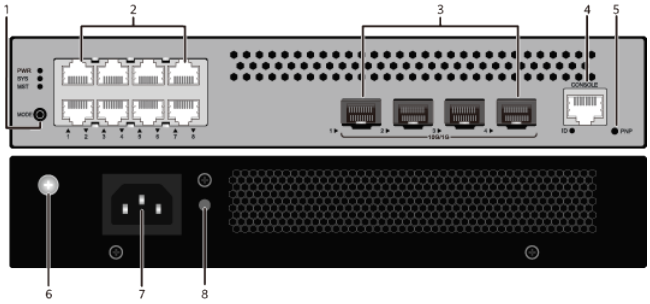
Item	Details
Model	S5735-L8T4X-QA-V2
First supported version	V600R022C01

Components

Figure 4-79 S5735-L8T4X-QA-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	AC socket **NOTE** It is used with an **AC power cable**.	8	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.

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Ports

Table 4-204 Ports on the S5735-L8T4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-**

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Port	Connector Type	Description	Available Components
			configuration stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L8T4X-QA-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L8T4X-QA-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-205 Technical specifications of the S5735-L8T4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 180.0 mm (1.72 in. x 9.84 in. x 7.1 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 187.0 mm (1.72 in. x 9.84 in. x 7.36 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 370.0 mm x 380.0 mm (3.54 in. x 14.57 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal

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Item	Specification
Weight without packaging [kg(lb)]	1.40 kg (3.09 lb)
Weight with packaging [kg(lb)]	2.21 kg (4.87 lb)
Typical power consumption [W]	16.2 W
Typical heat dissipation [BTU/hour]	55.28 BTU/hour
Maximum power consumption [W]	16.97 W
Maximum heat dissipation [BTU/hour]	57.9 BTU/hour
Static power consumption [W]	10.05 W
MTBF [years]	76.15 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz

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Item	Specification
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.4 S5735-L8P4S-A-V2

Overview

Table 4-206 Basic information about the S5735-L8P4S-A-V2

Item	Details
Description	S5735-L8P4S-A-V2 (8*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power)
Part Number	98011986

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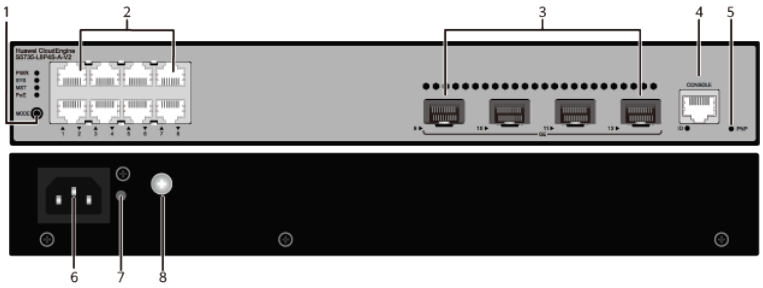
Item	Details
Model	S5735-L8P4S-A-V2
First supported version	V600R022C01

Components

Figure 4-80 S5735-L8P4S-A-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T PoE+ ports
3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	AC socket **NOTE** It is used with an **AC power cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	Ground screw **NOTE** It is used with a **ground cable**.

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Ports

Table 4-207 Ports on the S5735-L8P4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration**

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Port	Connector Type	Description	Available Components
			stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L8P4S-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2. For details, see the S5735-L8P2T4X-A-V2.

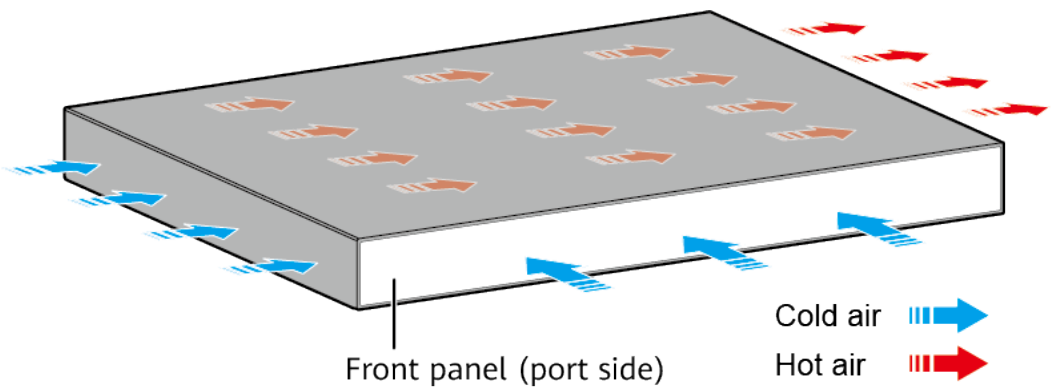
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-208 Technical specifications of the S5735-L8P4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 320.0 mm x 210.0 mm (1.72 in. x 12.6 in. x 8.27 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 320.0 mm x 217.0 mm (1.72 in. x 12.6 in. x 8.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 465.0 mm x 380.0 mm (3.54 in. x 18.31 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.23 kg (4.92 lb)
Weight with packaging [kg(lb)]	3.05 kg (6.72 lb)
Typical power consumption [W]	19.99 W
Typical heat dissipation [BTU/hour]	68.21 BTU/hour
Maximum power consumption [W]	• Without PoE: 25.09 W • Full PoE load: 166.65 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 85.61 • Full PoE load: 568.63
Static power consumption [W]	17.19 W
MTBF [years]	69.71 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.5 S5735-L8P4X-QA-V2 (98012074)

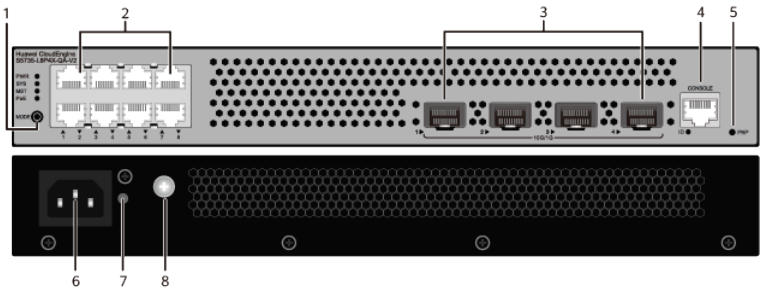
Overview

Table 4-209 Basic information about the S5735-L8P4X-QA-V2

Item	Details
Description	S5735-L8P4X-QA-V2 (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, PoE+, AC power, Fanless)
Part Number	98012074
Model	S5735-L8P4X-QA-V2
First supported version	V600R022C01

Components

Figure 4-81 S5735-L8P4X-QA-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T PoE+ ports

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3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	AC socket **NOTE** It is used with an **AC power cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	Ground screw **NOTE** It is used with a **ground cable**.

Ports

Table 4-210 Ports on the S5735-L8P4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-**

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Port	Connector Type	Description	Available Components
			configuration stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L8P4X-QA-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2. For details, see the S5735-L8P2T4X-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-211 Technical specifications of the S5735-L8P4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 320.0 mm x 210.0 mm (1.72 in. x 12.6 in. x 8.27 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 320.0 mm x 217.0 mm (1.72 in. x 12.6 in. x 8.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 465.0 mm x 380.0 mm (3.54 in. x 18.31 in. x 14.96 in.)
Chassis height [U]	1 U

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Item	Specification
Chassis material	Metal
Weight without packaging [kg(lb)]	2.24 kg (4.94 lb)
Weight with packaging [kg(lb)]	3.06 kg (6.75 lb)
Typical power consumption [W]	21.16 W
Typical heat dissipation [BTU/hour]	72.2 BTU/hour
Maximum power consumption [W]	• Without PoE: 22.21 W • Full PoE load: 152.55 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 75.78 • Full PoE load: 520.52
Static power consumption [W]	15.24 W
MTBF [years]	70.41 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)

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Item	Specification
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.6 S5735-L8P4X-QA-V2 (98012074-004)

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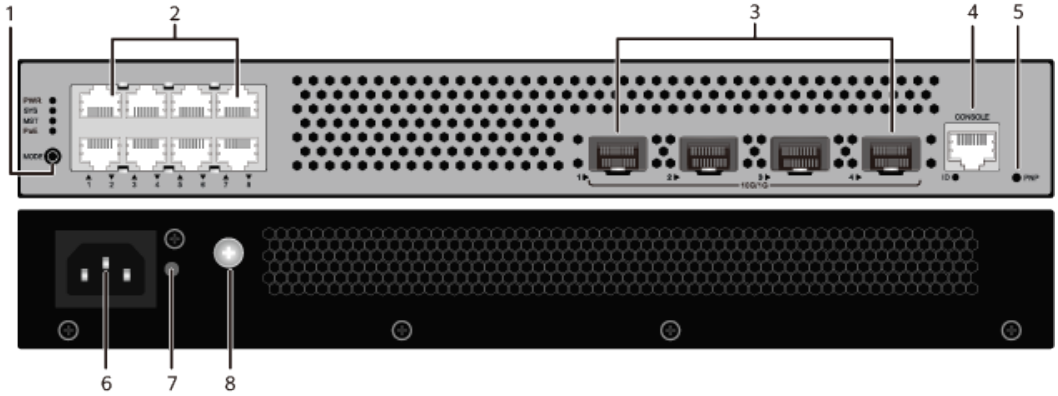
Overview

Table 4-212 Basic information about the S5735-L8P4X-QA-V2

Item	Details
Description	S5735-L8P4X-QA-V2 WB (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, PoE+, AC power, Fanless)
Part Number	98012074-004
Model	S5735-L8P4X-QA-V2
First supported version	V600R022C01

Components

Figure 4-82 S5735-L8P4X-QA-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	AC socket **NOTE** It is used with an **AC power cable**.

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7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	Ground screw **NOTE** It is used with a **ground cable**.

Ports

Table 4-213 Ports on the S5735-L8P4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-**

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Port	Connector Type	Description	Available Components
			configuration stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L8P4X-QA-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2. For details, see the S5735-L8P2T4X-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-214 Technical specifications of the S5735-L8P4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 320.0 mm x 210.0 mm (1.72 in. x 12.6 in. x 8.27 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 320.0 mm x 217.0 mm (1.72 in. x 12.6 in. x 8.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 465.0 mm x 380.0 mm (3.54 in. x 18.31 in. x 14.96 in.)
Chassis height [U]	1 U

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Item	Specification
Chassis material	Metal
Weight without packaging [kg(lb)]	2.24 kg (4.94 lb)
Weight with packaging [kg(lb)]	3.06 kg (6.75 lb)
Typical power consumption [W]	21.16 W
Typical heat dissipation [BTU/hour]	72.2 BTU/hour
Maximum power consumption [W]	• Without PoE: 22.21 W • Full PoE load: 152.55 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 75.78 • Full PoE load: 520.52
Static power consumption [W]	15.24 W
MTBF [years]	70.41 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)

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Item	Specification
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.7 S5735-L8P2T4X-A-V2

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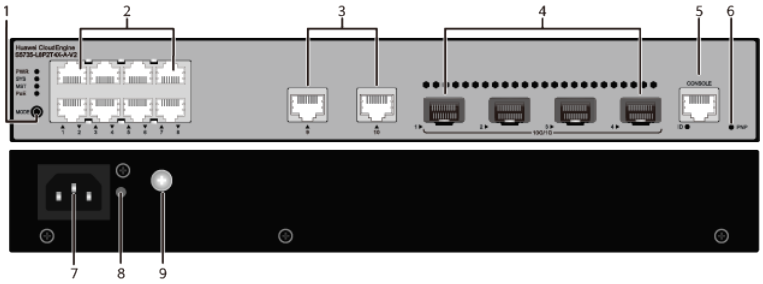
Overview

Table 4-215 Basic information about the S5735-L8P2T4X-A-V2

Item	Details
Description	S5735-L8P2T4X-A-V2 (8*10/100/1000BASE-T ports(PoE+), 2*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power)
Part Number	98011991
Model	S5735-L8P2T4X-A-V2
First supported version	V600R022C01

Components

Figure 4-83 S5735-L8P2T4X-A-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T PoE+ ports
3	Two 10/100/1000BASE-T ports	4	Four 10GE SFP+ ports
5	One console port	6	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.

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7	AC socket **NOTE** It is used with an **AC power cable**.	8	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.
9	Ground screw **NOTE** It is used with a **ground cable**.	-	-

Ports

Table 4-216 Ports on the S5735-L8P2T4X-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

Figure 4-84 Indicators on the Switch

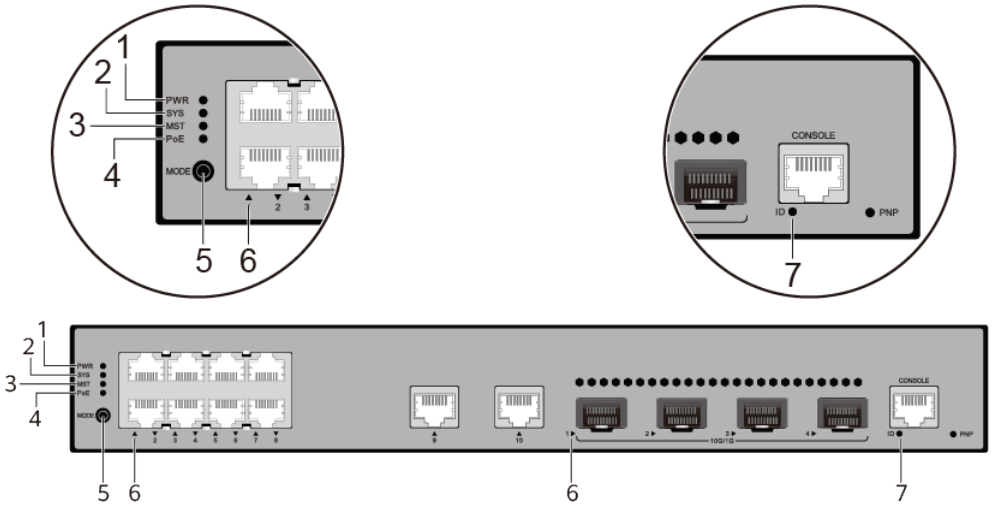

Table 4-217 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.

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No.	Indicator	Name	Color	Status	Description
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.

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No.	Indicator	Name	Color	Status	Description
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-218**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

Table 4-218 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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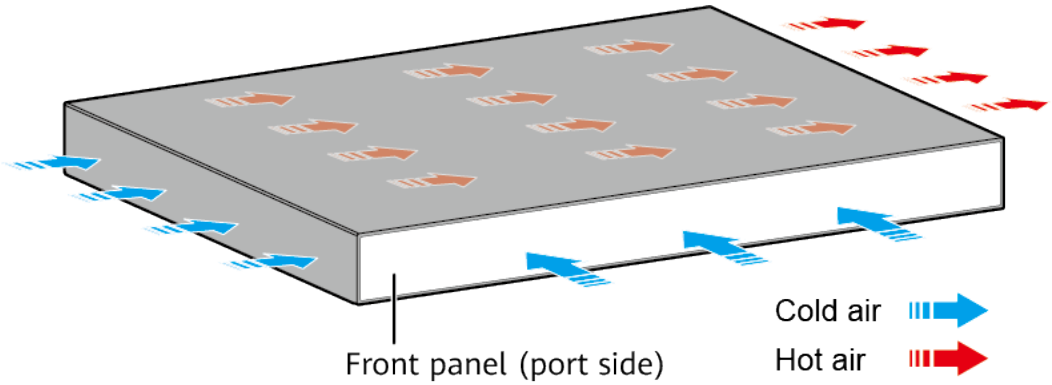

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-219 Technical specifications of the S5735-L8P2T4X-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 320.0 mm x 210.0 mm (1.72 in. x 12.6 in. x 8.27 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 320.0 mm x 217.0 mm (1.72 in. x 12.6 in. x 8.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 465.0 mm x 380.0 mm (3.54 in. x 18.31 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.24 kg (4.94 lb)
Weight with packaging [kg(lb)]	3.06 kg (6.75 lb)
Typical power consumption [W]	23.33 W
Typical heat dissipation [BTU/hour]	79.6 BTU/hour
Maximum power consumption [W]	• Without PoE: 32.33 W • Full PoE load: 151.85 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 110.31 • Full PoE load: 518.13

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Item	Specification
Static power consumption [W]	16.75 W
MTBF [years]	68.40 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported

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Item	Specification
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.8 S5735-L8P2T4X-TA-V2

Overview

Table 4-220 Basic information about the S5735-L8P2T4X-TA-V2

Item	Details
Description	S5735-L8P2T4X-TA-V2 (8*10/100/1000BASE-T ports(PoE+), 2*10/100/1000BASE-T ports, 4*10GE SFP+ ports, HTM, AC power, Only for Overseas)
Part Number	98011992
Model	S5735-L8P2T4X-TA-V2
First supported version	V600R022C01

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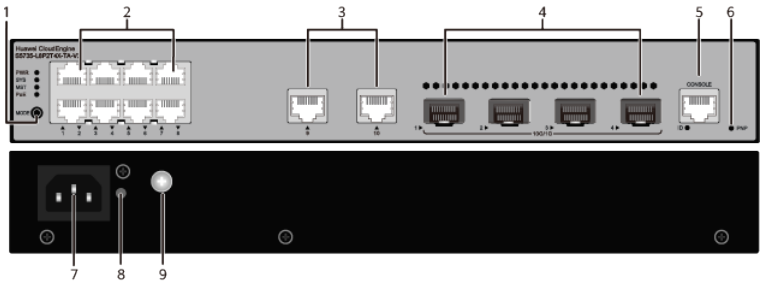
Components

Figure 4-85 S5735-L8P2T4X-TA-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T PoE+ ports
3	Two 10/100/1000BASE-T ports	4	Four 10GE SFP+ ports
5	One console port	6	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
7	AC socket **NOTE** It is used with an **AC power cable**.	8	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.
9	Ground screw **NOTE** It is used with a **ground cable**.	-	-

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Ports

Table 4-221 Ports on the S5735-L8P2T4X-TA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

Figure 4-86 Indicators on the Switch

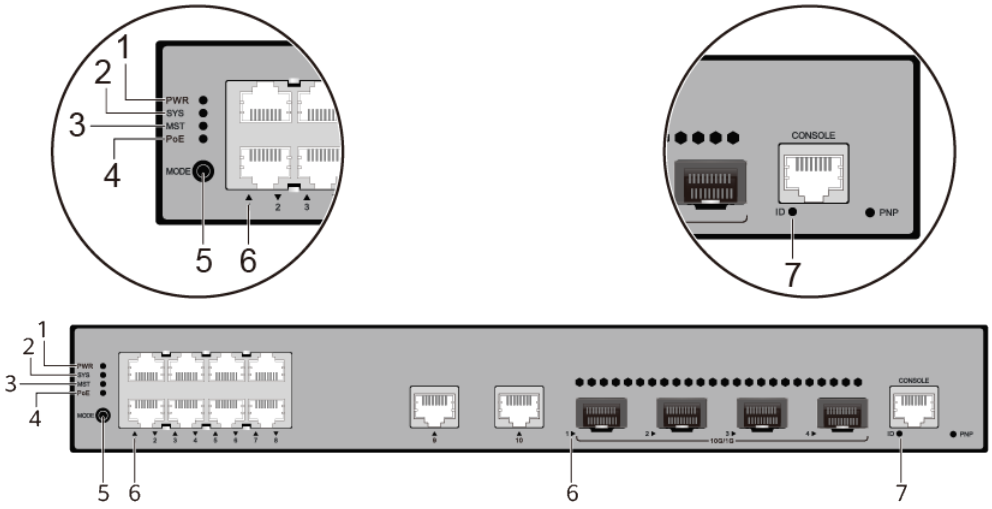

Table 4-222 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.

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No.	Indicator	Name	Color	Status	Description
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.

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No.	Indicator	Name	Color	Status	Description
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-223**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

Table 4-223 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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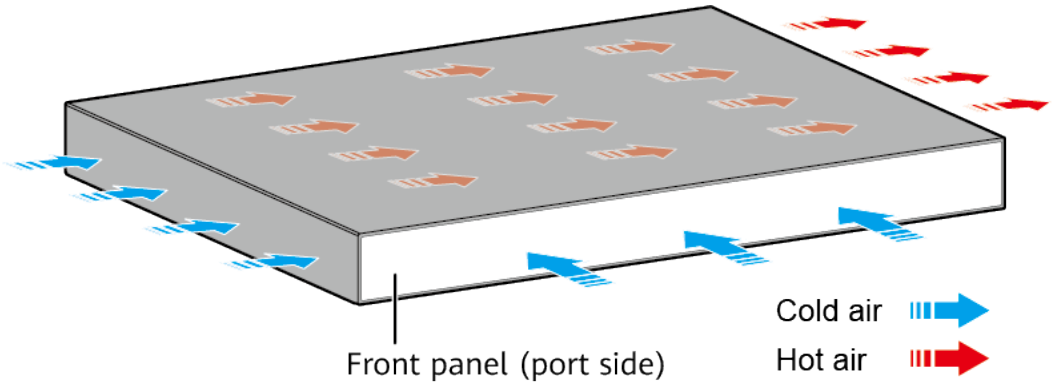

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-224 Technical specifications of the S5735-L8P2T4X-TA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 320.0 mm x 210.0 mm (1.72 in. x 12.6 in. x 8.27 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 320.0 mm x 217.0 mm (1.72 in. x 12.6 in. x 8.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 465.0 mm x 380.0 mm (3.54 in. x 18.31 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.24 kg (4.94 lb)
Weight with packaging [kg(lb)]	3.06 kg (6.75 lb)
Typical power consumption [W]	23.83 W
Typical heat dissipation [BTU/hour]	81.31 BTU/hour
Maximum power consumption [W]	• Without PoE: 32.83 W • Full PoE load: 152.35 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 112.02 • Full PoE load: 519.83

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Item	Specification
Static power consumption [W]	16.75 W
MTBF [years]	67.25 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported

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Item	Specification
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.9 S5735-L10T4X-A-V2 (98011982)

Overview

Table 4-225 Basic information about the S5735-L10T4X-A-V2

Item	Details
Description	S5735-L10T4X-A-V2 (10*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power)
Part Number	98011982
Model	S5735-L10T4X-A-V2
First supported version	V600R022C01

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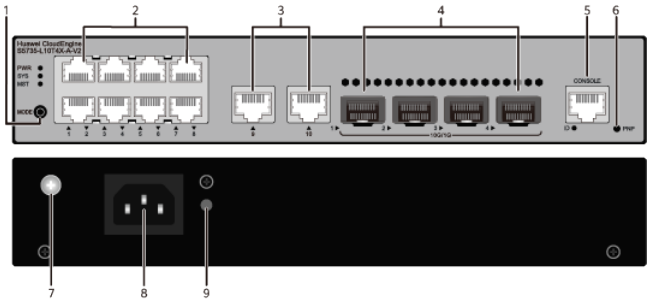
Components

Figure 4-87 S5735-L10T4X-A-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T ports
3	Two 10/100/1000BASE-T ports	4	Four 10GE SFP+ ports
5	One console port	6	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
7	Ground screw **NOTE** It is used with a **ground cable**.	8	AC socket **NOTE** It is used with an **AC power cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	-	-

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Ports

Table 4-226 Ports on the S5735-L10T4X-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L10T4X-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L10T4X-A-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

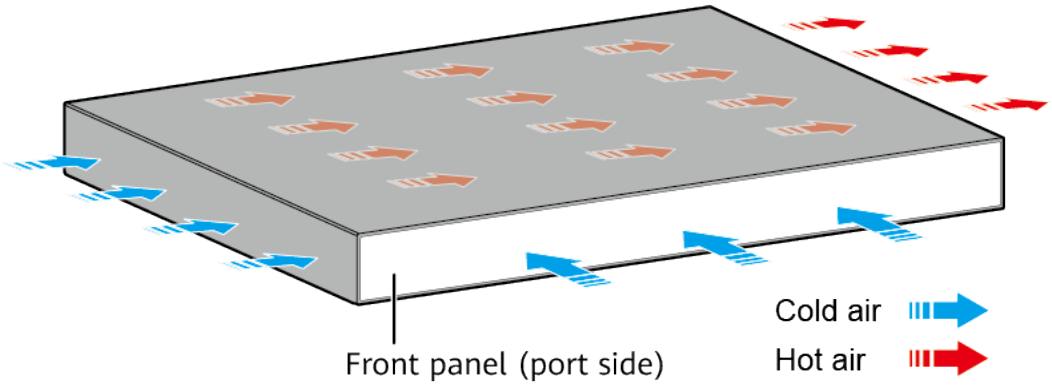
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



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NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-227 Technical specifications of the S5735-L10T4X-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 180.0 mm (1.72 in. x 9.84 in. x 7.09 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 187.0 mm (1.72 in. x 9.84 in. x 7.36 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 370.0 mm x 380.0 mm (3.54 in. x 14.57 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.41 kg (3.11 lb)
Weight with packaging [kg(lb)]	2.22 kg (4.89 lb)
Typical power consumption [W]	19.19 W
Typical heat dissipation [BTU/hour]	65.48 BTU/hour
Maximum power consumption [W]	29.49 W
Maximum heat dissipation [BTU/hour]	100.62 BTU/hour
Static power consumption [W]	12.55 W
MTBF [years]	73.83 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	44.5 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	32.5 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.10 S5735-L10T4X-A-V2 (98011982-001)

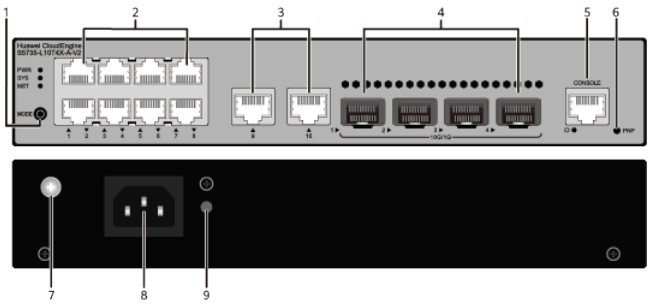
Overview

Table 4-228 Basic information about the S5735-L10T4X-A-V2

Item	Details
Description	S5735-L10T4X-A-V2 (10*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power, Specially protected models)
Part Number	98011982-001
Model	S5735-L10T4X-A-V2
First supported version	V600R022C01

Components

Figure 4-88 S5735-L10T4X-A-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T ports

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3	Two 10/100/1000BASE-T ports	4	Four 10GE SFP+ ports
5	One console port	6	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
7	Ground screw **NOTE** It is used with a **ground cable**.	8	AC socket **NOTE** It is used with an **AC power cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	-	-

Ports

Table 4-229 Ports on the S5735-L10T4X-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L10T4X-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L10T4X-A-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

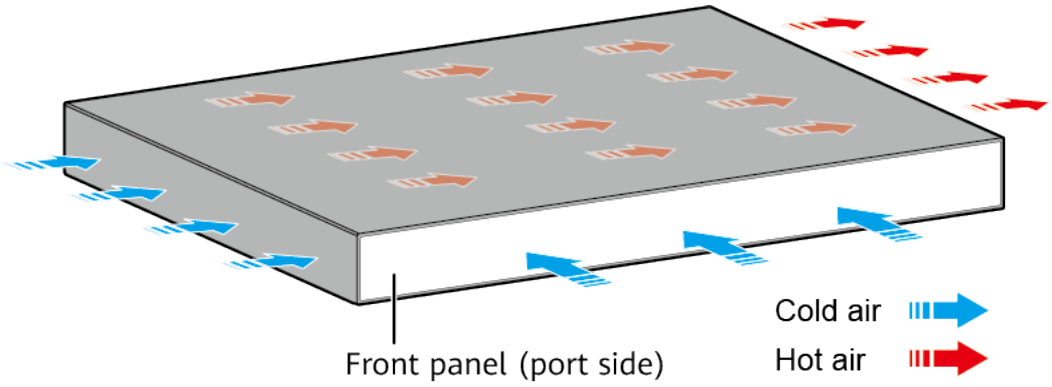
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



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NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-230 Technical specifications of the S5735-L10T4X-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 180.0 mm (1.72 in. x 9.84 in. x 7.09 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 187.0 mm (1.72 in. x 9.84 in. x 7.36 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 370.0 mm x 380.0 mm (3.54 in. x 14.57 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.41 kg (3.11 lb)
Weight with packaging [kg(lb)]	2.22 kg (4.89 lb)
Typical power consumption [W]	19.19 W
Typical heat dissipation [BTU/hour]	65.48 BTU/hour
Maximum power consumption [W]	29.49 W
Maximum heat dissipation [BTU/hour]	100.62 BTU/hour
Static power consumption [W]	12.55 W
MTBF [years]	74.68 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	44.5 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	32.5 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±1 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.11 S5735-L10T4X-TA-V2

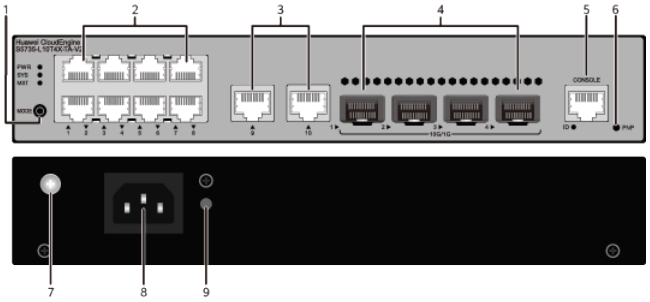
Overview

Table 4-231 Basic information about the S5735-L10T4X-TA-V2

Item	Details
Description	S5735-L10T4X-TA-V2 (10*10/100/1000BASE-T ports, 4*10GE SFP+ ports, HTM, AC power, Only for Overseas)
Part Number	98011983
Model	S5735-L10T4X-TA-V2
First supported version	V600R022C01

Components

Figure 4-89 S5735-L10T4X-TA-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T ports

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3	Two 10/100/1000BASE-T ports	4	Four 10GE SFP+ ports
5	One console port	6	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
7	Ground screw **NOTE** It is used with a **ground cable**.	8	AC socket **NOTE** It is used with an **AC power cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	-	-

Ports

Table 4-232 Ports on the S5735-L10T4X-TA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L10T4X-TA-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L10T4X-TA-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

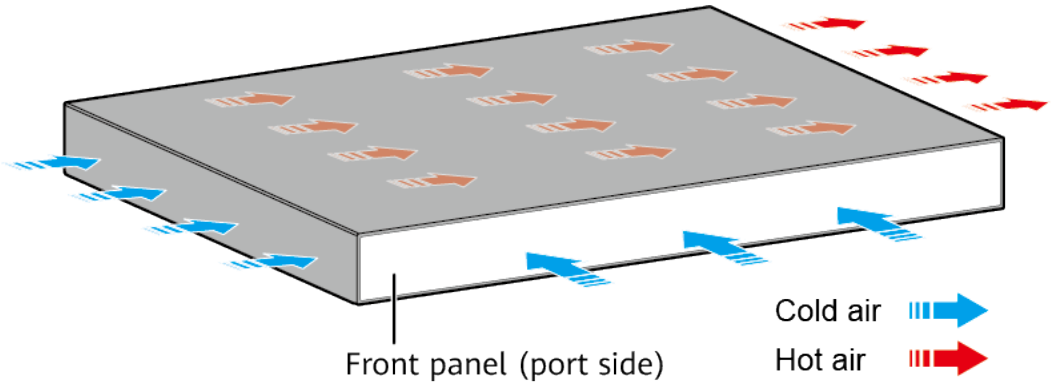
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



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NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-233 Technical specifications of the S5735-L10T4X-TA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 180.0 mm (1.72 in. x 9.84 in. x 7.09 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 187.0 mm (1.72 in. x 9.84 in. x 7.36 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 370.0 mm x 380.0 mm (3.54 in. x 14.57 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.41 kg (3.11 lb)
Weight with packaging [kg(lb)]	2.22 kg (4.89 lb)
Typical power consumption [W]	19.24 W
Typical heat dissipation [BTU/hour]	65.65 BTU/hour
Maximum power consumption [W]	29.54 W
Maximum heat dissipation [BTU/hour]	100.79 BTU/hour
Static power consumption [W]	12.6 W
MTBF [years]	72.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	44.5 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	32.5 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.12 S5735-L14P2S-QA-V2

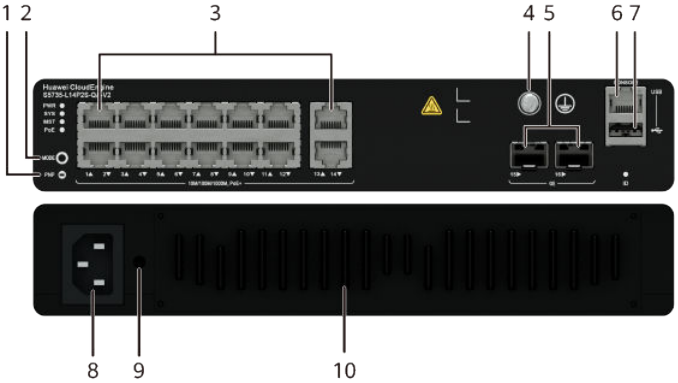
Overview

Table 4-234 Basic information about the S5735-L14P2S-QA-V2

Item	Details
Description	S5735-L14P2S-QA-V2 (14*10/100/1000BASE-T ports, 2*GE SFP ports, PoE+, 247 W PoE, built-in AC power, Fanless)
Part Number	98012236
Model	S5735-L14P2S-QA-V2
First supported version	V600R023C00

Components

Figure 4-90 S5735-L14P2S-QA-V2 appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Fourteen 10/100/1000BASE-T PoE+ ports	4	Ground screw **NOTE** It is used with a **ground cable**.
5	Two 100/1000BASE-X ports	6	One console port
7	One USB port	8	AC socket **NOTE** It is used with an **AC power cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	Radiator

Ports

Table 4-235 Ports on the S5735-L14P2S-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper module**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L14P2S-QA-V2 has similar indicators to those on the S5735-L16LP2UM2X-QA-V2. For details, see the S5735-L16LP2UM2X-QA-V2.

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Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 247 W PoE power, which ensures full PoE power on 14 ports in compliance with 802.3af or on 8 ports in compliance with 802.3at.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-236 Technical specifications of the S5735-L14P2S-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 245.0 mm (1.72 in. x 9.84 in. x 9.65 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 250.0 mm (1.72 in. x 9.84 in. x 9.84 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	110 mm x 300 mm x 355 mm (4.33 in. x 11.81 in. x 13.98 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.58 kg (5.69 lb)
Weight with packaging [kg(lb)]	3.2 kg (7.05 lb)
Typical power consumption [W]	21.67 W
Typical heat dissipation [BTU/hour]	73.94 BTU/hour
Maximum power consumption [W]	• Without PoE: 26.02 W • Full PoE load: 292.10 W (PoE: 247 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 88.78 • Full PoE load: 996.57
Static power consumption [W]	14.88 W
MTBF [years]	59.25 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported

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Item	Specification
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP30
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.13 S5735-L14P2S-TQA-V2

Overview

Table 4-237 Basic information about the S5735-L14P2S-TQA-V2

Item	Details
Description	S5735-L14P2S-TQA-V2 (14*10/100/1000BASE-T ports, 2*GE SFP ports, PoE+, 247 W PoE, built-in AC power, Fanless, HTM)
Part Number	98012275
Model	S5735-L14P2S-TQA-V2
First supported version	V600R023C00

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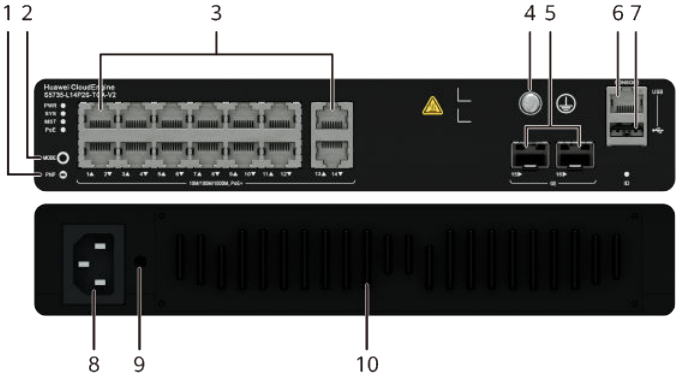
Components

Figure 4-91 S5735-L14P2S-TQA-V2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Fourteen 10/100/1000BASE-T PoE+ ports	4	Ground screw **NOTE** It is used with a **ground cable**.
5	Two 100/1000BASE-X ports	6	One console port
7	One USB port	8	AC socket **NOTE** It is used with an **AC power cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	Radiator

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Ports

Table 4-238 Ports on the S5735-L14P2S-TQA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper module**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L14P2S-TQA-V2 has similar indicators to those on the S5735-L16LP2UM2X-QA-V2. For details, see the S5735-L16LP2UM2X-QA-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 247 W PoE power, which ensures full PoE power on 14 ports in compliance with 802.3af or on 8 ports in compliance with 802.3at.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-239 Technical specifications of the S5735-L14P2S-TQA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 245.0 mm (1.72 in. x 9.84 in. x 9.65 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 250.0 mm (1.72 in. x 9.84 in. x 9.84 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	110 mm x 300 mm x 355 mm (4.33 in. x 11.81 in. x 13.98 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.6 kg (5.73 lb)
Weight with packaging [kg(lb)]	3.22 kg (7.1 lb)
Typical power consumption [W]	21.87 W
Typical heat dissipation [BTU/hour]	74.62 BTU/hour
Maximum power consumption [W]	• Without PoE: 26.22 W • Full PoE load: 292.30 W (PoE: 247 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 89.46 • Full PoE load: 997.36
Static power consumption [W]	15.08 W
MTBF [years]	60.66 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP30

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Item	Specification
Types of fans	Built-in
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.14 S5735-L16T4S-A-V2 (98011995)

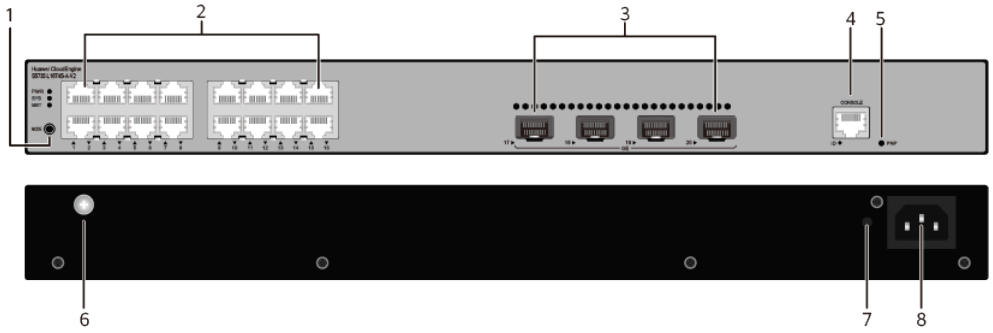
Overview

Table 4-240 Basic information about the S5735-L16T4S-A-V2

Item	Details
Description	S5735-L16T4S-A-V2 (16*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
Part Number	98011995
Model	S5735-L16T4S-A-V2
First supported version	V600R022C01

Components

Figure 4-92 S5735-L16T4S-A-V2 appearance



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1	One MODE button	2	Sixteen 10/100/1000BASE-T ports
3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-241 Ports on the S5735-L16T4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration**

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Port	Connector Type	Description	Available Components
			stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L16T4S-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L16T4S-A-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

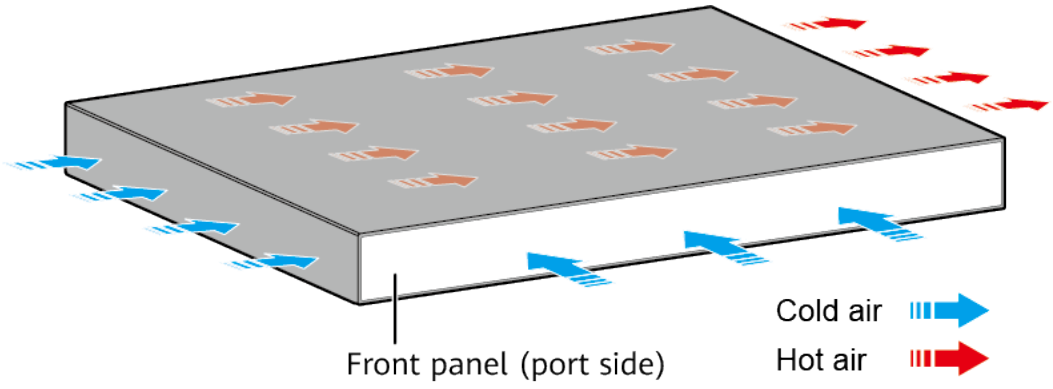
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-242 Technical specifications of the S5735-L16T4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.22 kg (4.89 lb)
Weight with packaging [kg(lb)]	3.34 kg (7.36 lb)
Typical power consumption [W]	21.17 W
Typical heat dissipation [BTU/hour]	72.23 BTU/hour
Maximum power consumption [W]	28.84 W
Maximum heat dissipation [BTU/hour]	98.4 BTU/hour
Static power consumption [W]	13.8 W
MTBF [years]	72.43 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.8.15 S5735-L16T4S-A-V2 (98011995-001)

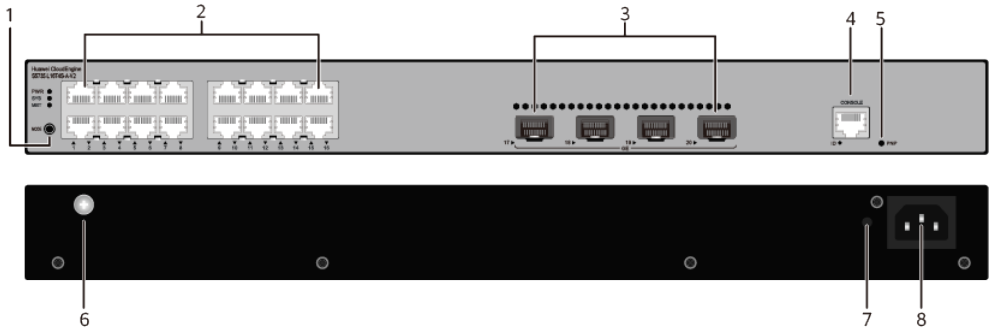
Overview

Table 4-243 Basic information about the S5735-L16T4S-A-V2

Item	Details
Description	S5735-L16T4S-A-V2 (16*10/100/1000BASE-T ports, 4*GE SFP ports, AC power, Specially protected models)
Part Number	98011995-001
Model	S5735-L16T4S-A-V2
First supported version	V600R024C10

Components

Figure 4-93 S5735-L16T4S-A-V2 appearance



1	One MODE button	2	Sixteen 10/100/1000BASE-T ports
3	Four 1000BASE-X ports	4	One console port

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5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-244 Ports on the S5735-L16T4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L16T4S-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L16T4S-A-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

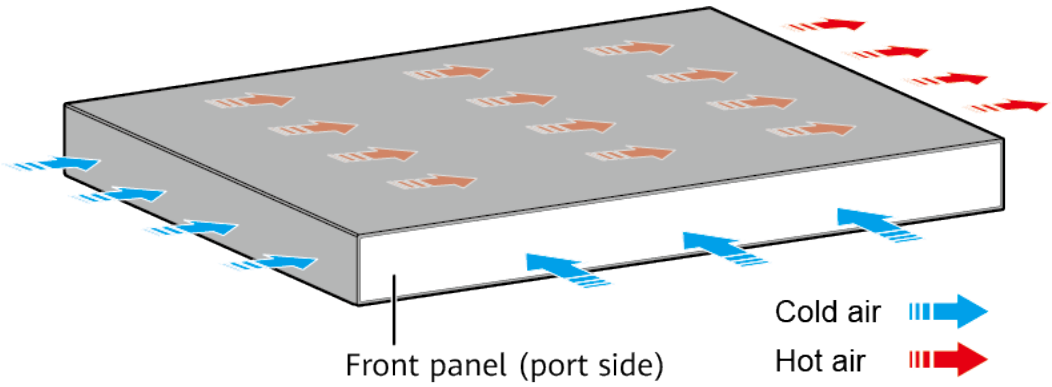
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-245 Technical specifications of the S5735-L16T4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.22 kg (4.89 lb)
Weight with packaging [kg(lb)]	3.34 kg (7.36 lb)
Typical power consumption [W]	21.17 W
Typical heat dissipation [BTU/hour]	72.23 BTU/hour
Maximum power consumption [W]	28.84 W
Maximum heat dissipation [BTU/hour]	98.4 BTU/hour
Static power consumption [W]	13.8 W
MTBF [years]	72.43 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.8.16 S5735-L16T4X-QA-V2 (98011996)

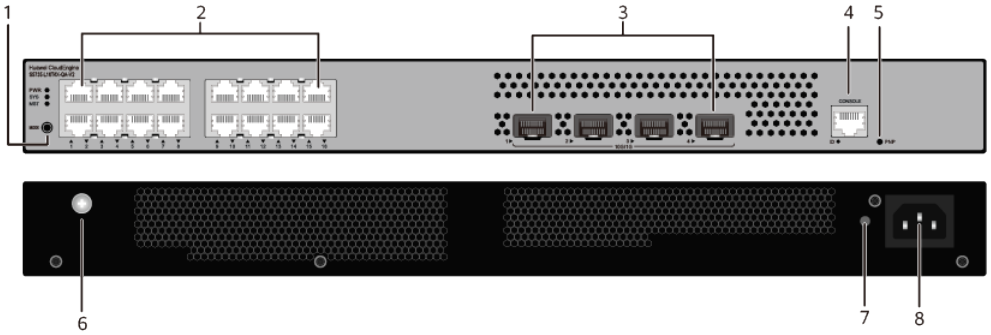
Overview

Table 4-246 Basic information about the S5735-L16T4X-QA-V2

Item	Details
Description	S5735-L16T4X-QA-V2 (16*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power, Fanless)
Part Number	98011996
Model	S5735-L16T4X-QA-V2
First supported version	V600R022C01

Components

Figure 4-94 S5735-L16T4X-QA-V2 appearance



1	One MODE button	2	Sixteen 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	One console port

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5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-247 Ports on the S5735-L16T4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-**

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Port	Connector Type	Description	Available Components
			configuration stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L16T4X-QA-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L16T4X-QA-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-248 Technical specifications of the S5735-L16T4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal

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Item	Specification
Weight without packaging [kg(lb)]	2.34 kg (5.16 lb)
Weight with packaging [kg(lb)]	3.46 kg (7.63 lb)
Typical power consumption [W]	21.42 W
Typical heat dissipation [BTU/hour]	73.09 BTU/hour
Maximum power consumption [W]	24.29 W
Maximum heat dissipation [BTU/hour]	82.88 BTU/hour
Static power consumption [W]	13.33 W
MTBF [years]	73.24 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz

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Item	Specification
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.17 S5735-L16T4X-QA-V2 (98011996-001)

Overview

Table 4-249 Basic information about the S5735-L16T4X-QA-V2

Item	Details
Description	S5735-L16T4X-QA-V2 (16*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power, Fanless, Specially protected models)

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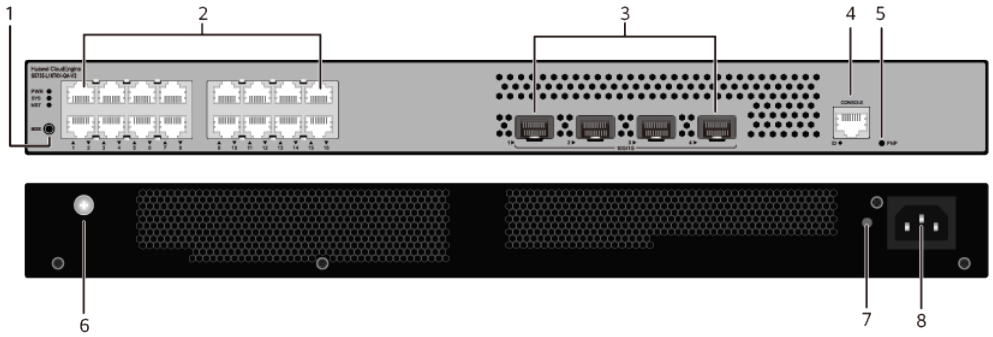
Item	Details
Part Number	98011996-001
Model	S5735-L16T4X-QA-V2
First supported version	V600R024C10

Components

Figure 4-95 S5735-L16T4X-QA-V2 appearance



1	One MODE button	2	Sixteen 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-250 Ports on the S5735-L16T4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Indicators and Buttons

The S5735-L16T4X-QA-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L16T4X-QA-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-251 Technical specifications of the S5735-L16T4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.34 kg (5.16 lb)
Weight with packaging [kg(lb)]	3.46 kg (7.63 lb)
Typical power consumption [W]	21.42 W
Typical heat dissipation [BTU/hour]	73.09 BTU/hour
Maximum power consumption [W]	24.29 W
Maximum heat dissipation [BTU/hour]	82.88 BTU/hour
Static power consumption [W]	13.33 W
MTBF [years]	73.24 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.18 S5735-L16LP2X-QA-V2

Overview

Table 4-252 Basic information about the S5735-L16LP2X-QA-V2

Item	Details
Description	S5735-L16LP2X-QA-V2 (16*10/100/1000BASE-T ports, 2*10GE SFP+ ports, PoE+, 125 W PoE, built-in AC power, Fanless)
Part Number	98012237
Model	S5735-L16LP2X-QA-V2
First supported version	V600R023C00

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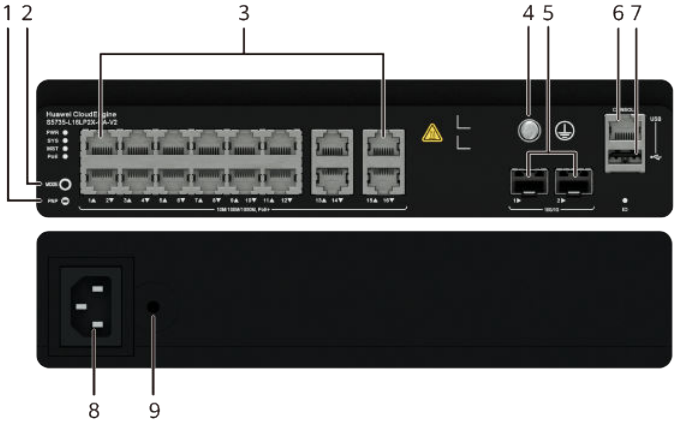
Components

Figure 4-96 S5735-L16LP2X-QA-V2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Sixteen 10/100/1000BASE-T PoE+ ports	4	Ground screw **NOTE** It is used with a **ground cable**.
5	Two 10GE SFP+ ports	6	One console port
7	One USB port	8	AC socket **NOTE** It is used with an **AC power cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	-	-

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Ports

Table 4-253 Ports on the S5735-L16LP2X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L16LP2X-QA-V2 has similar indicators to those on the S5735-L16LP2UM2X-QA-V2. For details, see the S5735-L16LP2UM2X-QA-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-254 Technical specifications of the S5735-L16LP2X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 54.0 mm x 250.0 mm x 220.0 mm (2.13 in. x 9.84 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 54.0 mm x 250.0 mm x 225.0 mm (2.13 in. x 9.84 in. x 8.86 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	110 mm x 300 mm x 355 mm (4.33 in. x 11.81 in. x 13.98 in.)
Chassis height [U]	1.2 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.75 kg (6.06 lb)
Weight with packaging [kg(lb)]	3.35 kg (7.39 lb)
Typical power consumption [W]	20.7 W
Typical heat dissipation [BTU/hour]	70.63 BTU/hour
Maximum power consumption [W]	• Without PoE: 25.41 W • Full PoE load: 162.82 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 86.70 • Full PoE load: 555.56
Static power consumption [W]	20.7 W
MTBF [years]	59.41 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90–290 V AC; 45–65 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-

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Item	Specification
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.19 S5735-L16LP2UM2X-QA-V2

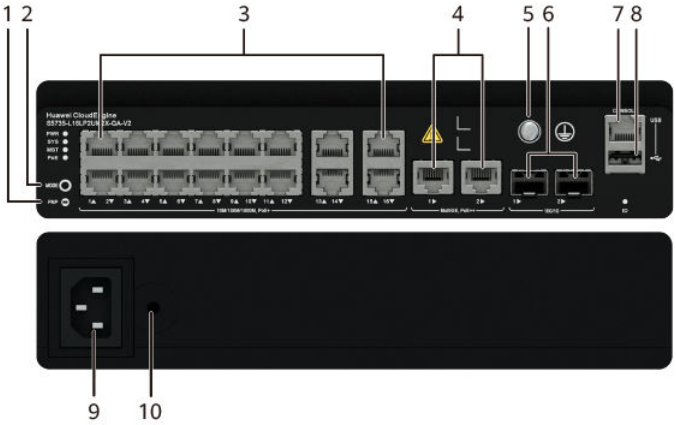
Overview

Table 4-255 Basic information about the S5735-L16LP2UM2X-QA-V2

Item	Details
Description	S5735-L16LP2UM2X-QA-V2 (16*10/100/1000BASE-T ports(PoE+), 2*100M/1G/2.5G/5G/10G Ethernet ports(PoE++), 2*10GE SFP+ ports, 125 W PoE, built-in AC power, Fanless)
Part Number	98012239
Model	S5735-L16LP2UM2X-QA-V2
First supported version	V600R023C00

Components

Figure 4-97 S5735-L16LP2UM2X-QA-V2 appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Sixteen 10/100/1000BASE-T PoE+ ports	4	Two 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)
5	Ground screw **NOTE** It is used with a **ground cable**.	6	Two 10GE SFP+ ports
7	One console port	8	One USB port
9	AC socket **NOTE** It is used with an **AC power cable**.	10	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.

Ports

Table 4-256 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

Table 4-257 Ports on the S5735-L16LP2UM2X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s, and must use an Ethernet cable.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-98 Indicators on the Switch

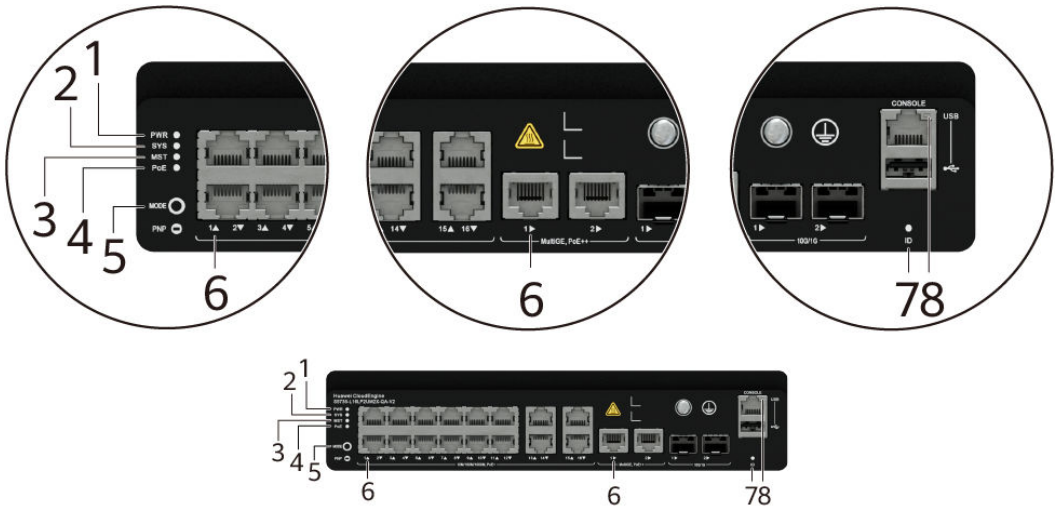

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Table 4-258 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-259**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-259 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 100/1000BASE-X port: The port is operating at 100 Mbit/s. • 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, or 5 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 100/1000BASE-X port: The port is operating at 1000 Mbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s. • 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 10 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

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Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af, 4 ports in compliance with 802.3at, 2 ports in compliance with 802.3bt (60 W per port), or 1 port in compliance with 802.3bt (90 W per port).

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-260 Technical specifications of the S5735-L16LP2UM2X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 54.0 mm x 250.0 mm x 220.0 mm (2.13 in. x 9.84 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 54.0 mm x 250.0 mm x 225.0 mm (2.13 in. x 9.84 in. x 8.86 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	110 mm x 300 mm x 355 mm (4.33 in. x 11.81 in. x 13.98 in.)
Chassis height [U]	1.2 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.81 kg (6.2 lb)
Weight with packaging [kg(lb)]	3.4 kg (7.5 lb)
Typical power consumption [W]	24.37 W
Typical heat dissipation [BTU/hour]	83.15 BTU/hour
Maximum power consumption [W]	• Without PoE: 29.20 W • Full PoE load: 166.40 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 99.63 • Full PoE load: 567.77
Static power consumption [W]	24.37 W
MTBF [years]	55.16 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90–290 V AC; 45–65 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.20 S5735-L16P2UM2X-QA-V2

Overview

Table 4-261 Basic information about the S5735-L16P2UM2X-QA-V2

Item	Details
Description	S5735-L16P2UM2X-QA-V2 (16*10/100/1000BASE-T ports(PoE+), 2*100M/1G/2.5G/5G/10G Ethernet ports(PoE++), 2*10GE SFP+ ports, 247 W PoE, built-in AC power, Fanless)
Part Number	98012238
Model	S5735-L16P2UM2X-QA-V2
First supported version	V600R023C00

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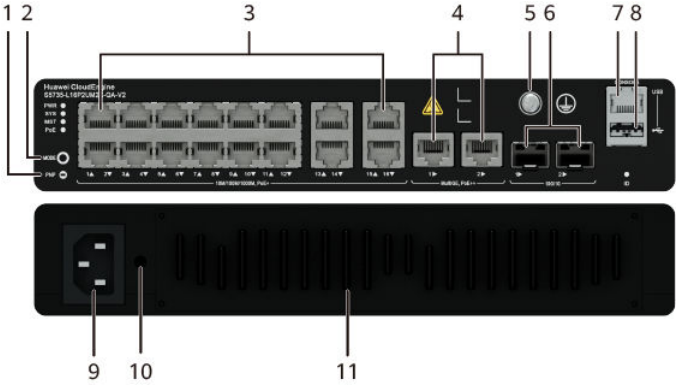
Components

Figure 4-99 S5735-L16P2UM2X-QA-V2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Sixteen 10/100/1000BASE-T PoE+ ports	4	Two 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)
5	Ground screw **NOTE** It is used with a **ground cable**.	6	Two 10GE SFP+ ports
7	One console port	8	One USB port
9	AC socket **NOTE** It is used with an **AC power cable**.	10	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.
11	Radiator	-	-

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Ports

Table 4-262 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

Table 4-263 Ports on the S5735-L16P2UM2X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s, and must use an Ethernet cable.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L16P2UM2X-QA-V2 has similar indicators to those on the S5735-L16LP2UM2X-QA-V2. For details, see the S5735-L16LP2UM2X-QA-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 247 W PoE power, which ensures full PoE power on 16 ports in compliance with 802.3af, 8 ports in compliance with 802.3at, 2 ports in compliance with 802.3bt (60 W per port), or 2 ports in compliance with 802.3bt (90 W per port).

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-264 Technical specifications of the S5735-L16P2UM2X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 245.0 mm (1.72 in. x 9.84 in. x 9.65 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 250.0 mm (1.72 in. x 9.84 in. x 9.84 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	110 mm x 300 mm x 355 mm (4.33 in. x 11.81 in. x 13.98 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.65 kg (5.84 lb)
Weight with packaging [kg(lb)]	3.3 kg (7.28 lb)
Typical power consumption [W]	24.6 W
Typical heat dissipation [BTU/hour]	83.94 BTU/hour
Maximum power consumption [W]	• Without PoE: 29.80 W • Full PoE load: 296.12 W (PoE: 247 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 101.68 • Full PoE load: 1010.39
Static power consumption [W]	24.6 W
MTBF [years]	55.2 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP30

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Item	Specification
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.21 S5735-L24T4S-A-V2 (98012004)

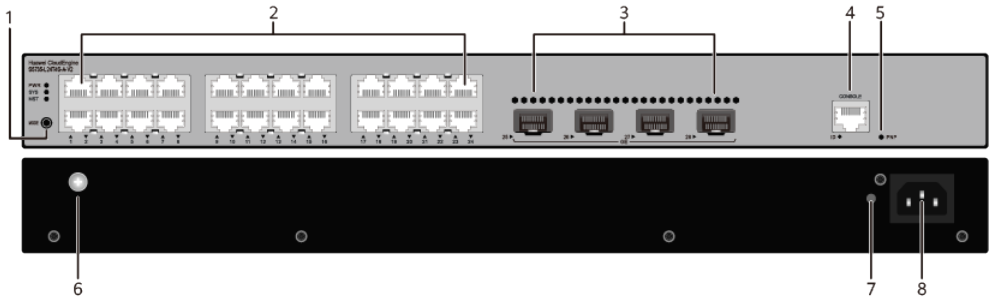
Overview

Table 4-265 Basic information about the S5735-L24T4S-A-V2

Item	Details
Description	S5735-L24T4S-A-V2 (24*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
Part Number	98012004
Model	S5735-L24T4S-A-V2
First supported version	V600R022C01

Components

Figure 4-100 S5735-L24T4S-A-V2 appearance



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1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-266 Ports on the S5735-L24T4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration**

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Port	Connector Type	Description	Available Components
			stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L24T4S-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L24T4S-A-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

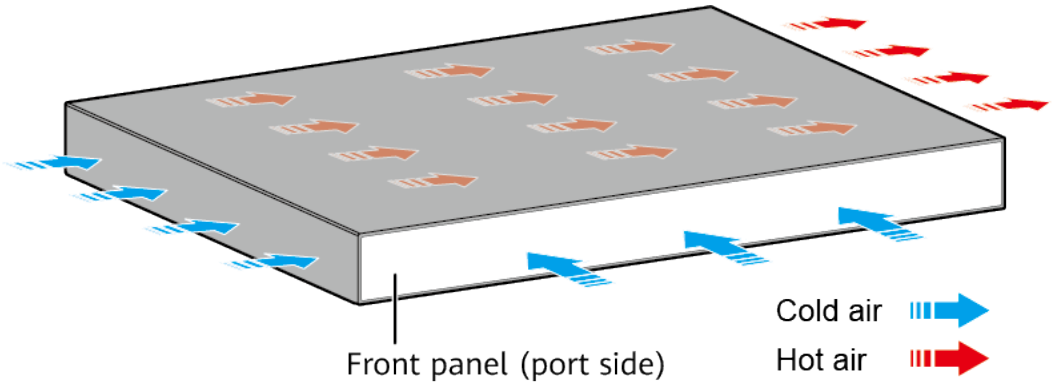
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-267 Technical specifications of the S5735-L24T4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.32 kg (5.11 lb)
Weight with packaging [kg(lb)]	3.44 kg (7.58 lb)
Typical power consumption [W]	26.37 W
Typical heat dissipation [BTU/hour]	89.98 BTU/hour
Maximum power consumption [W]	34.04 W
Maximum heat dissipation [BTU/hour]	116.15 BTU/hour
Static power consumption [W]	19.00 W
MTBF [years]	70.75 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.8.22 S5735-L24T4S-A-V2 (98012004-002)

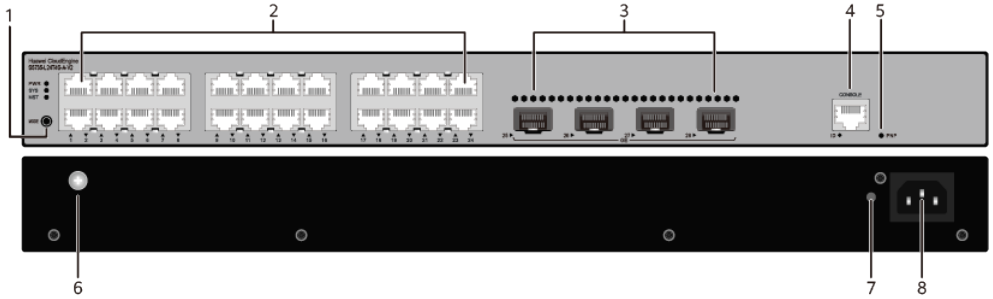
Overview

Table 4-268 Basic information about the S5735-L24T4S-A-V2

Item	Details
Description	S5735-L24T4S-A-V2 (24*10/100/1000BASE-T ports, 4*GE SFP ports, AC power, Specially protected models)
Part Number	98012004-002
Model	S5735-L24T4S-A-V2
First supported version	V600R024C10

Components

Figure 4-101 S5735-L24T4S-A-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 1000BASE-X ports	4	One console port

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5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-269 Ports on the S5735-L24T4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L24T4S-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L24T4S-A-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

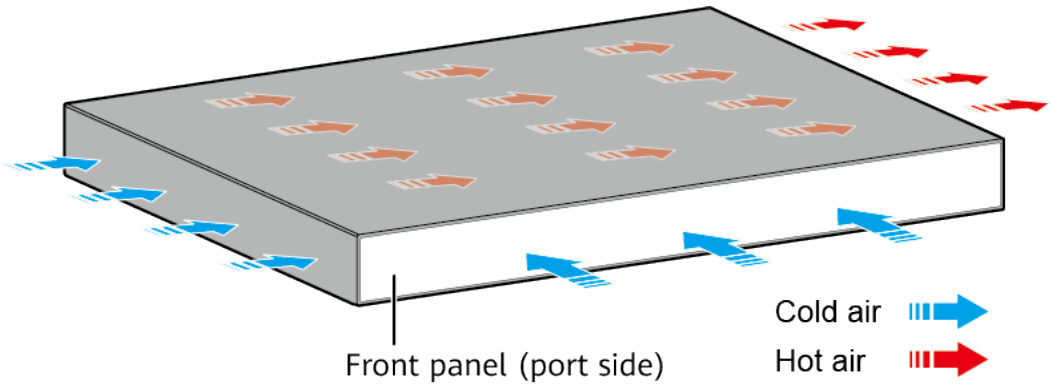
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-270 Technical specifications of the S5735-L24T4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.32 kg (5.11 lb)
Weight with packaging [kg(lb)]	3.44 kg (7.58 lb)
Typical power consumption [W]	26.37 W
Typical heat dissipation [BTU/hour]	89.98 BTU/hour
Maximum power consumption [W]	34.04 W
Maximum heat dissipation [BTU/hour]	116.15 BTU/hour
Static power consumption [W]	19.00 W
MTBF [years]	70.75 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.8.23 S5735-L24T4X-QA-V2

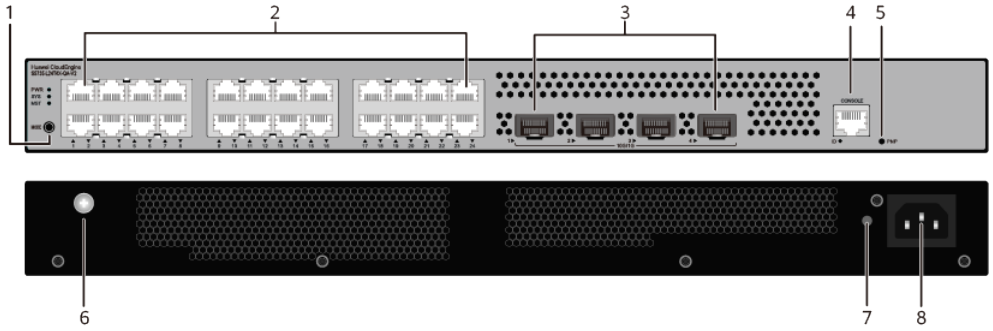
Overview

Table 4-271 Basic information about the S5735-L24T4X-QA-V2

Item	Details
Description	S5735-L24T4X-QA-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power, Fanless)
Part Number	98012075
Model	S5735-L24T4X-QA-V2
First supported version	V600R022C01

Components

Figure 4-102 S5735-L24T4X-QA-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	One console port

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5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-272 Ports on the S5735-L24T4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-**

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Port	Connector Type	Description	Available Components
			configuration stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L24T4X-QA-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735-L24T4X-QA-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-273 Technical specifications of the S5735-L24T4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal

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Item	Specification
Weight without packaging [kg(lb)]	2.36 kg (5.2 lb)
Weight with packaging [kg(lb)]	3.48 kg (7.67 lb)
Typical power consumption [W]	26.13 W
Typical heat dissipation [BTU/hour]	89.16 BTU/hour
Maximum power consumption [W]	29.96 W
Maximum heat dissipation [BTU/hour]	102.23 BTU/hour
Static power consumption [W]	14.94 W
MTBF [years]	71.51 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz

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Item	Specification
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.24 S5735-L24T4XE-A-V2 (98012011)

Overview

Table 4-274 Basic information about the S5735-L24T4XE-A-V2

Item	Details
Description	S5735-L24T4XE-A-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, AC power)

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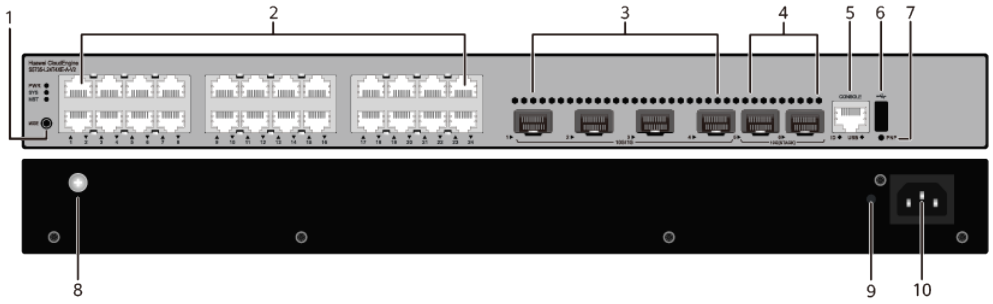
Item	Details
Part Number	98012011
Model	S5735-L24T4XE-A-V2
First supported version	V600R022C01

Components

Figure 4-103 S5735-L24T4XE-A-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-275 Ports on the S5735-L24T4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L24T4XE-A-V2 has similar indicators to those on the S5735-L24P4XE-A-V2 except that the S5735-L24T4XE-A-V2 does not have a PoE mode indicator. For details, see the S5735-L24P4XE-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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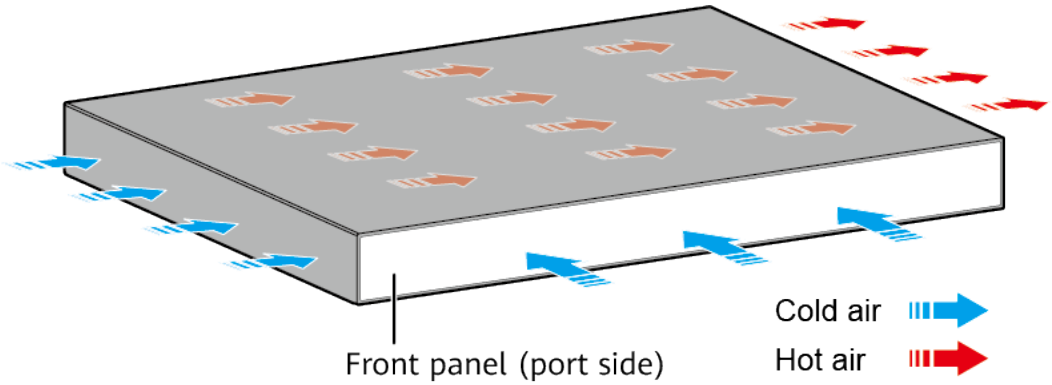

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-276 Technical specifications of the S5735-L24T4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.34 kg (5.16 lb)
Weight with packaging [kg(lb)]	3.46 kg (7.63 lb)
Typical power consumption [W]	28.48 W
Typical heat dissipation [BTU/hour]	97.18 BTU/hour
Maximum power consumption [W]	37.03 W
Maximum heat dissipation [BTU/hour]	126.36 BTU/hour
Static power consumption [W]	17.53 W
MTBF [years]	68.70 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.25 S5735-L24T4XE-A-V2 (98012011-001)

Overview

Table 4-277 Basic information about the S5735-L24T4XE-A-V2

Item	Details
Description	S5735-L24T4XE-A-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, AC power, Specially protected models)
Part Number	98012011-001
Model	S5735-L24T4XE-A-V2
First supported version	V600R022C01

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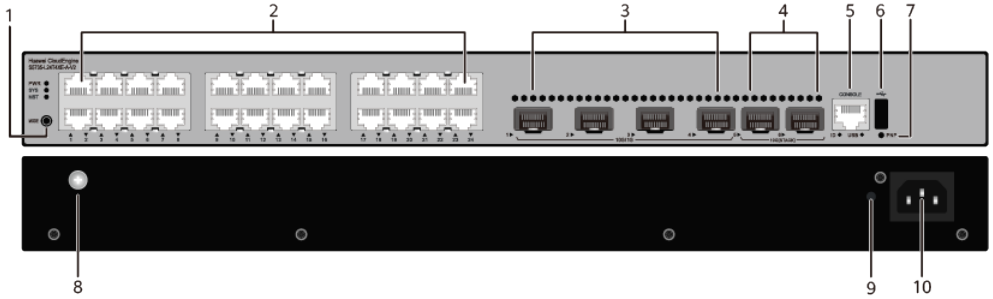
Components

Figure 4-104 S5735-L24T4XE-A-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-278 Ports on the S5735-L24T4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L24T4XE-A-V2 has similar indicators to those on the S5735-L24P4XE-A-V2 except that the S5735-L24T4XE-A-V2 does not have a PoE mode indicator. For details, see the S5735-L24P4XE-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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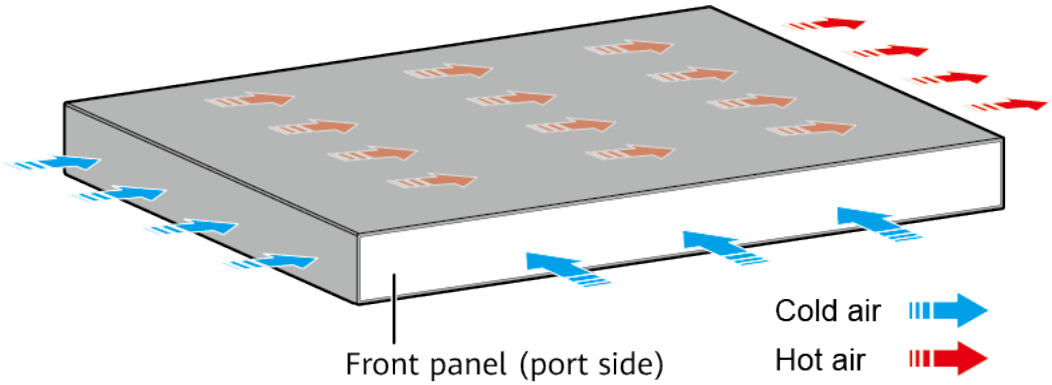

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-279 Technical specifications of the S5735-L24T4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.34 kg (5.16 lb)
Weight with packaging [kg(lb)]	3.46 kg (7.63 lb)
Typical power consumption [W]	28.48 W
Typical heat dissipation [BTU/hour]	97.18 BTU/hour
Maximum power consumption [W]	37.03 W
Maximum heat dissipation [BTU/hour]	126.36 BTU/hour
Static power consumption [W]	17.53 W
MTBF [years]	70.00 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±1 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.26 S5735-L24T4XE-A-V2 (98012011-004)

Overview

Table 4-280 Basic information about the S5735-L24T4XE-A-V2

Item	Details
Description	S5735-L24T4XE-A-V2 WB (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, AC power)
Part Number	98012011-004
Model	S5735-L24T4XE-A-V2
First supported version	V600R022C01

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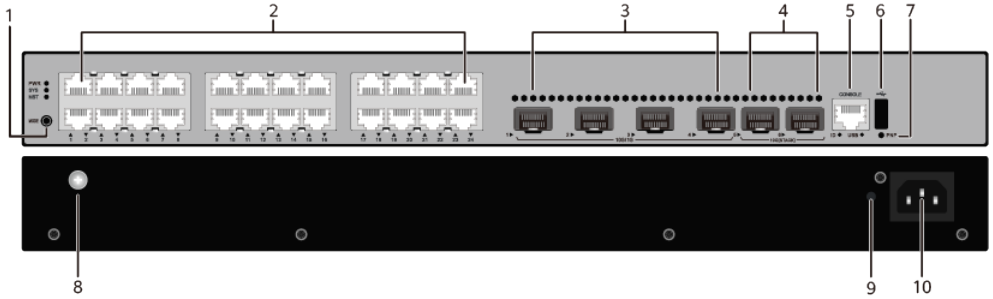
Components

Figure 4-105 S5735-L24T4XE-A-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-281 Ports on the S5735-L24T4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L24T4XE-A-V2 has similar indicators to those on the S5735-L24P4XE-A-V2 except that the S5735-L24T4XE-A-V2 does not have a PoE mode indicator. For details, see the S5735-L24P4XE-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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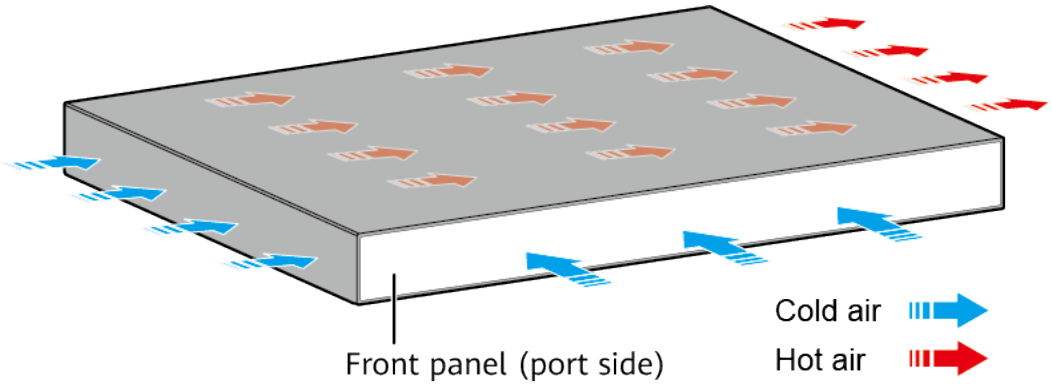

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-282 Technical specifications of the S5735-L24T4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.34 kg (5.16 lb)
Weight with packaging [kg(lb)]	3.46 kg (7.63 lb)
Typical power consumption [W]	28.48 W
Typical heat dissipation [BTU/hour]	97.18 BTU/hour
Maximum power consumption [W]	37.03 W
Maximum heat dissipation [BTU/hour]	126.36 BTU/hour
Static power consumption [W]	17.53 W
MTBF [years]	68.70 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.27 S5735-L24T4XE-D-V2

Overview

Table 4-283 Basic information about the S5735-L24T4XE-D-V2

Item	Details
Description	S5735-L24T4XE-D-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, DC power)
Part Number	98012013
Model	S5735-L24T4XE-D-V2
First supported version	V600R022C01

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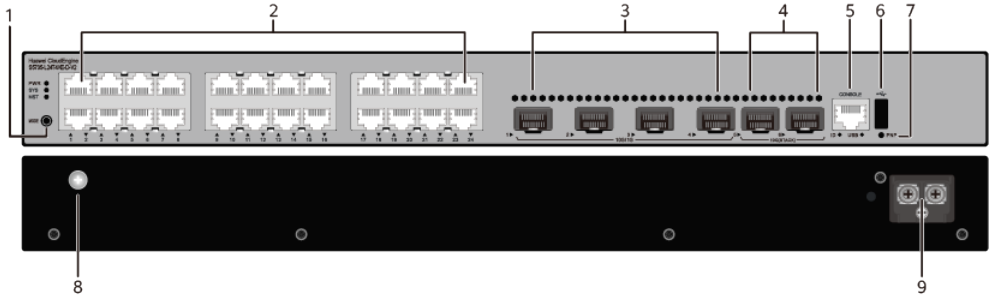
Components

Figure 4-106 S5735-L24T4XE-D-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	DC power terminal **NOTE** It is used with **DC Power Cable**.	-	-

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Ports

Table 4-284 Ports on the S5735-L24T4XE-D-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L24T4XE-D-V2 has similar indicators to those on the S5735-L24P4XE-A-V2 except that the S5735-L24T4XE-D-V2 does not have a PoE mode indicator. For details, see the S5735-L24P4XE-A-V2.

Power Supply System

The switch has a built-in DC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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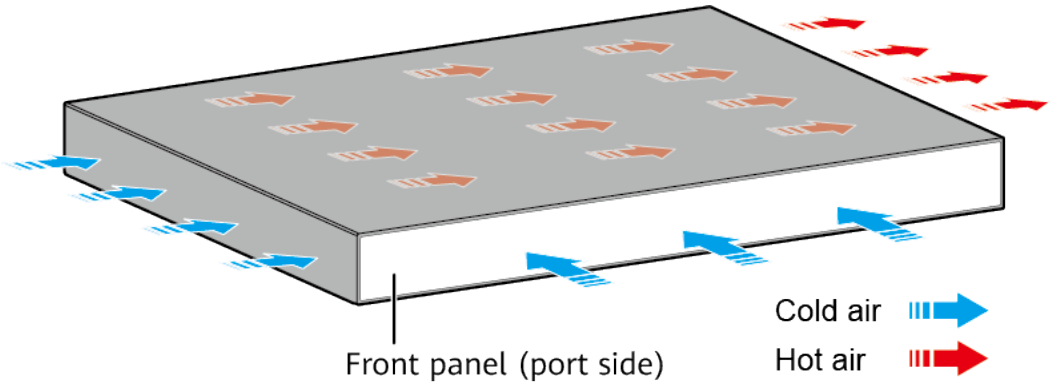

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-285 Technical specifications of the S5735-L24T4XE-D-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.32 kg (5.11 lb)
Weight with packaging [kg(lb)]	3.44 kg (7.58 lb)
Typical power consumption [W]	30.61 W
Typical heat dissipation [BTU/hour]	104.44 BTU/hour
Maximum power consumption [W]	36.33 W
Maximum heat dissipation [BTU/hour]	123.96 BTU/hour
Static power consumption [W]	22.06 W
MTBF [years]	68.70 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC built-in
Rated input voltage [V]	-48 V DC to -60 V DC
Input voltage range [V]	–38.4 V DC to –72 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV

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Item	Specification
Power supply surge protection [kV]	±2 kV in differential mode, ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.28 S5735-L24T8J4XE-A-V2

Overview

Table 4-286 Basic information about the S5735-L24T8J4XE-A-V2

Item	Details
Description	S5735-L24T8J4XE-A-V2 (24*10/100/1000BASE-T ports, 8*2.5GE/GE/100M SFP ports (or 2*10GE SFP+ ports), 4*10GE SFP+ ports, 2*12GE stack ports, built-in AC power)
Part Number	98012430
Model	S5735-L24T8J4XE-A-V2
First supported version	V600R024C00

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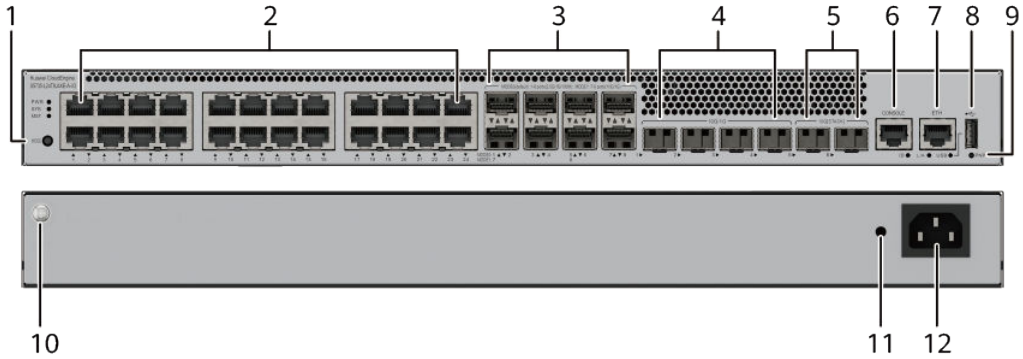
Components

Figure 4-107 S5735-L24T8J4XE-A-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Eight 2.5GE SFP ports **NOTE** You can run the **port combination-mode** command to switch between two rate modes: • MODE0: Ports 1 to 8 support the rate of 2.5 Gbit/s, 1 Gbit/s, or 100 Mbit/s, but do not support the rate of 10 Gbit/s. • MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 in MODE0) support the rate of 10 Gbit/s or 1 Gbit/s, but do not support the rate of 2.5 Gbit/s or 100 Mbit/s. The other six ports are unavailable.	4	Four 10GE SFP+ ports
5	Two stack ports	6	One console port
7	One ETH management port	8	One USB port
9	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	10	Ground screw **NOTE** It is used with a **ground cable**.

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1 1	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	1 2	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-287 Ports on the S5735-L24T8J4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
2.5GE/GE/100M SFP optical port	SFP	A 2.5GE/GE/100M SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s. Two rate modes are supported: MODE0: Ports 1 to 8 support the rate of 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s, but do not support the rate of 10 Gbit/s. MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 of MODE0) support the rate of 1000 Mbit/s or 10 Gbit/s, but do not support the rate of 100 Mbit/s or 2.5 Gbit/s. The other six ports are unavailable.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-108 Indicators on the Switch

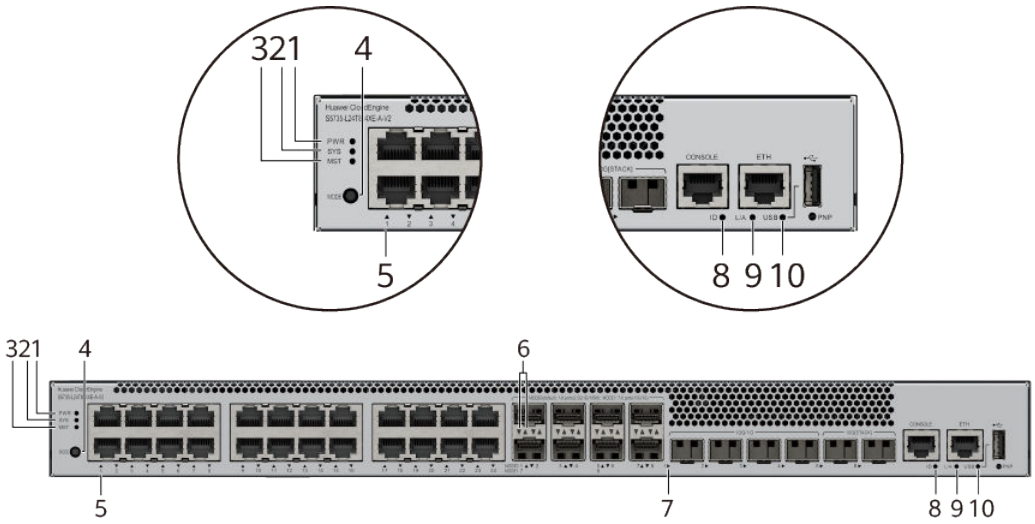

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Table 4-288 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
5	-	Electrical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-289** and **Table 4-290**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
6	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
7	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports.		

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No.	Indicator	Name	Color	Status	Description
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.
10	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-289 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Table 4-290 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.

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Display Mode	Color	Status	Description
Speed mode (LINK indicator) **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 100M/1GE/2.5GE SFP+ port: The port is operating at 100 Mbit/s or 1 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 100M/1GE/2.5GE SFP+ port: The port is operating at 2.5 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

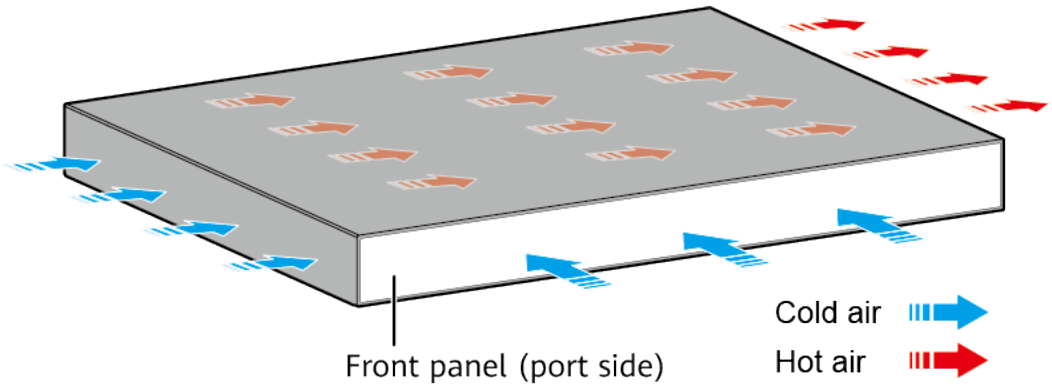
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-291 Technical specifications of the S5735-L24T8J4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.13 kg (9.1 lb)
Weight with packaging [kg(lb)]	6.58 kg (14.51 lb)
Typical power consumption [W]	41.18 W
Typical heat dissipation [BTU/hour]	140.51 BTU/hour
Maximum power consumption [W]	51.52 W
Maximum heat dissipation [BTU/hour]	175.79 BTU/hour
Static power consumption [W]	22.26 W
MTBF [years]	39.69 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	29.9 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	2 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV

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Item	Specification
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.29 S5735-L24P4S-A-V2 (98012021)

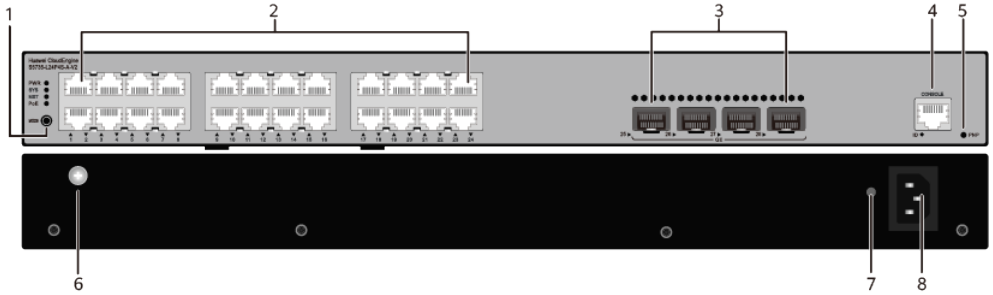
Overview

Table 4-292 Basic information about the S5735-L24P4S-A-V2

Item	Details
Description	S5735-L24P4S-A-V2 (24*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power)
Part Number	98012021
Model	S5735-L24P4S-A-V2
First supported version	V600R022C01

Components

Figure 4-109 S5735-L24P4S-A-V2 appearance



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1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-293 Ports on the S5735-L24P4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration**

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Port	Connector Type	Description	Available Components
			stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L24P4S-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2. For details, see the S5735-L8P2T4X-A-V2.

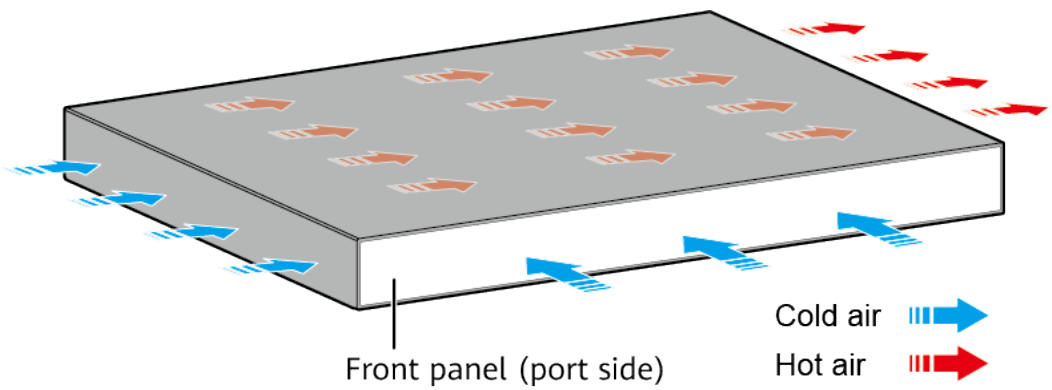
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-294 Technical specifications of the S5735-L24P4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.92 kg (6.44 lb)
Weight with packaging [kg(lb)]	3.79 kg (8.36 lb)
Typical power consumption [W]	36.32 W
Typical heat dissipation [BTU/hour]	123.93 BTU/hour
Maximum power consumption [W]	• Without PoE: 43.35 W • Full PoE load: 484.91 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 147.91 • Full PoE load: 1654.56
Static power consumption [W]	27.07 W
MTBF [years]	60.18 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.30 S5735-L24P4S-A-V2 (98012021-002)

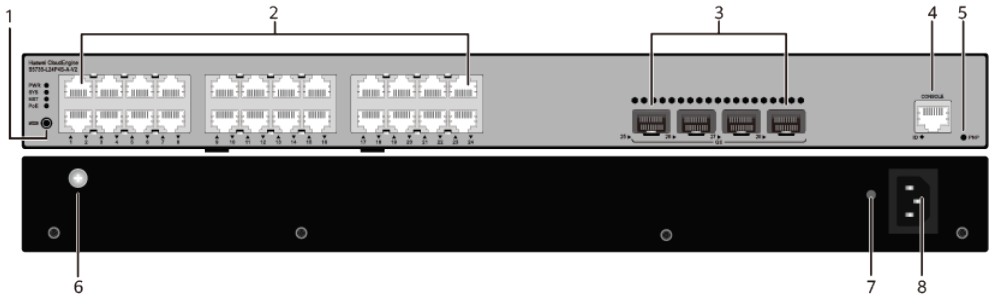
Overview

Table 4-295 Basic information about the S5735-L24P4S-A-V2

Item	Details
Description	S5735-L24P4S-A-V2 (24*10/100/1000BASE-T ports(PoE+), 4*GE SFP ports, built-in AC power, Specially protected models)
Part Number	98012021-002
Model	S5735-L24P4S-A-V2
First supported version	V600R023C10

Components

Figure 4-110 S5735-L24P4S-A-V2 appearance



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1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-296 Ports on the S5735-L24P4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration**

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Port	Connector Type	Description	Available Components
			stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L24P4S-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2. For details, see the S5735-L8P2T4X-A-V2.

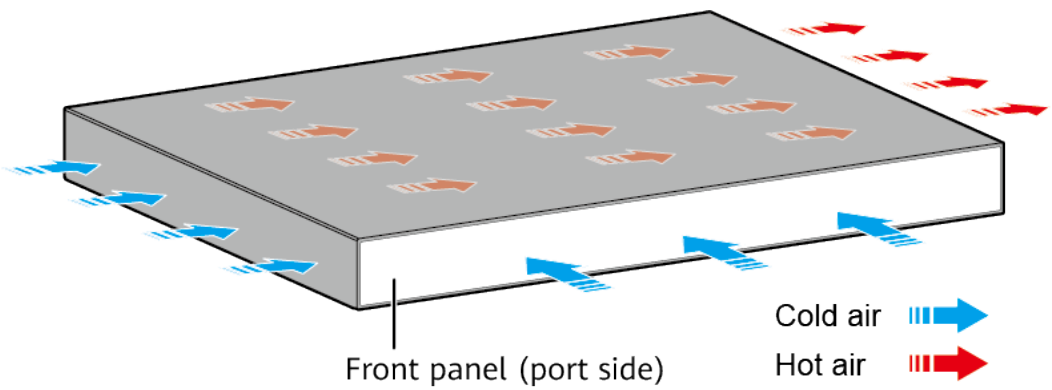
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-297 Technical specifications of the S5735-L24P4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.92 kg (6.44 lb)
Weight with packaging [kg(lb)]	3.79 kg (8.36 lb)
Typical power consumption [W]	36.32 W
Typical heat dissipation [BTU/hour]	123.93 BTU/hour
Maximum power consumption [W]	• Without PoE: 43.35 W • Full PoE load: 484.91 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 147.91 • Full PoE load: 1654.56
Static power consumption [W]	27.07 W
MTBF [years]	60.18 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.31 S5735-L24P4S-A-V2 (98012021-004)

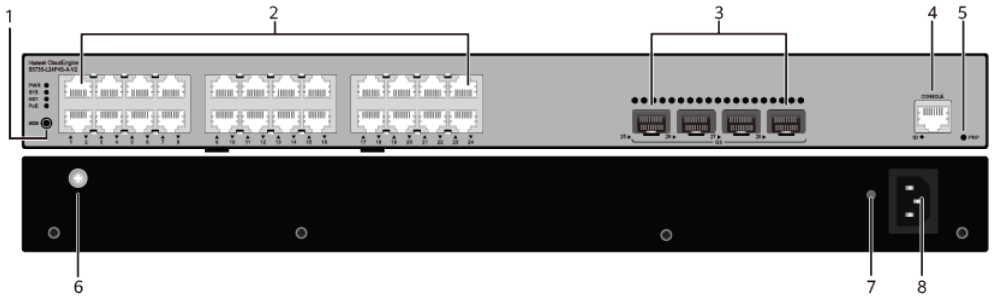
Overview

Table 4-298 Basic information about the S5735-L24P4S-A-V2

Item	Details
Description	S5735-L24P4S-A-V2 (24*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, enhanced corrosion protection, AC power)
Part Number	98012021-004
Model	S5735-L24P4S-A-V2
First supported version	V600R024C10

Components

Figure 4-111 S5735-L24P4S-A-V2 appearance



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1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-299 Ports on the S5735-L24P4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L24P4S-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2. For details, see the S5735-L8P2T4X-A-V2.

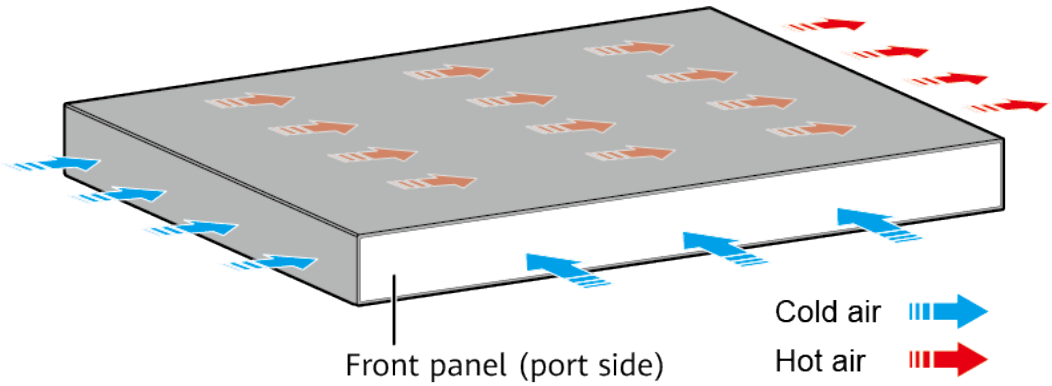
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-300 Technical specifications of the S5735-L24P4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.92 kg (6.44 lb)
Weight with packaging [kg(lb)]	3.79 kg (8.36 lb)
Typical power consumption [W]	36.32 W
Typical heat dissipation [BTU/hour]	123.93 BTU/hour
Maximum power consumption [W]	• Without PoE: 43.35 W • Full PoE load: 484.91 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 147.91 • Full PoE load: 1654.56
Static power consumption [W]	27.07 W
MTBF [years]	60.18 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.32 S5735-L24P4XE-A-V2 (98012026)

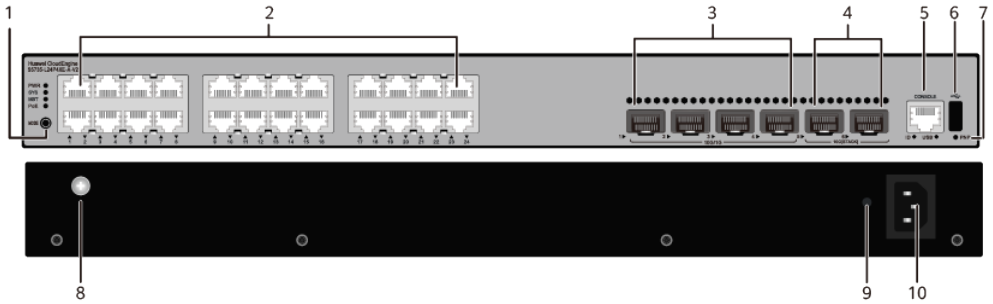
Overview

Table 4-301 Basic information about the S5735-L24P4XE-A-V2

Item	Details
Description	S5735-L24P4XE-A-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE+, AC power)
Part Number	98012026
Model	S5735-L24P4XE-A-V2
First supported version	V600R022C01

Components

Figure 4-112 S5735-L24P4XE-A-V2 appearance



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1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-302 Ports on the S5735-L24P4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-113 Indicators on the Switch

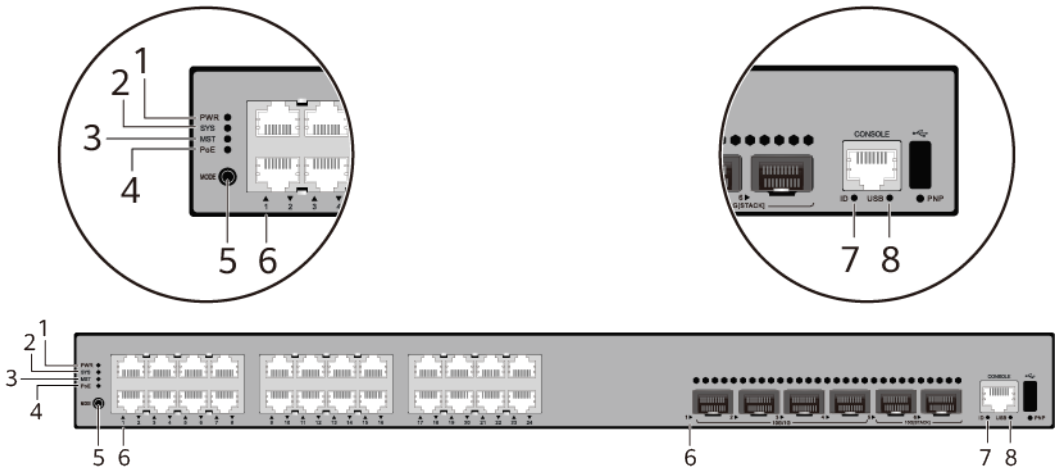

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Table 4-303 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-304**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-304 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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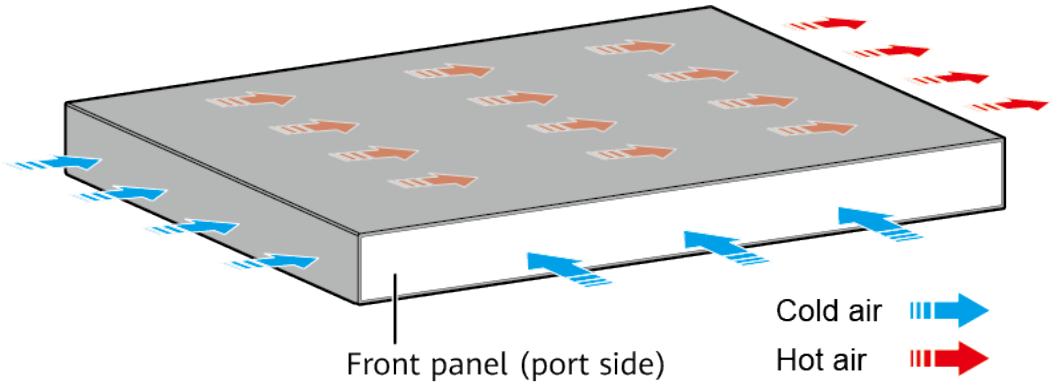

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-305 Technical specifications of the S5735-L24P4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.94 kg (6.48 lb)
Weight with packaging [kg(lb)]	3.81 kg (8.4 lb)
Typical power consumption [W]	39.84 W
Typical heat dissipation [BTU/hour]	135.94 BTU/hour
Maximum power consumption [W]	• Without PoE: 55.40 W • Full PoE load: 496.08 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 189.03 • Full PoE load: 1692.67

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Item	Specification
Static power consumption [W]	29.17 W
MTBF [years]	59.13 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB

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Item	Specification
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.33 S5735-L24P4XE-A-V2 (98012026-001)

Overview

Table 4-306 Basic information about the S5735-L24P4XE-A-V2

Item	Details
Description	S5735-L24P4XE-A-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE+, AC power, Specially protected models)
Part Number	98012026-001
Model	S5735-L24P4XE-A-V2
First supported version	V600R022C01

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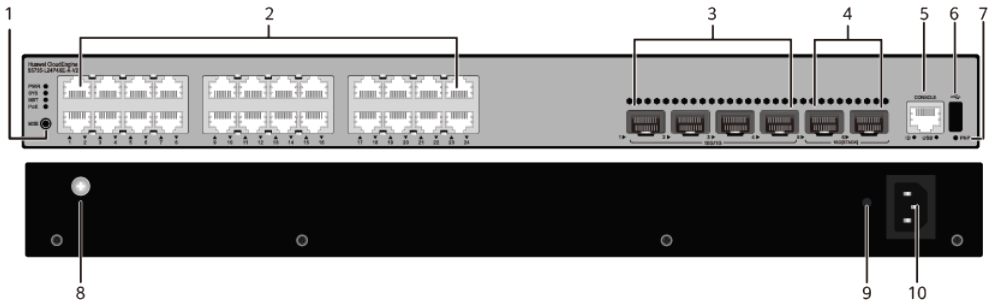
Components

Figure 4-114 S5735-L24P4XE-A-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-307 Ports on the S5735-L24P4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-115 Indicators on the Switch

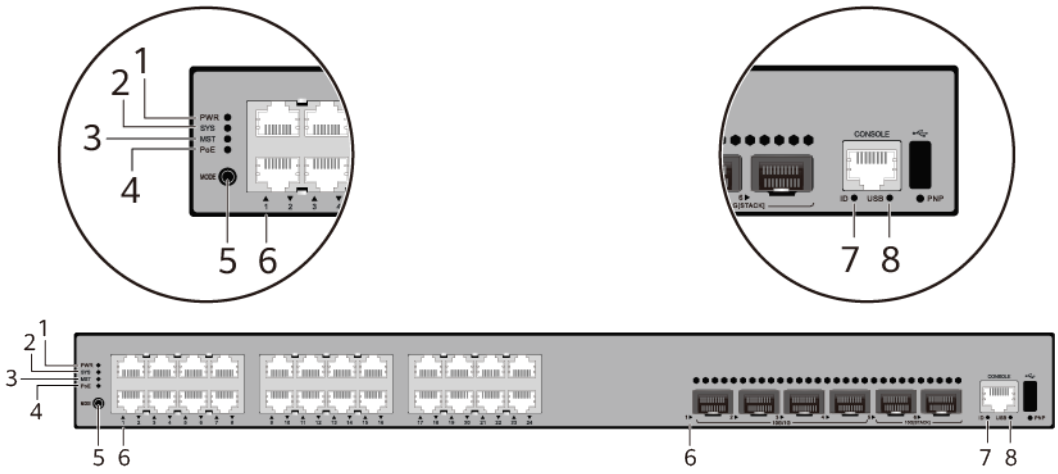

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Table 4-308 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-309**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-309 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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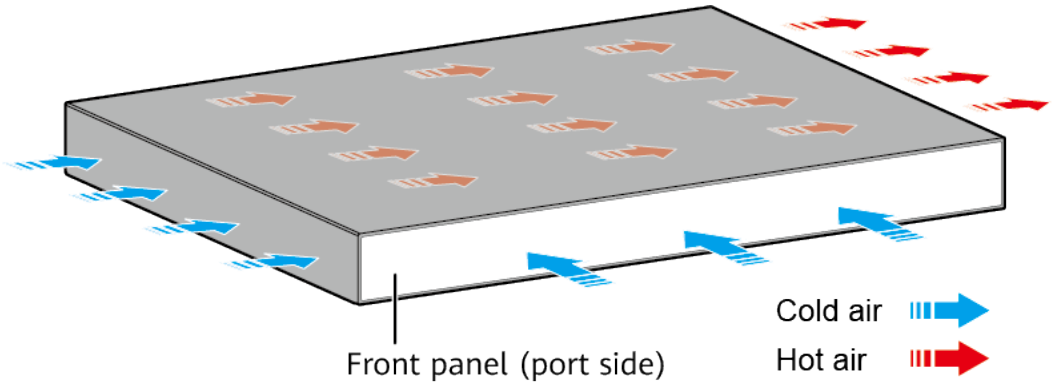

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-310 Technical specifications of the S5735-L24P4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.94 kg (6.48 lb)
Weight with packaging [kg(lb)]	3.81 kg (8.4 lb)
Typical power consumption [W]	39.84 W
Typical heat dissipation [BTU/hour]	135.94 BTU/hour
Maximum power consumption [W]	• Without PoE: 55.40 W • Full PoE load: 496.08 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 189.03 • Full PoE load: 1692.67

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Item	Specification
Static power consumption [W]	29.17 W
MTBF [years]	60.40 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB

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Item	Specification
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.34 S5735-L24P4XE-A-V2 (98012026-004)

Overview

Table 4-311 Basic information about the S5735-L24P4XE-A-V2

Item	Details
Description	S5735-L24P4XE-A-V2 WB (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE+, AC power)
Part Number	98012026-004
Model	S5735-L24P4XE-A-V2
First supported version	V600R022C01

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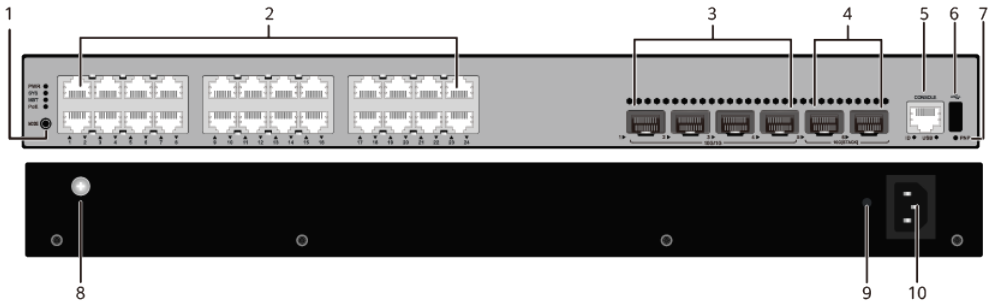
Components

Figure 4-116 S5735-L24P4XE-A-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-312 Ports on the S5735-L24P4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-117 Indicators on the Switch

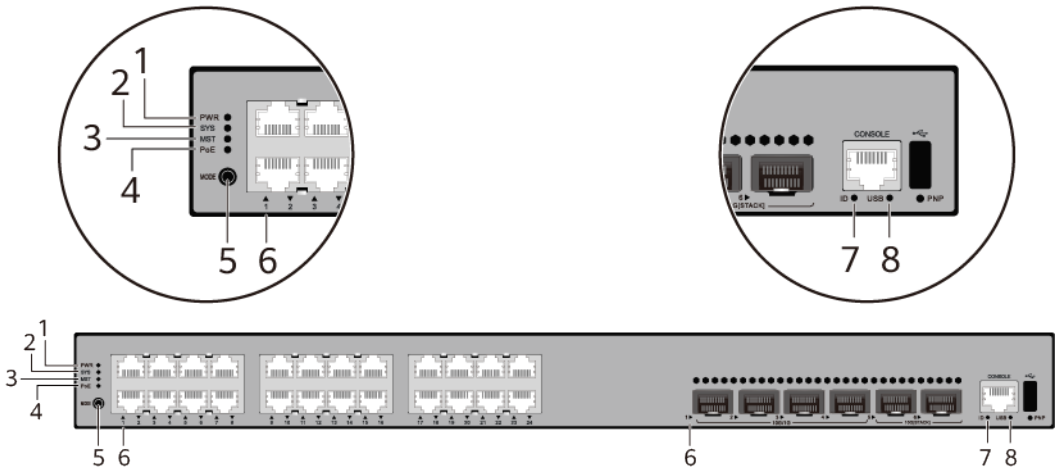

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Table 4-313 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-314**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-314 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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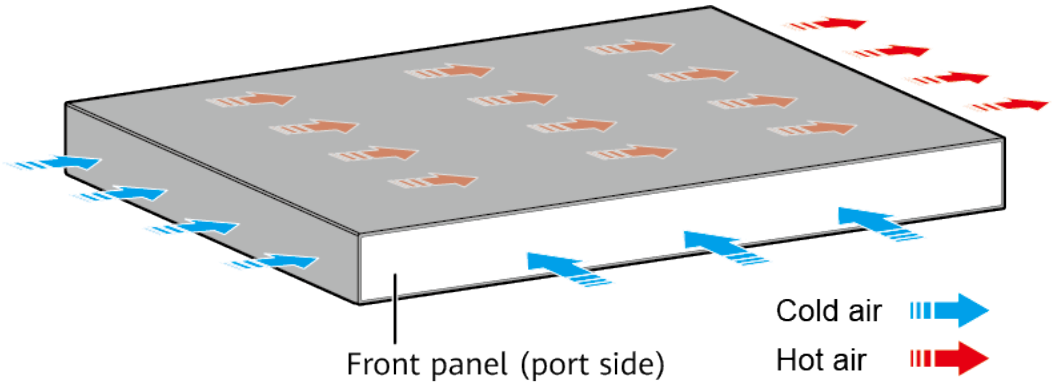

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-315 Technical specifications of the S5735-L24P4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.94 kg (6.48 lb)
Weight with packaging [kg(lb)]	3.81 kg (8.4 lb)
Typical power consumption [W]	39.84 W
Typical heat dissipation [BTU/hour]	135.94 BTU/hour
Maximum power consumption [W]	• Without PoE: 55.40 W • Full PoE load: 496.08 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 189.03 • Full PoE load: 1692.67

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Item	Specification
Static power consumption [W]	29.17 W
MTBF [years]	59.13 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB

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Item	Specification
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.35 S5735-L24P4XE-TA-V2

Overview

Table 4-316 Basic information about the S5735-L24P4XE-TA-V2

Item	Details
Description	S5735-L24P4XE-TA-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE+, HTM, AC power, Only for Overseas)
Part Number	98012027
Model	S5735-L24P4XE-TA-V2
First supported version	V600R022C01

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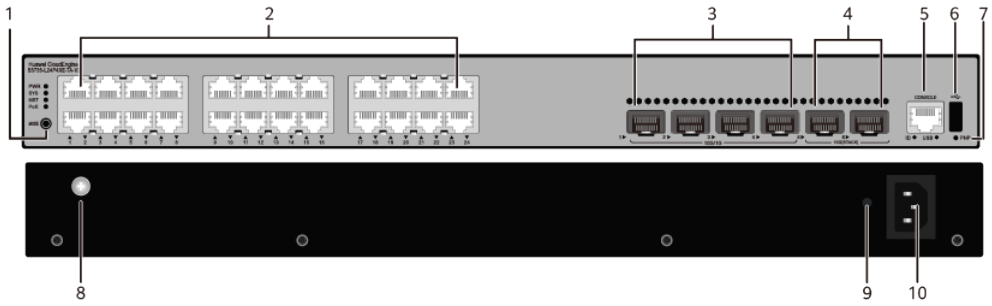
Components

Figure 4-118 S5735-L24P4XE-TA-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-317 Ports on the S5735-L24P4XE-TA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-119 Indicators on the Switch

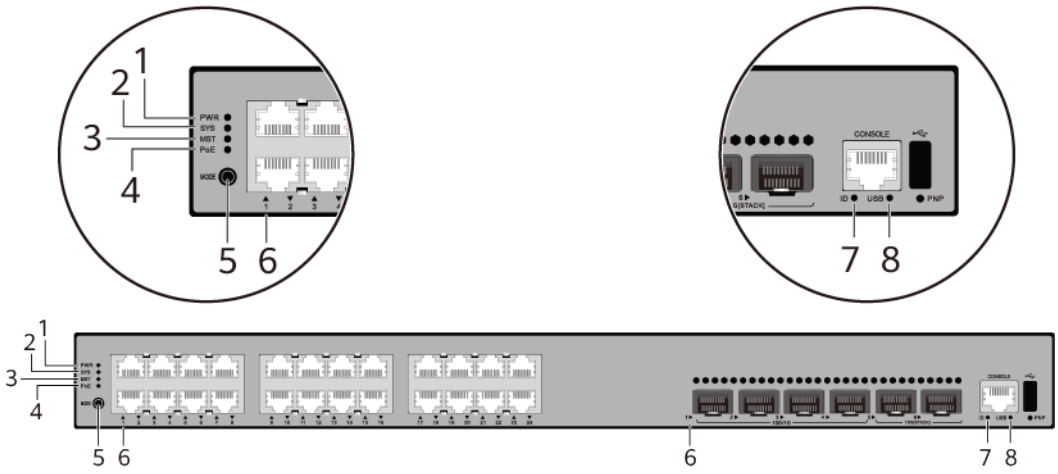

Table 4-318 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-319**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-319 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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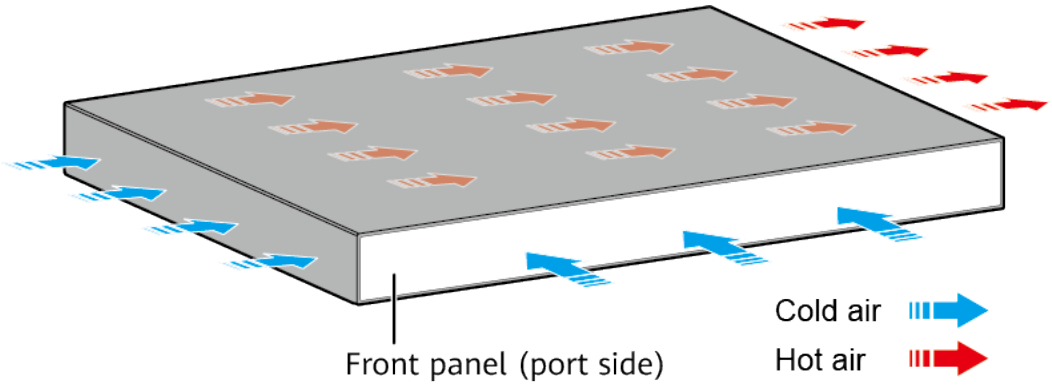

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-320 Technical specifications of the S5735-L24P4XE-TA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.94 kg (6.48 lb)
Weight with packaging [kg(lb)]	3.81 kg (8.4 lb)
Typical power consumption [W]	40.34 W
Typical heat dissipation [BTU/hour]	137.64 BTU/hour
Maximum power consumption [W]	• Without PoE: 55.90 W • Full PoE load: 496.58 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 190.74 • Full PoE load: 1694.38

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Item	Specification
Static power consumption [W]	29.67 W
MTBF [years]	58.27 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB

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Item	Specification
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.36 S5735-L24LU8S4XE-QA-V2

Overview

Table 4-321 Basic information about the S5735-L24LU8S4XE-QA-V2

Item	Details
Description	S5735-L24LU8S4XE-QA-V2 (8*10/100/1000BASE-T ports(PoE++), 16*10/100/1000BASE-T ports(PoE+), 8*GE SFP ports, 4*10GE SFP+ ports, 2*12GE stack ports, AC power, Fanless)
Part Number	98012374
Model	S5735-L24LU8S4XE-QA-V2
First supported version	V600R023C10

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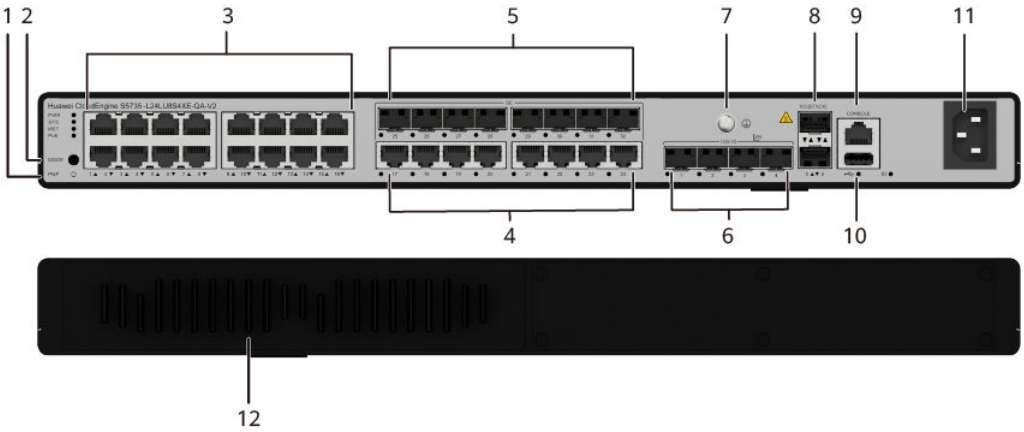
Components

Figure 4-120 S5735-L24LU8S4XE-QA-V2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Sixteen 10/100/1000BASE-T PoE+ ports	4	Eight 10/100/1000BASE-T PoE++ ports
5	Eight 100/1000BASE-X ports	6	Four 10GE SFP+ ports
7	Ground screw **NOTE** It is used with a **ground cable**.	8	Two stack ports
9	One console port	10	One USB port
11	AC socket **NOTE** It is used with an **AC power cable**.	12	Radiator

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Ports

Table 4-322 Ports on the S5735-L24LU8S4XE-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
100/1000BASE-X port	SFP	A 100/1000BASE-X Ethernet optical port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

The S5735-L24LU8S4XE-QA-V2 has similar indicators to those on the S5735-L16LP2UM2X-QA-V2. For details, see the S5735-L16LP2UM2X-QA-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 247 W PoE power, which ensures full PoE power on 16 ports in compliance with 802.3af, 8 ports in compliance with 802.3at, or 4 ports in compliance with 802.3bt (60 W per port).

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-323 Technical specifications of the S5735-L24LU8S4XE-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 360.0 mm (1.72 in. x 17.4 in. x 14.17 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 365.0 mm (1.72 in. x 17.4 in. x 14.37 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.05 kg (11.13 lb)
Weight with packaging [kg(lb)]	7.02 kg(lb)
Typical power consumption [W]	30% traffic under the ATIS standard: 37.9 W
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard: 129.32
Maximum power consumption [W]	• Without PoE: 46.20 W • Full PoE load: 311.01 W (PoE: 247 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• Without PoE: 157.64 • Full PoE load: 1061.19
Static power consumption [W]	24.5 W
MTBF [years]	34.58 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC

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Item	Specification
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP30
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.37 S5735-L48T4S-A-V2 (98012033)

Overview

Table 4-324 Basic information about the S5735-L48T4S-A-V2

Item	Details
Description	S5735-L48T4S-A-V2 (48*10/100/1000BASE-T ports, 4*GE SFP ports, AC power)
Part Number	98012033
Model	S5735-L48T4S-A-V2
First supported version	V600R022C01

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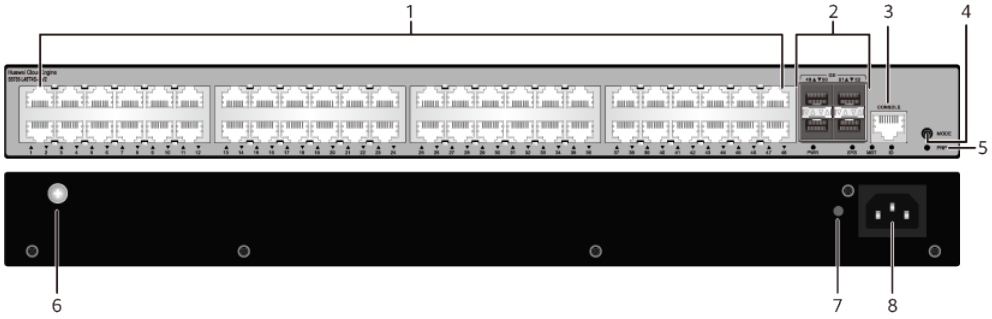
Components

Figure 4-121 S5735-L48T4S-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports	2	Four 1000BASE-X ports
3	One console port	4	One MODE button
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-325 Ports on the S5735-L48T4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration**

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Port	Connector Type	Description	Available Components
			stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L48T4S-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2 except that the S5735-L48T4S-A-V2 does not have a PoE mode indicator. For details, see the S5735-L48P4XE-A-V2.

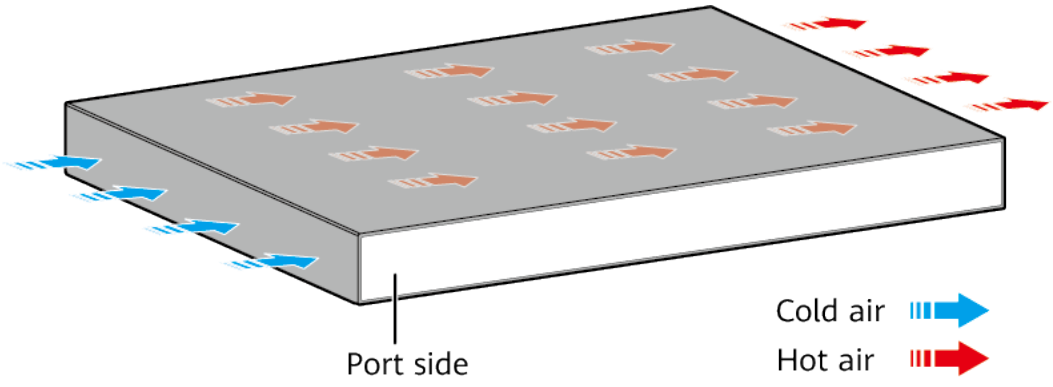
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-326 Technical specifications of the S5735-L48T4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.71 kg (5.97 lb)
Weight with packaging [kg(lb)]	3.59 kg (7.91 lb)
Typical power consumption [W]	36.15 W
Typical heat dissipation [BTU/hour]	123.35 BTU/hour
Maximum power consumption [W]	43.3 W
Maximum heat dissipation [BTU/hour]	147.74 BTU/hour
Static power consumption [W]	18.8 W
MTBF [years]	40.61 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	46.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	34.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used. The device does not support dying gasp when the ambient temperature is higher than 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	1.6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20

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Item	Specification
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.38 S5735-L48T4S-A-V2 (98012033-001)

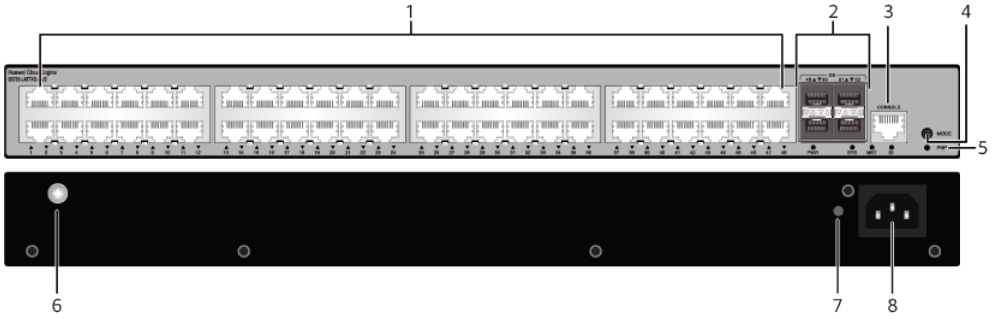
Overview

Table 4-327 Basic information about the S5735-L48T4S-A-V2

Item	Details
Description	S5735-L48T4S-A-V2 (48*10/100/1000BASE-T ports, 4*GE SFP ports, AC power, Specially protected models)
Part Number	98012033-001
Model	S5735-L48T4S-A-V2
First supported version	V600R024C10

Components

Figure 4-122 S5735-L48T4S-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports	2	Four 1000BASE-X ports
3	One console port	4	One MODE button
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-328 Ports on the S5735-L48T4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L48T4S-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2 except that the S5735-L48T4S-A-V2 does not have a PoE mode indicator. For details, see the S5735-L48P4XE-A-V2.

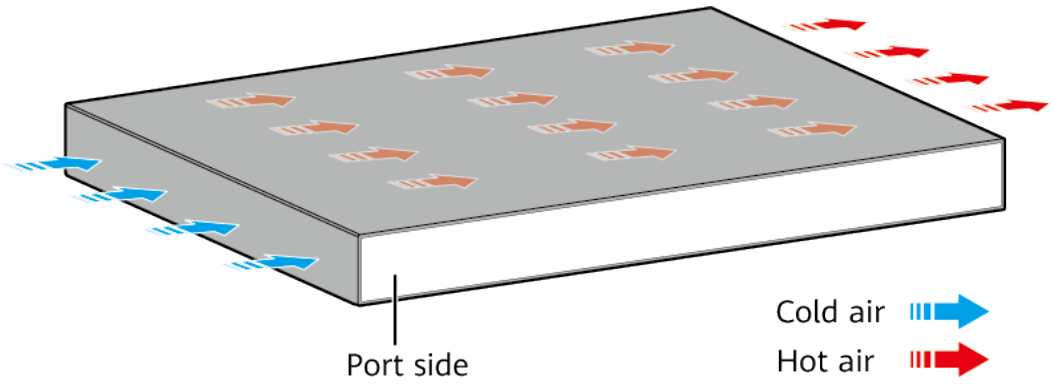
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-329 Technical specifications of the S5735-L48T4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.71 kg (5.97 lb)
Weight with packaging [kg(lb)]	3.59 kg (7.91 lb)
Typical power consumption [W]	36.15 W
Typical heat dissipation [BTU/hour]	123.35 BTU/hour
Maximum power consumption [W]	43.3 W
Maximum heat dissipation [BTU/hour]	147.74 BTU/hour
Static power consumption [W]	18.8 W
MTBF [years]	40.61 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	46.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	34.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used. The device does not support dying gasp when the ambient temperature is higher than 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	1.6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.39 S5735-L48T4XE-A-V2 (98012040)

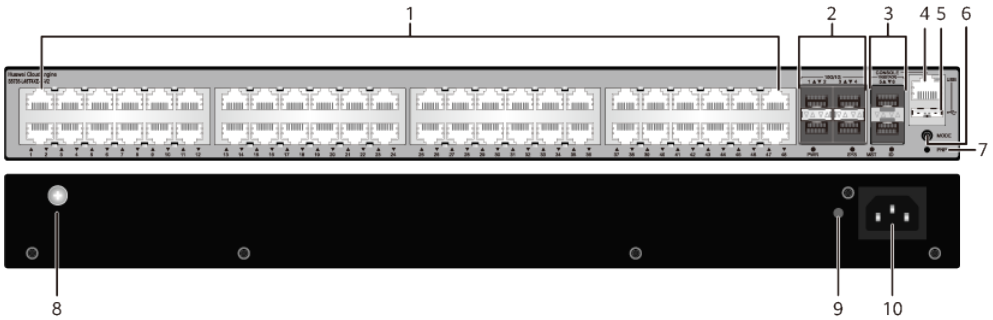
Overview

Table 4-330 Basic information about the S5735-L48T4XE-A-V2

Item	Details
Description	S5735-L48T4XE-A-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, AC power)
Part Number	98012040
Model	S5735-L48T4XE-A-V2
First supported version	V600R022C01

Components

Figure 4-123 S5735-L48T4XE-A-V2 appearance



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1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-331 Ports on the S5735-L48T4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L48T4XE-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2 except that the S5735-L48T4XE-A-V2 does not have a PoE mode indicator. For details, see the S5735-L48P4XE-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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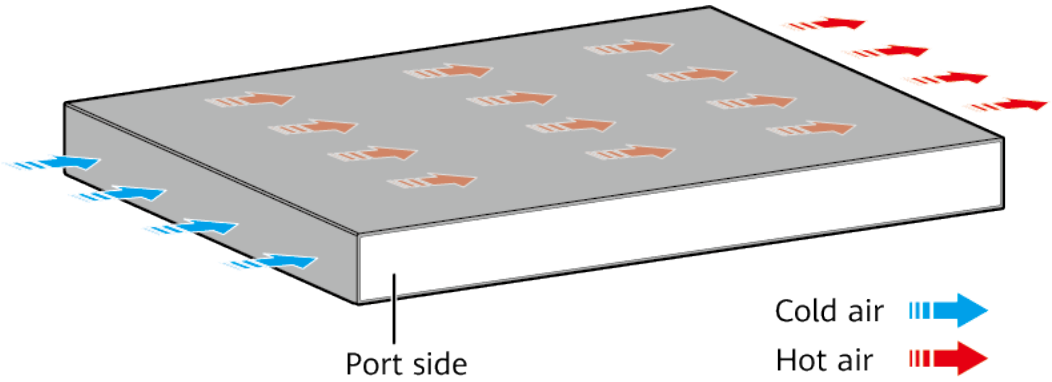

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-332 Technical specifications of the S5735-L48T4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.74 kg (6.04 lb)
Weight with packaging [kg(lb)]	3.62 kg (7.98 lb)
Typical power consumption [W]	41.06 W
Typical heat dissipation [BTU/hour]	140.1 BTU/hour
Maximum power consumption [W]	49.48 W
Maximum heat dissipation [BTU/hour]	168.83 BTU/hour
Static power consumption [W]	19.68 W
MTBF [years]	40.01 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	46.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	34.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used. The device does not support dying gasp when the ambient temperature is higher than 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	1.6 A
Memory	2 GB
Flash memory	Physical space: 1 GB

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Item	Specification
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.40 S5735-L48T4XE-A-V2 (98012040-002)

Overview

Table 4-333 Basic information about the S5735-L48T4XE-A-V2

Item	Details
Description	S5735-L48T4XE-A-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, AC power, Specially protected models)
Part Number	98012040-002
Model	S5735-L48T4XE-A-V2
First supported version	V600R024C10

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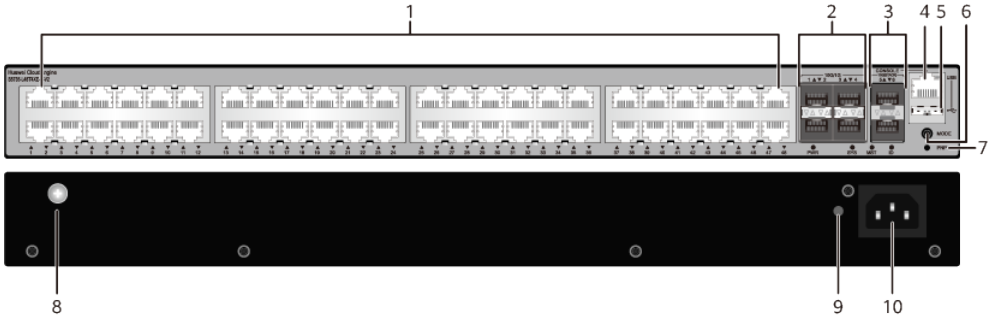
Components

Figure 4-124 S5735-L48T4XE-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-334 Ports on the S5735-L48T4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

The S5735-L48T4XE-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2 except that the S5735-L48T4XE-A-V2 does not have a PoE mode indicator. For details, see the S5735-L48P4XE-A-V2.

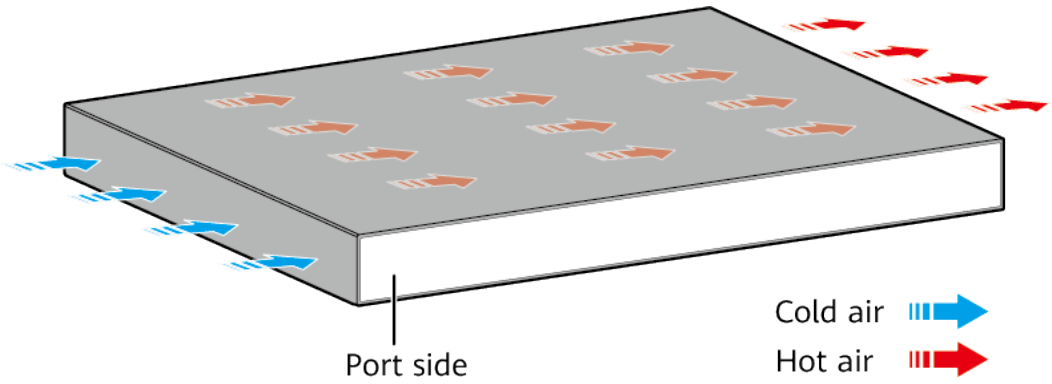
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-335 Technical specifications of the S5735-L48T4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.74 kg (6.04 lb)
Weight with packaging [kg(lb)]	3.62 kg (7.98 lb)
Typical power consumption [W]	41.06 W
Typical heat dissipation [BTU/hour]	140.1 BTU/hour
Maximum power consumption [W]	49.48 W
Maximum heat dissipation [BTU/hour]	168.83 BTU/hour
Static power consumption [W]	19.68 W
MTBF [years]	40.01 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	46.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	34.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used. The device does not support dying gasp when the ambient temperature is higher than 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	1.6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.41 S5735-L48T4XE-A-V2 (98012040-004)

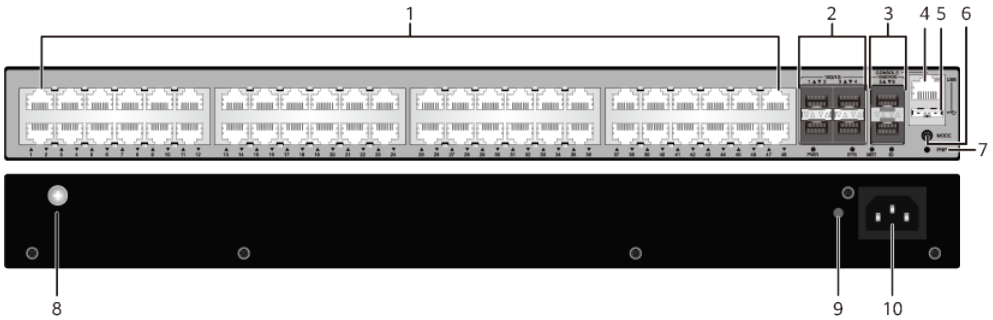
Overview

Table 4-336 Basic information about the S5735-L48T4XE-A-V2

Item	Details
Description	S5735-L48T4XE-A-V2 WB (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, AC power)
Part Number	98012040-004
Model	S5735-L48T4XE-A-V2
First supported version	V600R022C01

Components

Figure 4-125 S5735-L48T4XE-A-V2 appearance



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1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-337 Ports on the S5735-L48T4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L48T4XE-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2 except that the S5735-L48T4XE-A-V2 does not have a PoE mode indicator. For details, see the S5735-L48P4XE-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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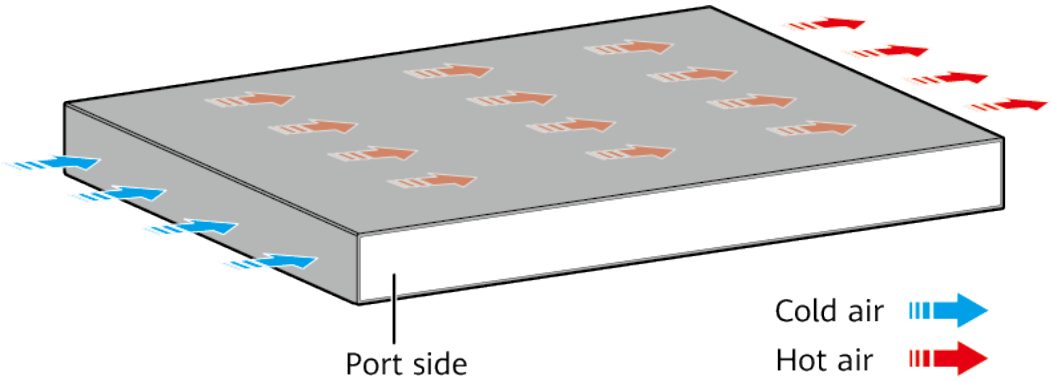

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-338 Technical specifications of the S5735-L48T4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.74 kg (6.04 lb)
Weight with packaging [kg(lb)]	3.62 kg (7.98 lb)
Typical power consumption [W]	41.06 W
Typical heat dissipation [BTU/hour]	140.1 BTU/hour
Maximum power consumption [W]	49.48 W
Maximum heat dissipation [BTU/hour]	168.83 BTU/hour
Static power consumption [W]	19.68 W
MTBF [years]	40.01 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	46.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	34.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used. The device does not support dying gasp when the ambient temperature is higher than 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	1.6 A
Memory	2 GB
Flash memory	Physical space: 1 GB

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Item	Specification
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.42 S5735-L48T4XE-TA-V2

Overview

Table 4-339 Basic information about the S5735-L48T4XE-TA-V2

Item	Details
Description	S5735-L48T4XE-TA-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, HTM, AC power, Only for Overseas)
Part Number	98012042
Model	S5735-L48T4XE-TA-V2
First supported version	V600R022C01

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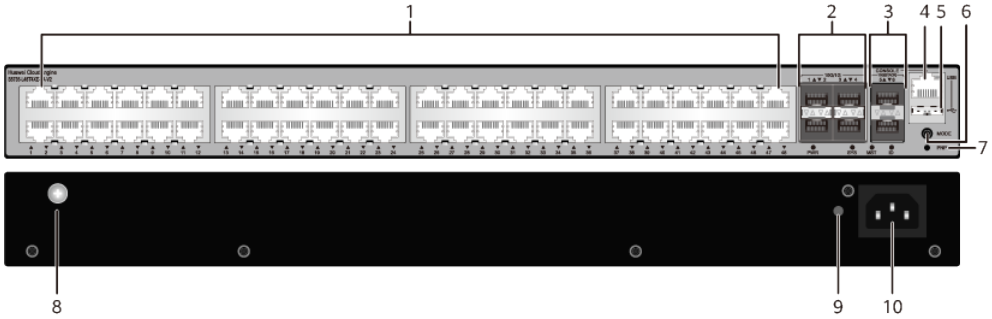
Components

Figure 4-126 S5735-L48T4XE-TA-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-340 Ports on the S5735-L48T4XE-TA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L48T4XE-TA-V2 has similar indicators to those on the S5735-L48P4XE-A-V2 except that the S5735-L48T4XE-TA-V2 does not have a PoE mode indicator. For details, see the S5735-L48P4XE-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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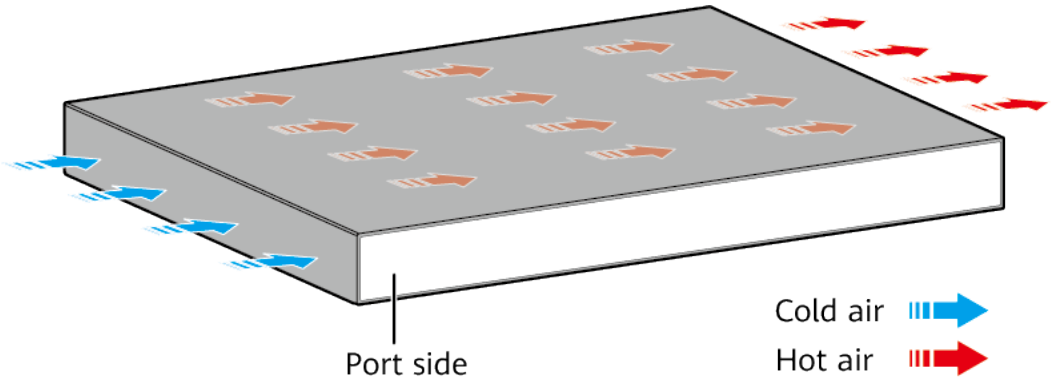

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-341 Technical specifications of the S5735-L48T4XE-TA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.75 kg (6.06 lb)
Weight with packaging [kg(lb)]	3.63 kg (8 lb)
Typical power consumption [W]	41.11 W
Typical heat dissipation [BTU/hour]	140.27 BTU/hour
Maximum power consumption [W]	49.53 W
Maximum heat dissipation [BTU/hour]	169.00 BTU/hour
Static power consumption [W]	19.73 W
MTBF [years]	39.62 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	46.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	34.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used. The device does not support dying gasp when the ambient temperature is higher than 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	1.6 A
Memory	2 GB
Flash memory	Physical space: 1 GB

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Item	Specification
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.43 S5735-L48T4XE-D-V2

Overview

Table 4-342 Basic information about the S5735-L48T4XE-D-V2

Item	Details
Description	S5735-L48T4XE-D-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, DC power)
Part Number	98012043
Model	S5735-L48T4XE-D-V2
First supported version	V600R022C01

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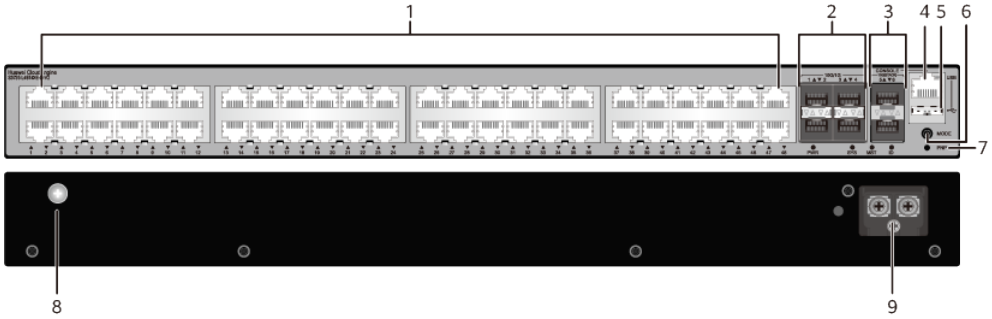
Components

Figure 4-127 S5735-L48T4XE-D-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	DC power terminal **NOTE** It is used with **DC Power Cable**.	-	-

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Ports

Table 4-343 Ports on the S5735-L48T4XE-D-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L48T4XE-D-V2 has similar indicators to those on the S5735-L48P4XE-A-V2 except that the S5735-L48T4XE-D-V2 does not have a PoE mode indicator. For details, see the S5735-L48P4XE-A-V2.

Power Supply System

The switch has a built-in DC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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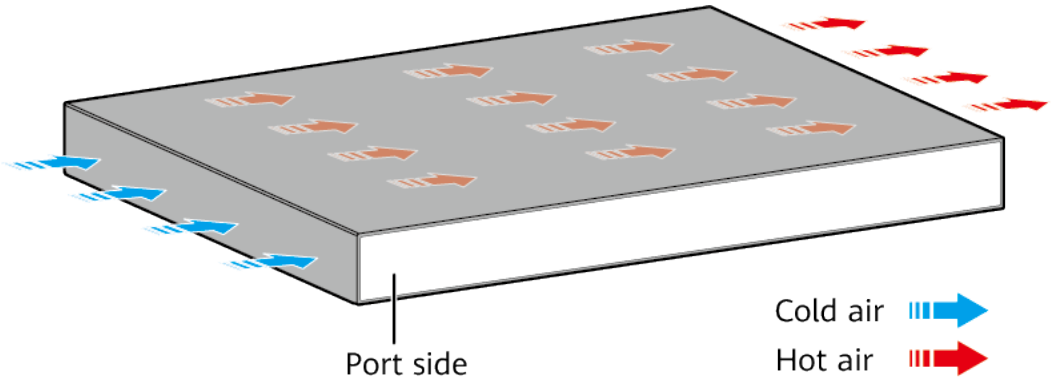

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-344 Technical specifications of the S5735-L48T4XE-D-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.72 kg (6 lb)
Weight with packaging [kg(lb)]	3.60 kg (7.94 lb)
Typical power consumption [W]	40.29 W
Typical heat dissipation [BTU/hour]	137.47 BTU/hour
Maximum power consumption [W]	48.42 W
Maximum heat dissipation [BTU/hour]	165.21 BTU/hour
Static power consumption [W]	23.52 W
MTBF [years]	61.67 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	46.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	34.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used. The device does not support dying gasp when the ambient temperature is higher than 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC built-in
Rated input voltage [V]	-48 V DC to -60 V DC
Input voltage range [V]	–38.4 V DC to –72 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45

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Item	Specification
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	±2 kV in differential mode, ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.44 S5735-L48LP4S-A-V2 (98012047)

Overview

Table 4-345 Basic information about the S5735-L48LP4S-A-V2

Item	Details
Description	S5735-L48LP4S-A-V2 (48*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power)
Part Number	98012047
Model	S5735-L48LP4S-A-V2
First supported version	V600R022C01

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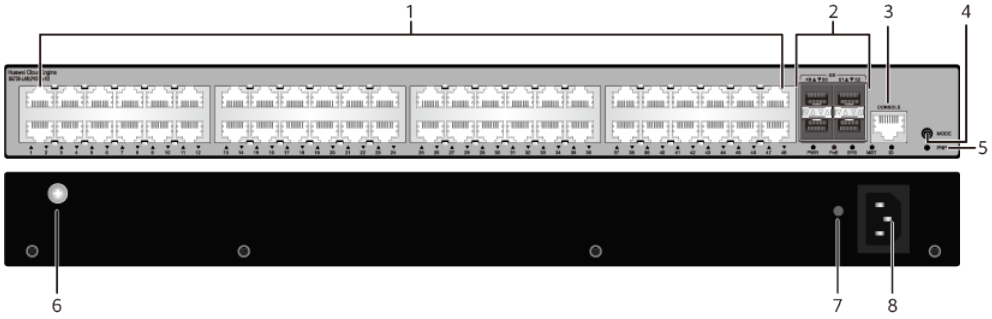
Components

Figure 4-128 S5735-L48LP4S-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE + ports	2	Four 1000BASE-X ports
3	One console port	4	One MODE button
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-346 Ports on the S5735-L48LP4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration**

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Port	Connector Type	Description	Available Components
			stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L48LP4S-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2 except that the S5735-L48LP4S-A-V2 does not have a USB indicator. For details, see the S5735-L48P4XE-A-V2.

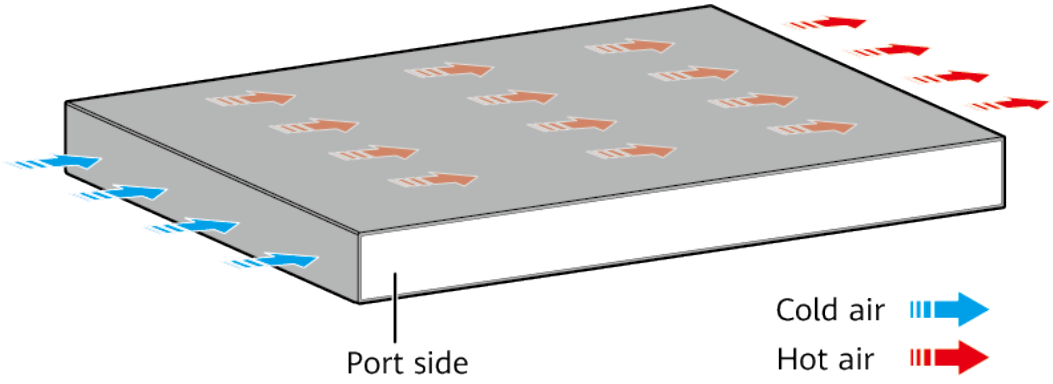
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 380 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 12 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-347 Technical specifications of the S5735-L48LP4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.24 kg (7.14 lb)
Weight with packaging [kg(lb)]	4.29 kg (9.46 lb)
Typical power consumption [W]	48.64 W
Typical heat dissipation [BTU/hour]	165.96 BTU/hour
Maximum power consumption [W]	• Without PoE: 63.70 W • Full PoE load: 462.80 W (PoE: 380 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 217.35 • Full PoE load: 1579.12
Static power consumption [W]	34.04 W
MTBF [years]	48.14 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV

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Item	Specification
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.45 S5735-L48LP4S-A-V2 (98012047-002)

Overview

Table 4-348 Basic information about the S5735-L48LP4S-A-V2

Item	Details
Description	S5735-L48LP4S-A-V2 (48*10/100/1000BASE-T ports(PoE+), 4*GE SFP ports, built-in AC power, Specially protected models)
Part Number	98012047-002
Model	S5735-L48LP4S-A-V2
First supported version	V600R023C10

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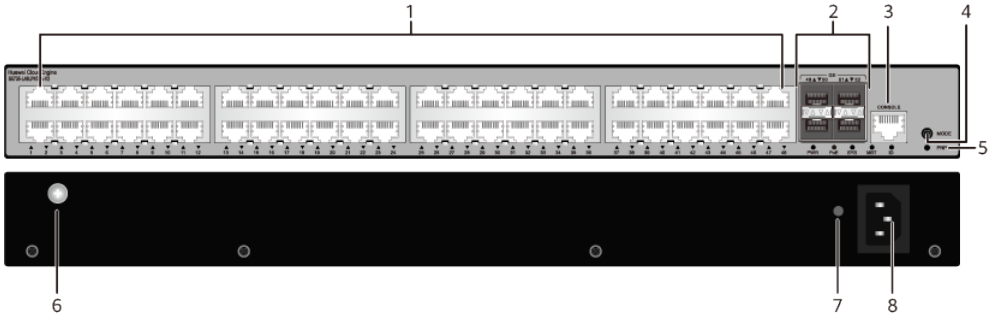
Components

Figure 4-129 S5735-L48LP4S-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE + ports	2	Four 1000BASE-X ports
3	One console port	4	One MODE button
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-349 Ports on the S5735-L48LP4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration**

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Port	Connector Type	Description	Available Components
			stacking supported from V600R023C00)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735-L48LP4S-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2 except that the S5735-L48LP4S-A-V2 does not have a USB indicator. For details, see the S5735-L48P4XE-A-V2.

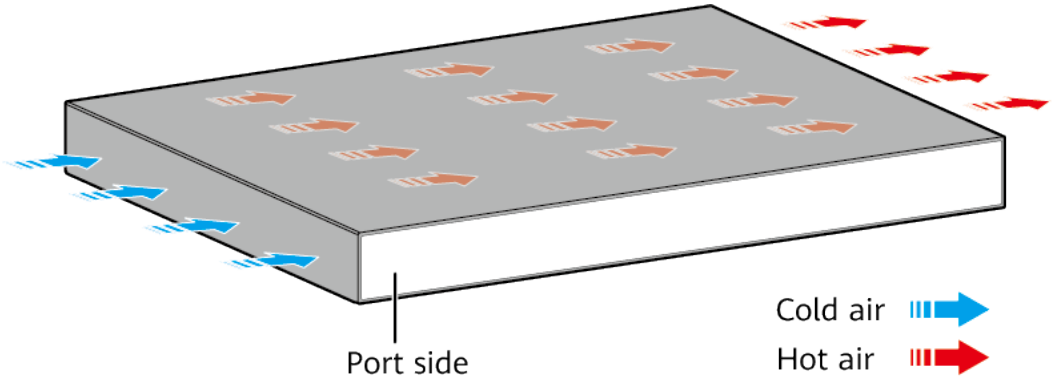
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 380 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 12 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-350 Technical specifications of the S5735-L48LP4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.24 kg (7.14 lb)
Weight with packaging [kg(lb)]	4.29 kg (9.46 lb)
Typical power consumption [W]	48.64 W
Typical heat dissipation [BTU/hour]	165.96 BTU/hour
Maximum power consumption [W]	• Without PoE: 63.70 W • Full PoE load: 462.80 W (PoE: 380 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 217.35 • Full PoE load: 1579.12
Static power consumption [W]	34.04 W
MTBF [years]	48.14 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV

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Item	Specification
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.46 S5735-L48LP4XE-A-V2 (98012052)

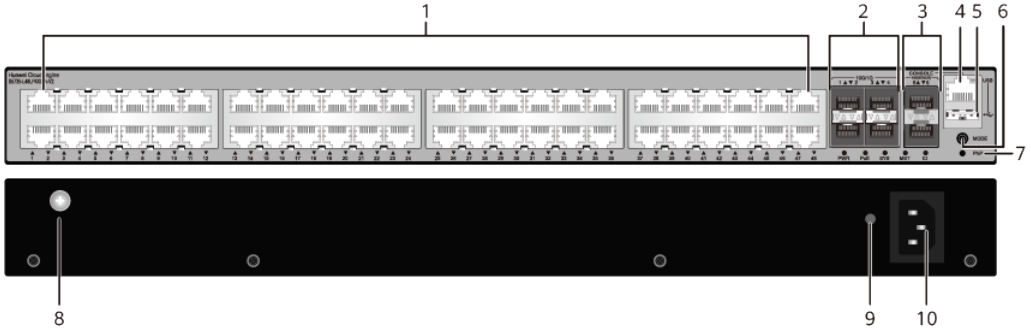
Overview

Table 4-351 Basic information about the S5735-L48LP4XE-A-V2

Item	Details
Description	S5735-L48LP4XE-A-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE+, AC power)
Part Number	98012052
Model	S5735-L48LP4XE-A-V2
First supported version	V600R022C01

Components

Figure 4-130 S5735-L48LP4XE-A-V2 appearance



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1	Forty-eight 10/100/1000BASE-T PoE + ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-352 Ports on the S5735-L48LP4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L48LP4XE-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2. For details, see the S5735-L48P4XE-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 380 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 12 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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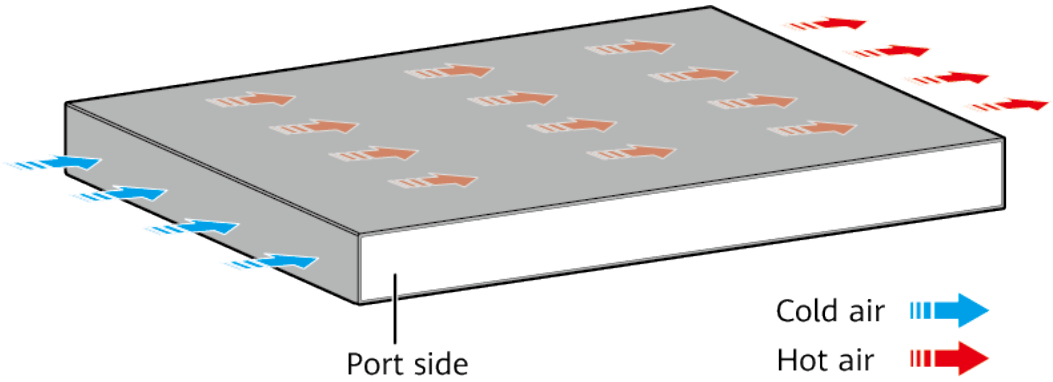

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-353 Technical specifications of the S5735-L48LP4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.27 kg (7.21 lb)
Weight with packaging [kg(lb)]	4.32 kg (9.52 lb)
Typical power consumption [W]	49.81 W
Typical heat dissipation [BTU/hour]	169.96 BTU/hour
Maximum power consumption [W]	• Without PoE: 65.70 W • Full PoE load: 464.80 W (PoE: 380 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 224.17 • Full PoE load: 1585.94

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Item	Specification
Static power consumption [W]	32.09 W
MTBF [years]	47.31 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.47 S5735-L48LP4XE-A-V2 (98012052-001)

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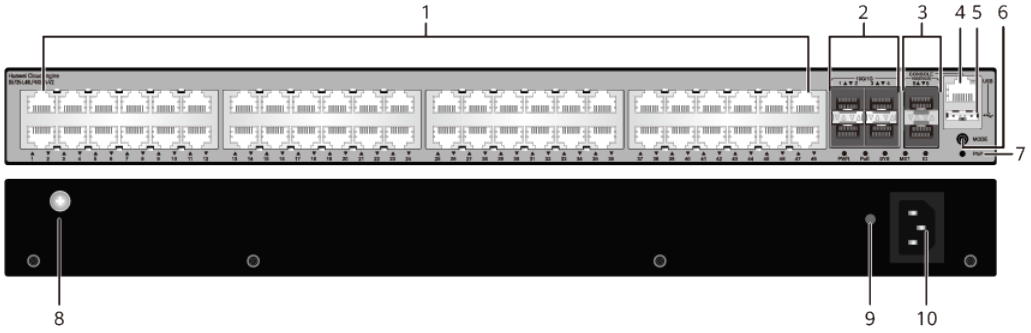
Overview

Table 4-354 Basic information about the S5735-L48LP4XE-A-V2

Item	Details
Description	S5735-L48LP4XE-A-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE+, AC power, Specially protected models)
Part Number	98012052-001
Model	S5735-L48LP4XE-A-V2
First supported version	V600R022C01

Components

Figure 4-131 S5735-L48LP4XE-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE + ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.

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9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-355 Ports on the S5735-L48LP4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L48LP4XE-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2. For details, see the S5735-L48P4XE-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 380 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 12 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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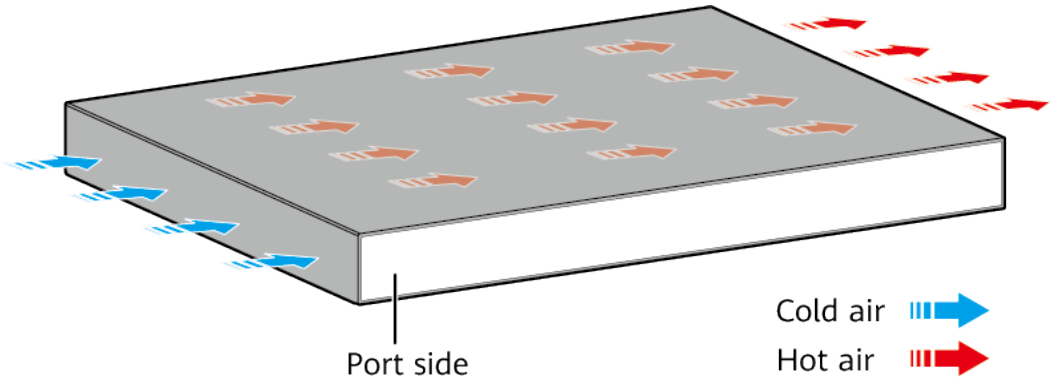

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-356 Technical specifications of the S5735-L48LP4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.25 kg (7.16 lb)
Weight with packaging [kg(lb)]	4.30 kg (9.48 lb)
Typical power consumption [W]	49.81 W
Typical heat dissipation [BTU/hour]	169.96 BTU/hour
Maximum power consumption [W]	• Without PoE: 65.70 W • Full PoE load: 464.80 W (PoE: 380 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 224.17 • Full PoE load: 1585.94

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Item	Specification
Static power consumption [W]	32.09 W
MTBF [years]	48.01 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.48 S5735-L48LP4XE-A-V2 (98012052-004)

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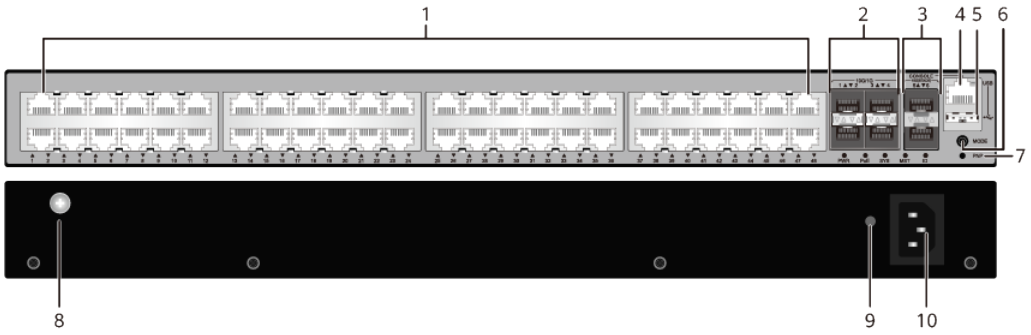
Overview

Table 4-357 Basic information about the S5735-L48LP4XE-A-V2

Item	Details
Description	S5735-L48LP4XE-A-V2 WB (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE+, AC power)
Part Number	98012052-004
Model	S5735-L48LP4XE-A-V2
First supported version	V600R022C01

Components

Figure 4-132 S5735-L48LP4XE-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE + ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.

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9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-358 Ports on the S5735-L48LP4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L48LP4XE-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2. For details, see the S5735-L48P4XE-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 380 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 12 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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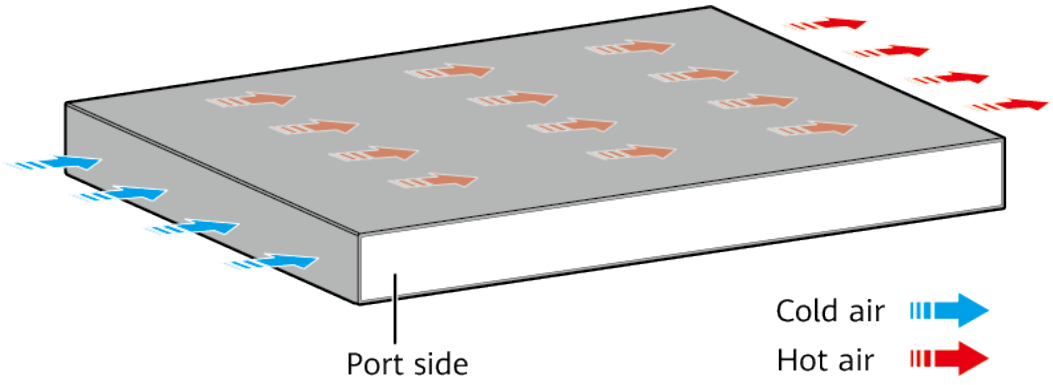

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-359 Technical specifications of the S5735-L48LP4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.27 kg (7.21 lb)
Weight with packaging [kg(lb)]	4.32 kg (9.52 lb)
Typical power consumption [W]	49.81 W
Typical heat dissipation [BTU/hour]	169.96 BTU/hour
Maximum power consumption [W]	• Without PoE: 65.70 W • Full PoE load: 464.80 W (PoE: 380 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 224.17 • Full PoE load: 1585.94

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Item	Specification
Static power consumption [W]	32.09 W
MTBF [years]	47.31 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.49 S5735-L48P4XE-A-V2

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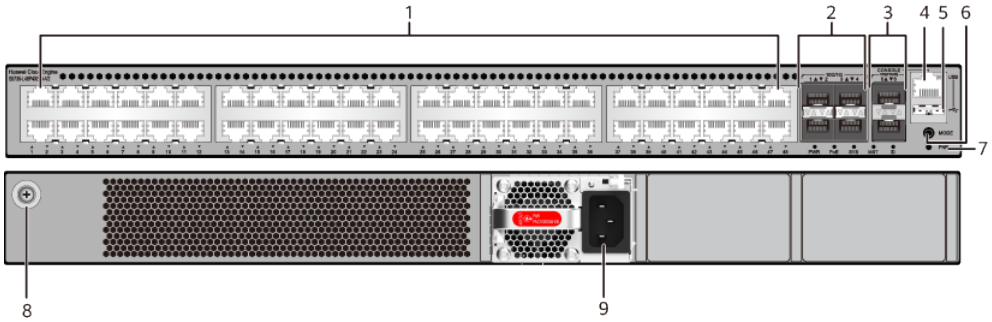
Overview

Table 4-360 Basic information about the S5735-L48P4XE-A-V2

Item	Details
Description	S5735-L48P4XE-A-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE+, 1*AC power)
Part Number	98012120
Model	S5735-L48P4XE-A-V2
First supported version	V600R022C01

Components

Figure 4-133 S5735-L48P4XE-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE+ ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.

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9	Power module slot **NOTE** Applicable power modules: • **PAC1000S56-EB**	-	-

Ports

Table 4-361 Ports on the S5735-L48P4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-134 Indicators on the Switch

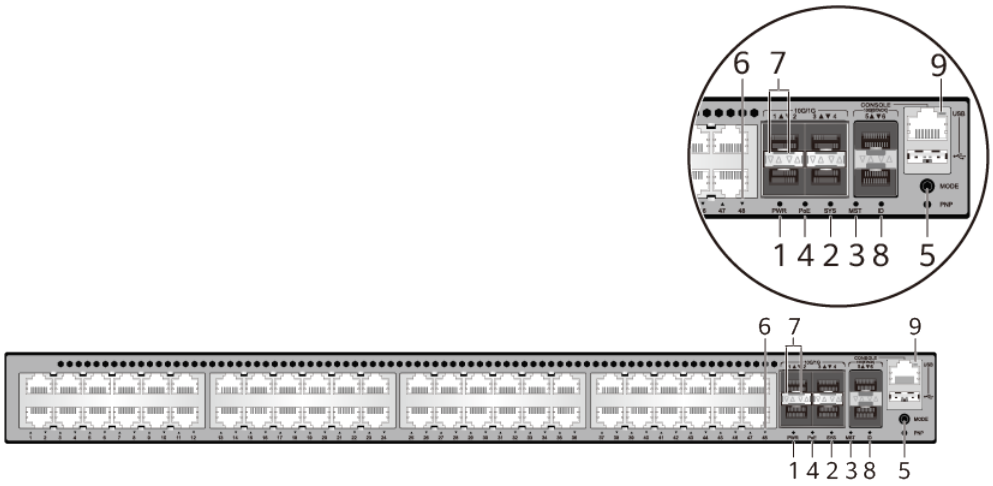

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Table 4-362 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Electrical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-363** and **Table 4-364**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

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Table 4-363 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 10M/100M/1000M/2.5GE BASE-T ports: The port is operating at 10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s.

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Display Mode	Color	Status	Description
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 10M/100M/1000M/2.5GE BASE-T ports: The port is operating at 2.5 Gbit/s.

Table 4-364 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch is a PoE switch and supports one power module slot, which can have a 1000 W PoE power module installed.

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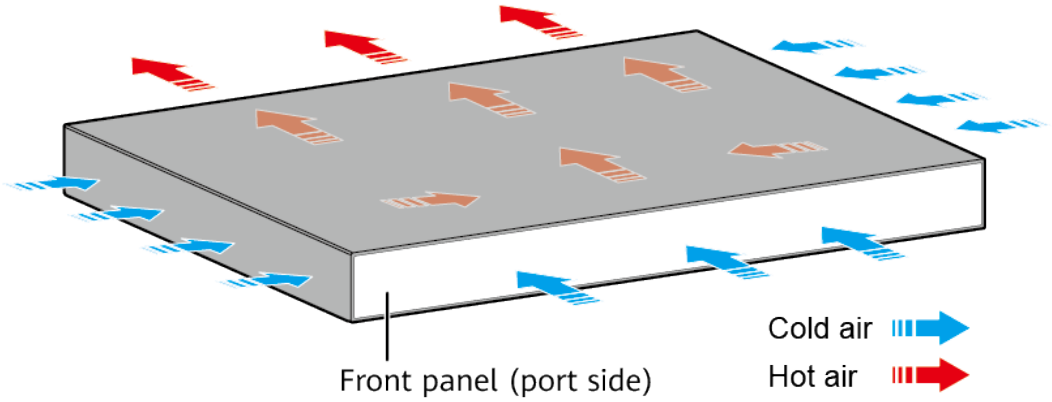
Table 4-365 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28
1000 W AC (110 V)	756 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-366 Technical specifications of the S5735-L48P4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.10 kg (13.45 lb)
Weight with packaging [kg(lb)]	8.90 kg (19.62 lb)
Typical power consumption [W]	54.78 W
Typical heat dissipation [BTU/hour]	186.91 BTU/hour
Maximum power consumption [W]	• Without PoE: 76.66 W • Full PoE load: 993.74 W (PoE: 846 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 261.57 • Full PoE load: 3390.74
Static power consumption [W]	36.75 W
MTBF [years]	46.89 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	67 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	55 dB(A)
Number of card slots	0
Number of power slots	1
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)

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Item	Specification
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.8.50 S5735-L24ST4XE-A-V2 (98012225)

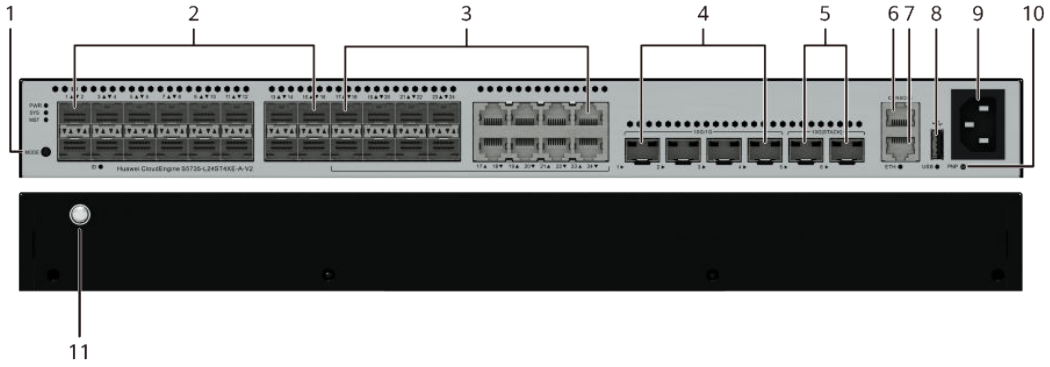
Overview

Table 4-367 Basic information about the S5735-L24ST4XE-A-V2

Item	Details
Description	S5735-L24ST4XE-A-V2 (24*GE SFP ports, 8 of which are dual-purpose 10/100/1000 or SFP, 4*10GE SFP+ ports, 2*12GE stack ports, built-in AC power, front access)
Part Number	98012225
Model	S5735-L24ST4XE-A-V2
First supported version	V600R023C00

Components

Figure 4-135 S5735-L24ST4XE-A-V2 appearance



1	One MODE button	2	Sixteen 100/1000BASE-X ports

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3	Eight Combo ports (100/1000BASE-X optical ports and 10/100/1000BASE-T electrical ports)	4	Four 10GE SFP+ ports
5	Two stack ports	6	One console port
7	One ETH management port	8	One USB port
9	AC socket **NOTE** It is used with an **AC power cable**.	10	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
11	Ground screw **NOTE** It is used with a **ground cable**.	-	-

Ports

Table 4-368 Ports on the S5735-L24ST4XE-A-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
Combo port (10/100/1000BASE-T + 100/1000BASE-X)	RJ45/SFP	A combo port refers to a pair of ports consisting of an optical Ethernet port and an electrical Ethernet port on the panel. Each combo port matches only one internal forwarding port. A combo port can be configured as an electrical port or an optical port, but only one port can be active at a time. When one port is active, the other port is shut down.	• **Ethernet cable** • **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-136 Indicators on the Switch

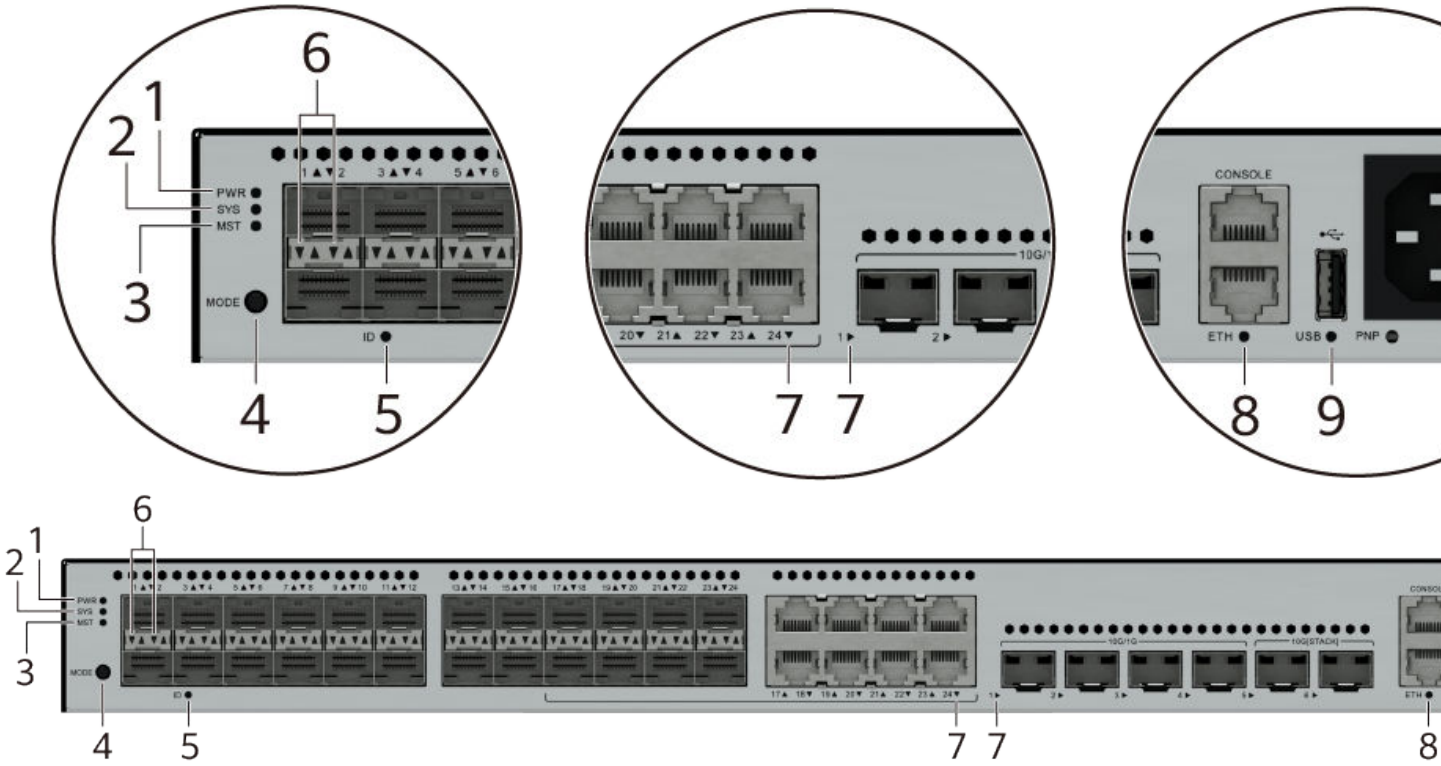

Table 4-369 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.

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No.	Indicator	Name	Color	Status	Description
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.

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No.	Indicator	Name	Color	Status	Description
4	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
5	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
6	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-370** and **Table 4-371**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Electrical or optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ETH	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

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No.	Indicator	Name	Color	Status	Description
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-370 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

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Table 4-371 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
MST stack mode (LINK indicator)	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
MST stack mode (ACT indicator)	-	Off	Port indicators do not show the stack ID of the switch.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	100/1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

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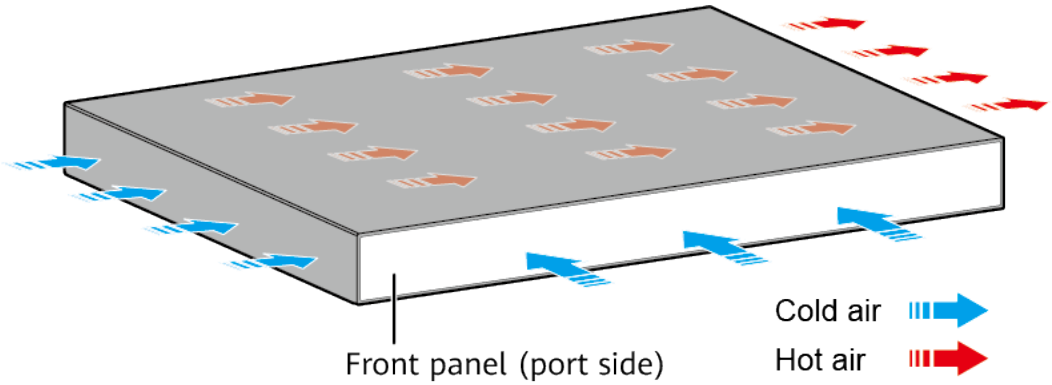
Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-372 Technical specifications of the S5735-L24ST4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.9 kg (6.39 lb)
Weight with packaging [kg(lb)]	3.55 kg (7.83 lb)
Typical power consumption [W]	32.6 W
Typical heat dissipation [BTU/hour]	111.23 BTU/hour

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Item	Specification
Maximum power consumption [W]	41.7 W
Maximum heat dissipation [BTU/hour]	142.28 BTU/hour
Static power consumption [W]	17.57 W
MTBF [years]	47.39 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	38.1 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	26.1 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 110 V DC to 250 V DC
Input voltage range [V]	• AC input: 90 V AC to 264 V AC; 47 Hz to 63 Hz • High-voltage DC input: 88 V DC to 300 V DC

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Item	Specification
Maximum input current [A]	2 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.51 S5735-L24ST4XE-A-V2 (98012225-001)

Overview

Table 4-373 Basic information about the S5735-L24ST4XE-A-V2

Item	Details
Description	S5735-L24ST4XE-A-V2 WB (24*GE SFP ports, 8 of which are dual-purpose 10/100/1000 or SFP, 4*10GE SFP+ ports, 2*12GE stack ports, built-in AC power, front access)
Part Number	98012225-001

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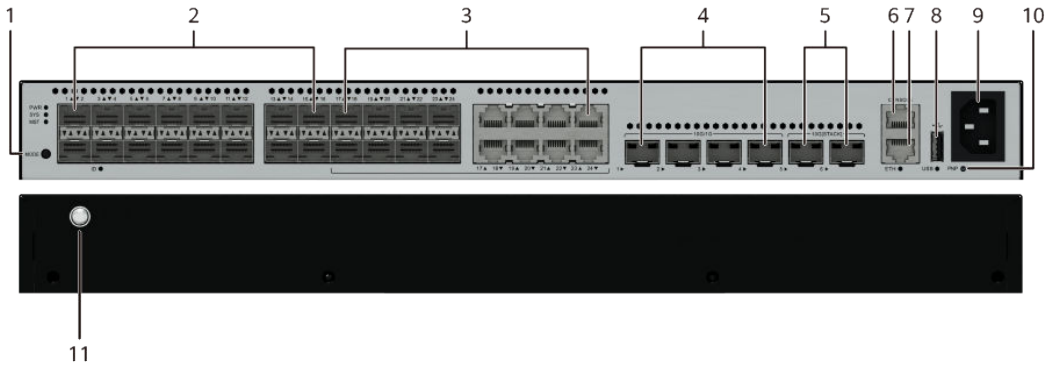
Item	Details
Model	S5735-L24ST4XE-A-V2
First supported version	V600R023C00

Components

Figure 4-137 S5735-L24ST4XE-A-V2 appearance



1	One MODE button	2	Sixteen 100/1000BASE-X ports
3	Eight Combo ports (100/1000BASE-X optical ports and 10/100/1000BASE-T electrical ports)	4	Four 10GE SFP+ ports
5	Two stack ports	6	One console port
7	One ETH management port	8	One USB port
9	AC socket **NOTE** It is used with an **AC power cable**.	10	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
11	Ground screw **NOTE** It is used with a **ground cable**.	-	-

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Ports

Table 4-374 Ports on the S5735-L24ST4XE-A-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**
Combo port (10/100/1000BASE-T + 100/1000BASE-X)	RJ45/SFP	A combo port refers to a pair of ports consisting of an optical Ethernet port and an electrical Ethernet port on the panel. Each combo port matches only one internal forwarding port. A combo port can be configured as an electrical port or an optical port, but only one port can be active at a time. When one port is active, the other port is shut down.	• **Ethernet cable** • **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-138 Indicators on the Switch

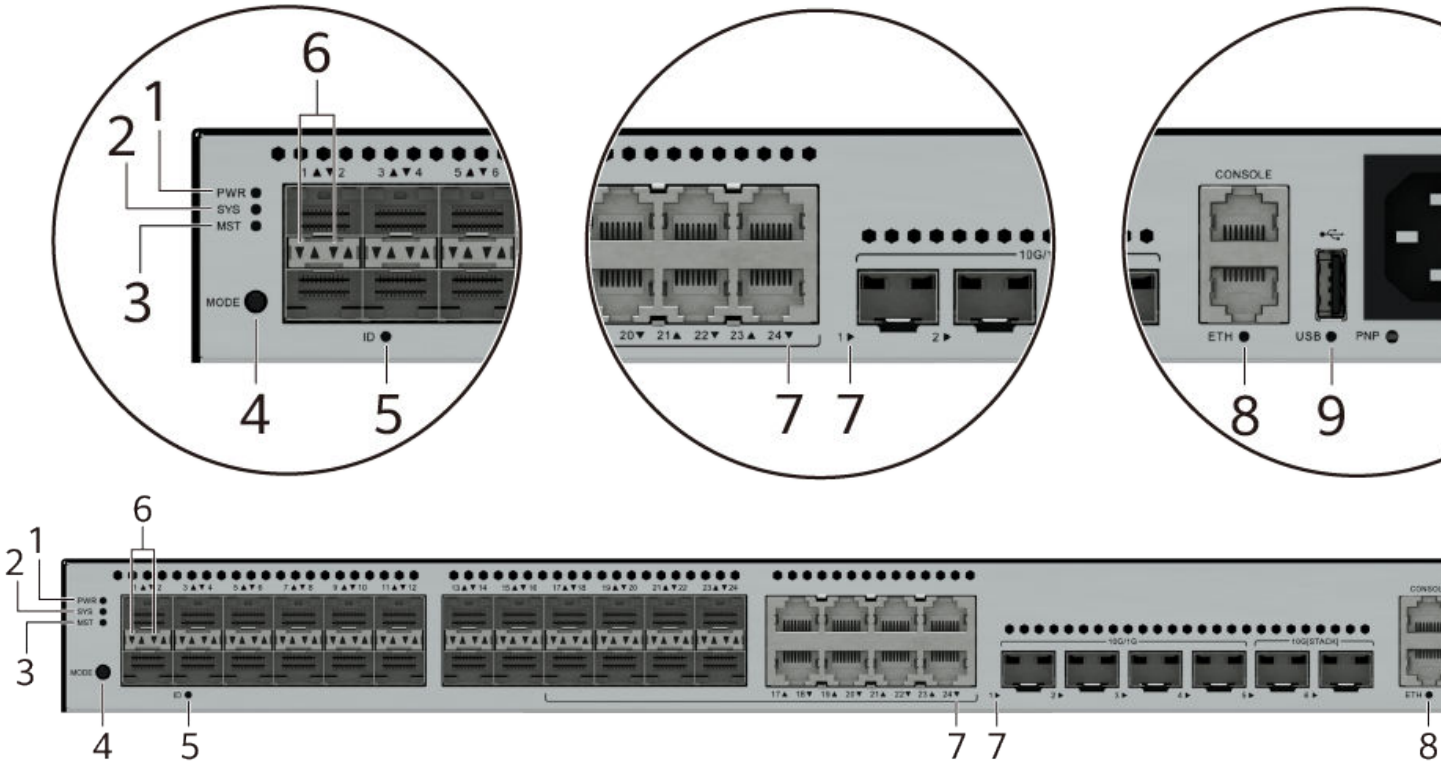

Table 4-375 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.

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No.	Indicator	Name	Color	Status	Description
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.

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No.	Indicator	Name	Color	Status	Description
4	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
5	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
6	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-376** and **Table 4-377**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Electrical or optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ETH	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

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No.	Indicator	Name	Color	Status	Description
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-376 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

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Table 4-377 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
MST stack mode (LINK indicator)	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
MST stack mode (ACT indicator)	-	Off	Port indicators do not show the stack ID of the switch.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	100/1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

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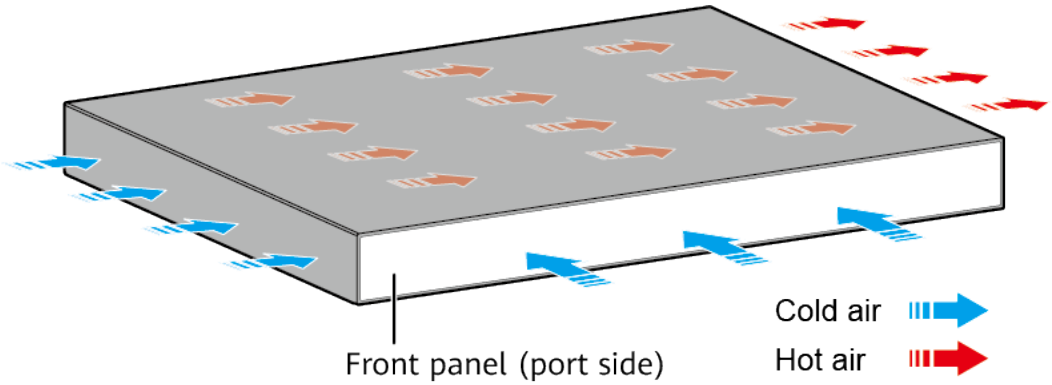
Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-378 Technical specifications of the S5735-L24ST4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.9 kg (6.39 lb)
Weight with packaging [kg(lb)]	3.55 kg (7.83 lb)
Typical power consumption [W]	32.6 W
Typical heat dissipation [BTU/hour]	111.23 BTU/hour

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Item	Specification
Maximum power consumption [W]	41.7 W
Maximum heat dissipation [BTU/hour]	142.28 BTU/hour
Static power consumption [W]	17.57 W
MTBF [years]	47.39 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	38.1 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	26.1 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 110 V DC to 250 V DC
Input voltage range [V]	• AC input: 90 V AC to 264 V AC; 47 Hz to 63 Hz • High-voltage DC input: 88 V DC to 300 V DC

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Item	Specification
Maximum input current [A]	2 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.52 S5735-L48S4X-A-V2

Overview

Table 4-379 Basic information about the S5735-L48S4X-A-V2

Item	Details
Description	S5735-L48S4X-A-V2 (48*GE SFP ports, 4*10GE SFP+ ports, built-in AC power, front access)
Part Number	98012273
Model	S5735-L48S4X-A-V2

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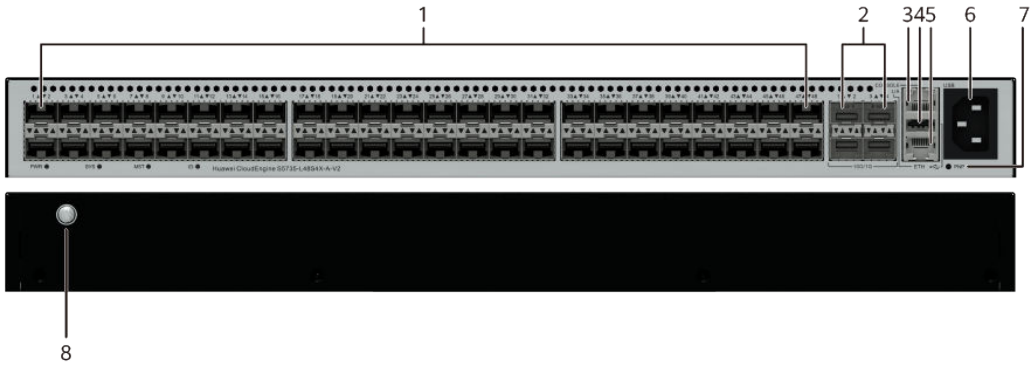
Item	Details
First supported version	V600R023C00
Remarks	Copper modules can be installed on a maximum of 24 1000BASE-X optical ports.

Components

Figure 4-139 S5735-L48S4X-A-V2 appearance



1	Forty-eight 100/1000BASE-X ports	2	Four 10GE SFP+ ports
3	One console port	4	One USB port
5	One ETH management port	6	AC socket **NOTE** It is used with an **AC power cable**.
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.

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Ports

Table 4-380 Ports on the S5735-L48S4X-A-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-140 Indicators on the Switch

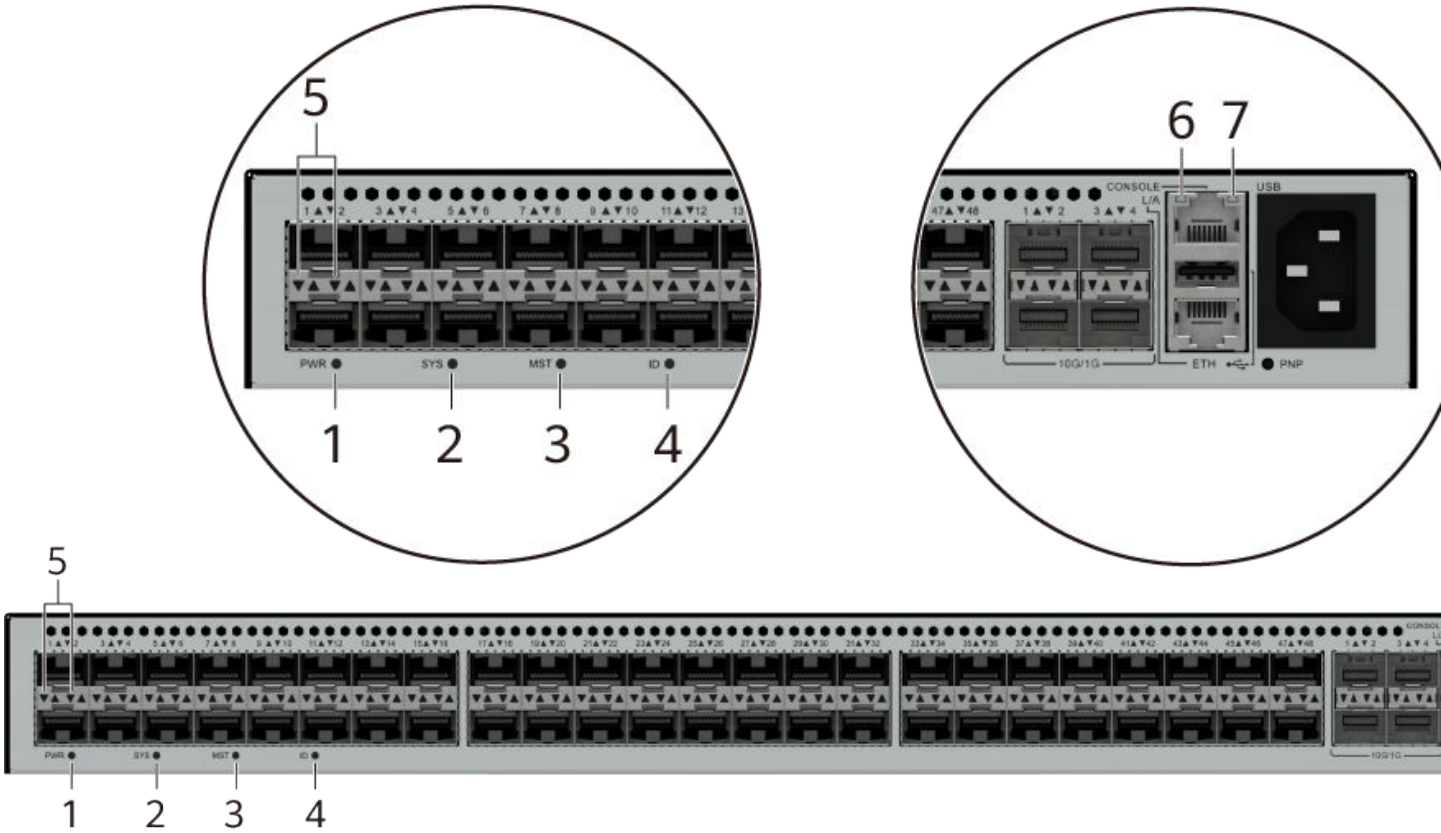

Table 4-381 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.

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No.	Indicator	Name	Color	Status	Description
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
4	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
5	-	Service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-382**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

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No.	Indicator	Name	Color	Status	Description
7	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-382 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s. • 100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 100/1000BASE-X port: The port is operating at 1000 Mbit/s.

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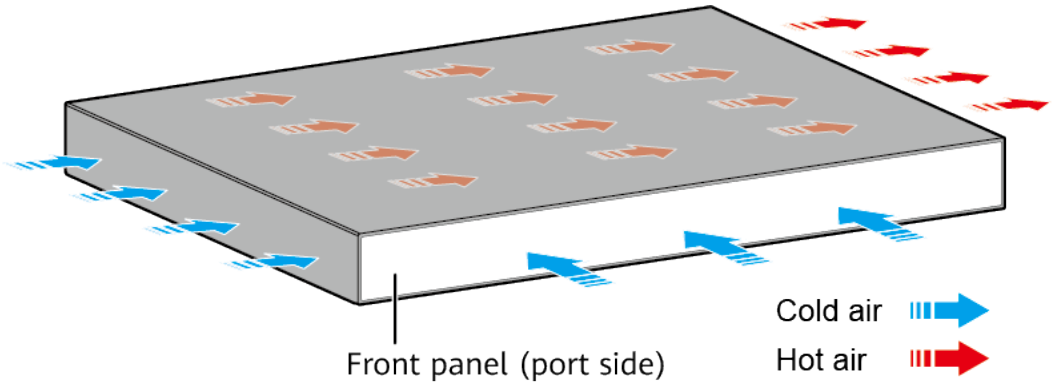
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-383 Technical specifications of the S5735-L48S4X-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.28 kg (7.23 lb)

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Item	Specification
Weight with packaging [kg(lb)]	3.89 kg (8.58 lb)
Typical power consumption [W]	65.6 W
Typical heat dissipation [BTU/hour]	223.83 BTU/hour
Maximum power consumption [W]	84.1 W
Maximum heat dissipation [BTU/hour]	286.96 BTU/hour
Static power consumption [W]	32 W
MTBF [years]	47.14 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	45.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	33.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz

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Item	Specification
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.53 S5735-L48S4XE-A-V2 (98012226)

Overview

Table 4-384 Basic information about the S5735-L48S4XE-A-V2

Item	Details
Description	S5735-L48S4XE-A-V2 (48*GE SFP ports, 4*10GE SFP+ ports, 2*12GE stack ports, built-in AC power)
Part Number	98012226
Model	S5735-L48S4XE-A-V2

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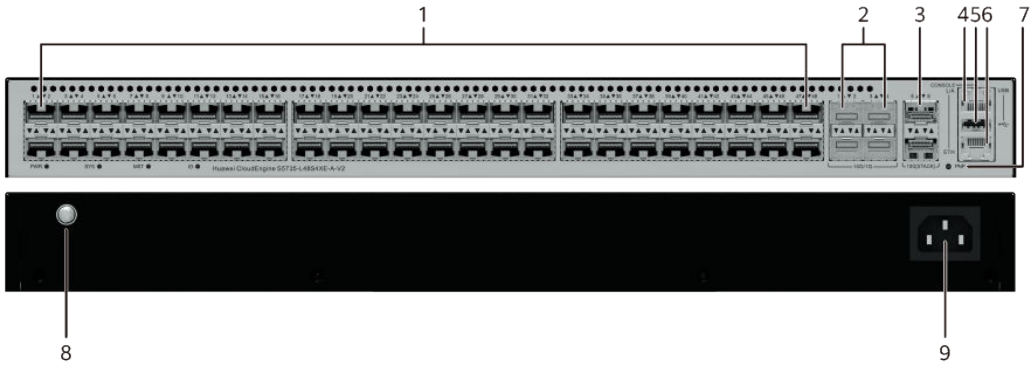
Item	Details
First supported version	V600R023C00
Remarks	Copper modules can be installed on a maximum of 24 1000BASE-X optical ports.

Components

Figure 4-141 S5735-L48S4XE-A-V2 appearance



1	Forty-eight 100/1000BASE-X ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One ETH management port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	AC socket **NOTE** It is used with an **AC power cable**.	-	-

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Ports

Table 4-385 Ports on the S5735-L48S4XE-A-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L48S4XE-A-V2 has similar indicators to those on the S5735-L48S4X-A-V2. For details, see the S5735-L48S4X-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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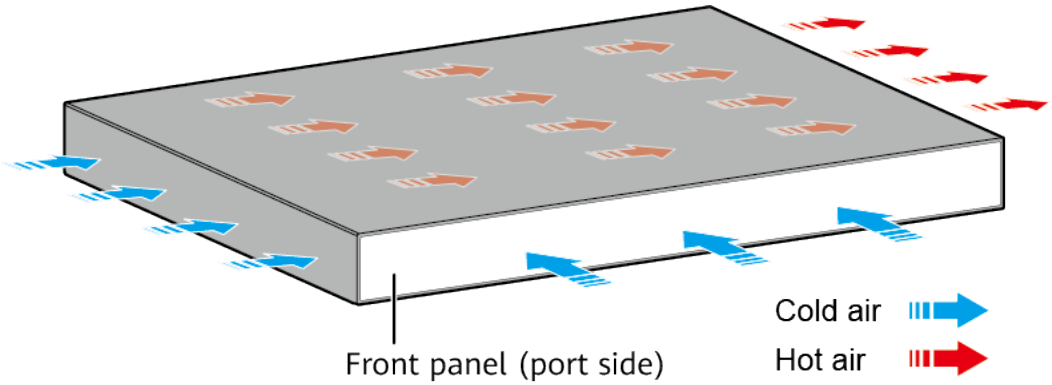

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-386 Technical specifications of the S5735-L48S4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.2 kg (7.1 lb)
Weight with packaging [kg(lb)]	3.82 kg (8.42 lb)
Typical power consumption [W]	66.6 W
Typical heat dissipation [BTU/hour]	227.25 BTU/hour
Maximum power consumption [W]	85.5 W
Maximum heat dissipation [BTU/hour]	291.73 BTU/hour
Static power consumption [W]	32 W
MTBF [years]	46.98 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	45.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	33.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.54 S5735-L48S4XE-A-V2 (98012226-001)

Overview

Table 4-387 Basic information about the S5735-L48S4XE-A-V2

Item	Details
Description	S5735-L48S4XE-A-V2 WB (48*GE SFP ports, 4*10GE SFP+ ports, 2*12GE stack ports, built-in AC power)
Part Number	98012226-001
Model	S5735-L48S4XE-A-V2
First supported version	V600R022C01
Remarks	Copper modules can be installed on a maximum of 24 1000BASE-X optical ports.

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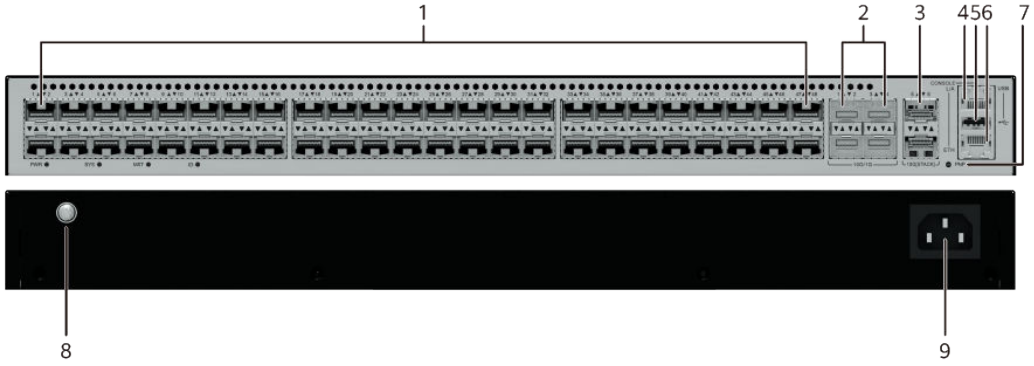
Components

Figure 4-142 S5735-L48S4XE-A-V2 appearance



1	Forty-eight 100/1000BASE-X ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One ETH management port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	AC socket **NOTE** It is used with an **AC power cable**.	-	-

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Ports

Table 4-388 Ports on the S5735-L48S4XE-A-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-L48S4XE-A-V2 has similar indicators to those on the S5735-L48S4X-A-V2. For details, see the S5735-L48S4X-A-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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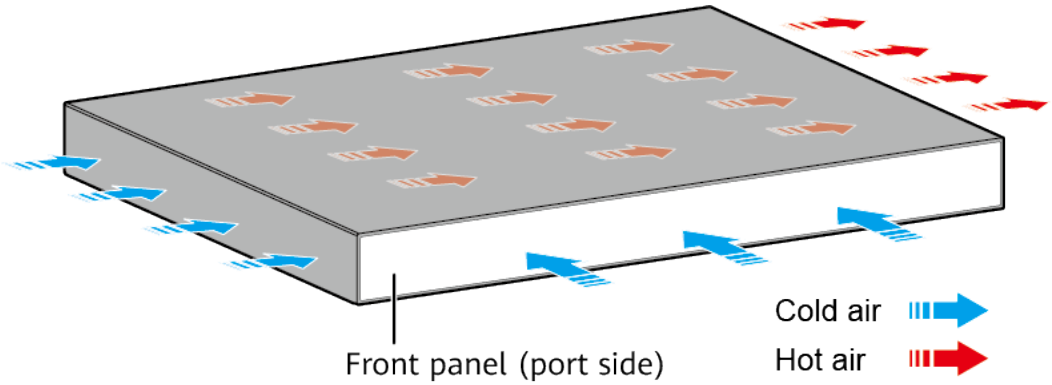

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-389 Technical specifications of the S5735-L48S4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.2 kg (7.1 lb)
Weight with packaging [kg(lb)]	3.82 kg (8.42 lb)
Typical power consumption [W]	66.6 W
Typical heat dissipation [BTU/hour]	227.25 BTU/hour
Maximum power consumption [W]	85.5 W
Maximum heat dissipation [BTU/hour]	291.73 BTU/hour
Static power consumption [W]	32 W
MTBF [years]	46.98 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	45.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	33.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.55 S5735-L24PN4XE-A-V2

Overview

Table 4-390 Basic information about the S5735-L24PN4XE-A-V2

Item	Details
Description	S5735-L24PN4XE-A-V2 (24*10/100/1000/2.5GBASE-T ports(PoE+), 4*10GE SFP+ ports, 2*12GE stack ports, 400W PoE, built-in AC power)
Part Number	98012398
Model	S5735-L24PN4XE-A-V2
First supported version	V600R023C10

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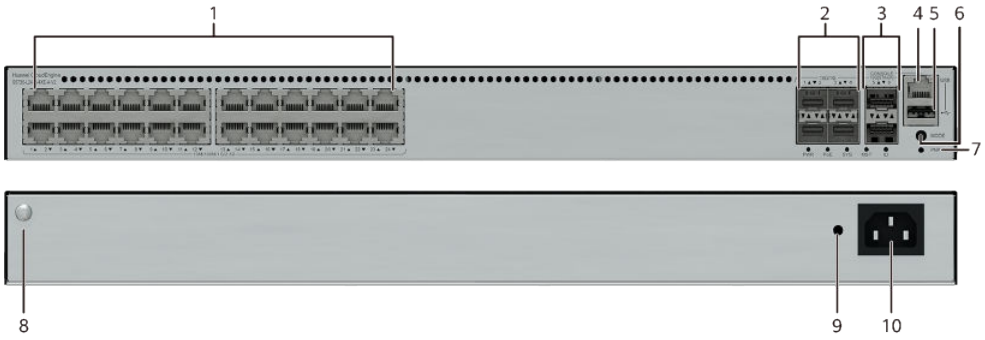
Components

Figure 4-143 S5735-L24PN4XE-A-V2 appearance



1	Twenty-four 10M/100M/1000M/ 2.5GE BASE-T PoE+ ports (multi-GE ports)	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-391 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)	
	10M/100M/1000M	2.5GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

Table 4-392 Ports on the S5735-L24PN4XE-A-V2

Port	Connector Type	Description	Available Components
10M/100M/1G/2.5GE BASE-T PoE + port (multi-GE port)	RJ45	A 10M/100M/1G/2.5GE BASE-T PoE + port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s. The port supports the PoE function.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

The S5735-L24PN4XE-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2. For details, see the S5735-L48P4XE-A-V2.

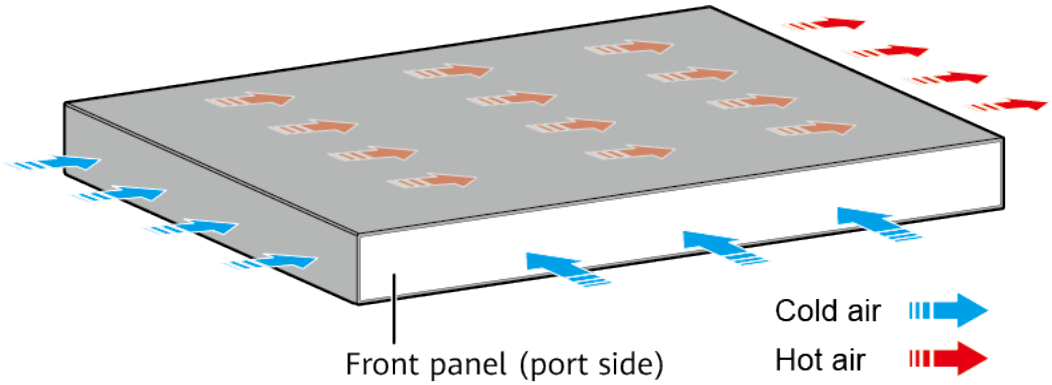
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-393 Technical specifications of the S5735-L24PN4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.4 in. x 17.56 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.71 kg (10.38 lb)
Weight with packaging [kg(lb)]	6.89 kg (15.19 lb)
Typical power consumption [W]	54.8 W
Typical heat dissipation [BTU/hour]	186.98 BTU/hour
Maximum power consumption [W]	• Without PoE: 77.70 W • Full PoE load: 517.30 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 265.12 • Full PoE load: 1765.08
Static power consumption [W]	37.1 W
MTBF [years]	54.48 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	34.22 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20

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Item	Specification
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.56 S5735-L48LPN4XE-A-V2

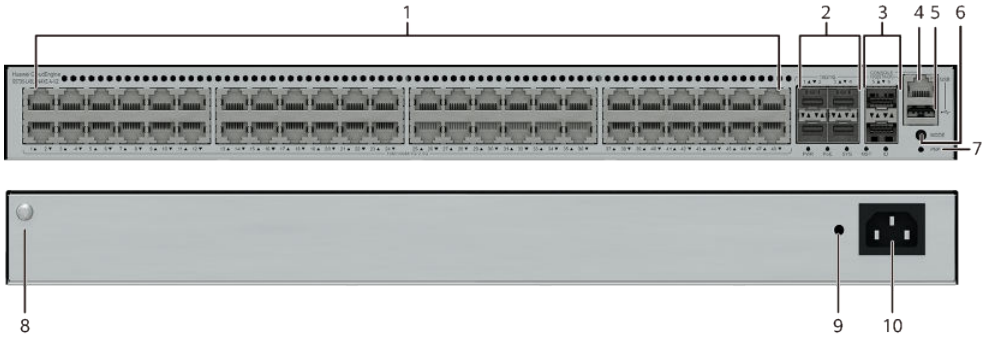
Overview

Table 4-394 Basic information about the S5735-L48LPN4XE-A-V2

Item	Details
Description	S5735-L48LPN4XE-A-V2 (48*10/100/1000/2.5GBASE-T ports(PoE+), 4*10GE SFP+ ports, 2*12GE stack ports, 360W PoE, built-in AC power)
Part Number	98012397
Model	S5735-L48LPN4XE-A-V2
First supported version	V600R023C10

Components

Figure 4-144 S5735-L48LPN4XE-A-V2 appearance



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1	Forty-eight 10M/100M/1000M/ 2.5GE BASE-T PoE+ ports (multi-GE ports)	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-395 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)	
	10M/100M/1000M	2.5GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)	
	10M/100M/1000M	2.5GE
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

Table 4-396 Ports on the S5735-L48LPN4XE-A-V2

Port	Connector Type	Description	Available Components
10M/100M/1G/2.5GE BASE-T PoE + port (multi-GE port)	RJ45	A 10M/100M/1G/2.5GE BASE-T PoE + port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s. The port supports the PoE function.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

The S5735-L48LPN4XE-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2. For details, see the S5735-L48P4XE-A-V2.

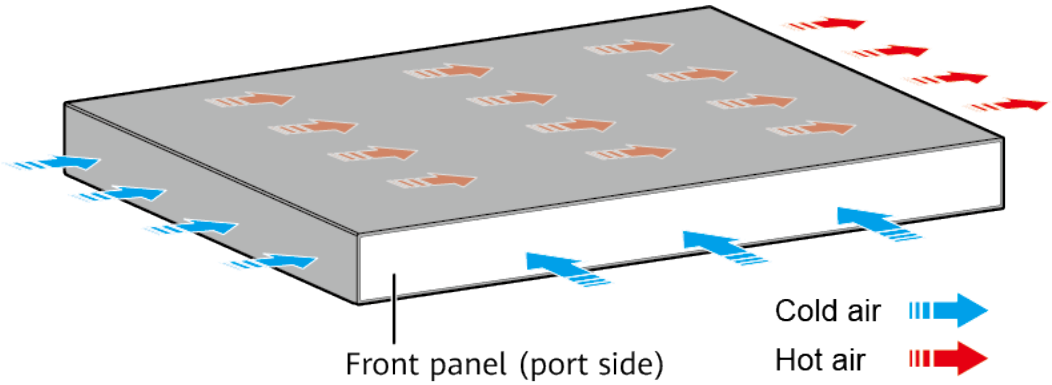
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 360 W PoE power, which ensures full PoE power on 23 ports in compliance with 802.3af or on 12 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-397 Technical specifications of the S5735-L48LPN4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.4 in. x 17.56 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.25 kg (11.57 lb)
Weight with packaging [kg(lb)]	7.42 kg (16.36 lb)
Typical power consumption [W]	89.15 W
Typical heat dissipation [BTU/hour]	304.19 BTU/hour
Maximum power consumption [W]	• Without PoE: 117.20 W • Full PoE load: 512.50 W (PoE: 360 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 399.90 • Full PoE load: 1748.70
Static power consumption [W]	54.9 W
MTBF [years]	43.36 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	51.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.72 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20

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Item	Specification
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.8.57 S5735-L48PN4XE-A-V2

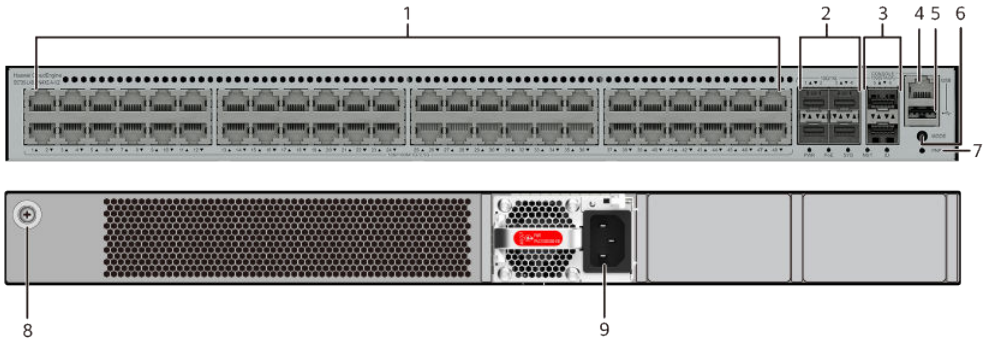
Overview

Table 4-398 Basic information about the S5735-L48PN4XE-A-V2

Item	Details
Description	S5735-L48PN4XE-A-V2 (48*10M/100M/1G/2.5GE BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE+, 828W PoE, 1*1000W AC power)
Part Number	98012370
Model	S5735-L48PN4XE-A-V2
First supported version	V600R024C00

Components

Figure 4-145 S5735-L48PN4XE-A-V2 appearance



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1	Forty-eight 10M/100M/1000M/ 2.5GE BASE-T PoE+ ports (multi-GE ports)	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot **NOTE** Applicable power modules: • **PAC1000S56-EB**	-	-

Ports

Table 4-399 Ports on the S5735-L48PN4XE-A-V2

Port	Connector Type	Description	Available Components
10M/100M/1G/ 2.5GE BASE-T port (multi-GE port)	RJ45	A 10M/100M/1G/ 2.5GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

The S5735-L48PN4XE-A-V2 has similar indicators to those on the S5735-L48P4XE-A-V2. For details, see the S5735-L48P4XE-A-V2.

Power Supply System

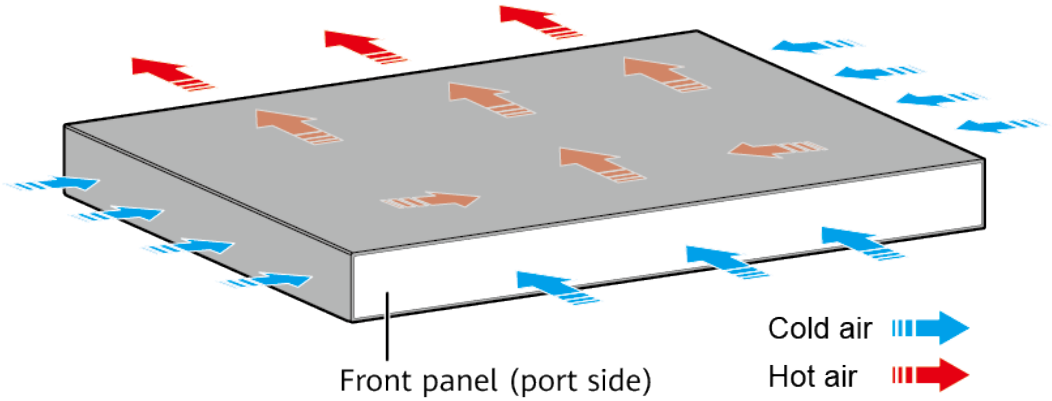
The switch is a PoE switch and supports one power module slot, which can have a 1000 W PoE power module installed.

Table 4-400 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27
1000 W AC (110 V)	738 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 24

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-401 Technical specifications of the S5735-L48PN4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.51 kg (14.35 lb)
Weight with packaging [kg(lb)]	8.29 kg (18.28 lb)
Typical power consumption [W]	82.19 W
Typical heat dissipation [BTU/hour]	280.44 BTU/hour
Maximum power consumption [W]	• Without PoE: 110.81 W • Full PoE load: 978.5 W (PoE: 828 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 378.10 • Full PoE load: 3338.74
Static power consumption [W]	55.57 W
MTBF [years]	32.22 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	67 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	55 dB(A)
Number of card slots	0
Number of power slots	1
Number of fans modules	2

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV

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Item	Specification
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.9 S5735E-L-V2

4.9.1 S5735E-L8T4X-QA-V2

Overview

Table 4-402 Basic information about the S5735E-L8T4X-QA-V2

Item	Details
Description	S5735E-L8T4X-QA-V2 (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, built-in AC power, Fanless)
Part Number	98012855
Model	S5735E-L8T4X-QA-V2
First supported version	V600R024C10

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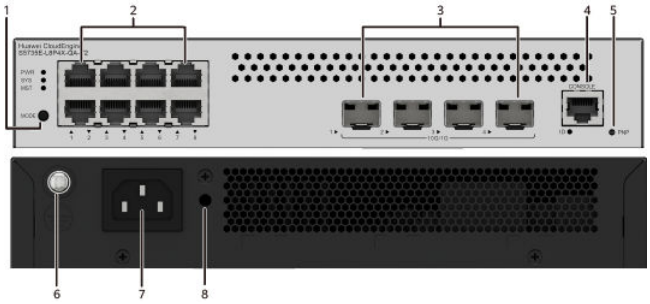
Components

Figure 4-146 S5735E-L8T4X-QA-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	AC socket **NOTE** It is used with an **AC power cable**.	8	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.

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Ports

Table 4-403 Ports on the S5735E-L8T4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

Indicators and Buttons

The S5735E-L8T4X-QA-V2 has similar indicators to those on the S5735E-L24P4XE-A-V2 except that the S5735E-L8T4X-QA-V2 does not have a PoE mode indicator and a USB indicator. For details, see the S5735E-L24P4XE-A-V2.

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Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-404 Technical specifications of the S5735E-L8T4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 180.0 mm (1.72 in. x 9.84 in. x 7.1 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 187.0 mm (1.72 in. x 9.84 in. x 7.36 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 370.0 mm x 380.0 mm (3.54 in. x 14.57 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.40 kg (3.09 lb)
Weight with packaging [kg(lb)]	2.21 kg (4.87 lb)
Typical power consumption [W]	16.2 W
Typical heat dissipation [BTU/hour]	55.28 BTU/hour
Maximum power consumption [W]	16.97 W
Maximum heat dissipation [BTU/hour]	57.9 BTU/hour
Static power consumption [W]	10.05 W
MTBF [years]	76.15 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0

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Item	Specification
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20

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Item	Specification
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.9.2 S5735E-L8P4X-QA-V2

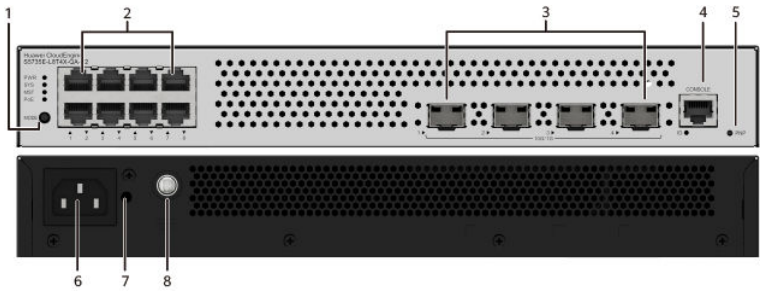
Overview

Table 4-405 Basic information about the S5735E-L8P4X-QA-V2

Item	Details
Description	S5735E-L8P4X-QA-V2 (8*10/100/1000BASE-T ports(PoE+), 4*10GE SFP+ ports, 125 W PoE, built-in AC power, Fanless)
Part Number	98012857
Model	S5735E-L8P4X-QA-V2
First supported version	V600R024C10

Components

Figure 4-147 S5735E-L8P4X-QA-V2 appearance



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1	One MODE button	2	Eight 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	AC socket **NOTE** It is used with an **AC power cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	Ground screw **NOTE** It is used with a **ground cable**.

Ports

Table 4-406 Ports on the S5735E-L8P4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

Indicators and Buttons

The S5735E-L8P4X-QA-V2 has similar indicators to those on the S5735E-L24P4XE-A-V2 except that the S5735E-L8P4X-QA-V2 does not have a USB indicator. For details, see the S5735E-L24P4XE-A-V2.

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Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-407 Technical specifications of the S5735E-L8P4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 320.0 mm x 210.0 mm (1.72 in. x 12.6 in. x 8.27 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 320.0 mm x 217.0 mm (1.72 in. x 12.6 in. x 8.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 465.0 mm x 380.0 mm (3.54 in. x 18.31 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.24 kg (4.94 lb)
Weight with packaging [kg(lb)]	3.06 kg (6.75 lb)
Typical power consumption [W]	21.16 W
Typical heat dissipation [BTU/hour]	72.2 BTU/hour
Maximum power consumption [W]	• Without PoE: 22.21 W • Full PoE load: 152.55 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 75.78 • Full PoE load: 520.52
Static power consumption [W]	15.24 W
MTBF [years]	70.41 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.9.3 S5735E-L16LP2X-QA-V2

Overview

Table 4-408 Basic information about the S5735E-L16LP2X-QA-V2

Item	Details
Description	S5735E-L16LP2X-QA-V2 (16*10/100/1000BASE-T ports, 2*10GE SFP+ ports, PoE+, 125W PoE, built-in AC power, Fanless)
Part Number	98012898
Model	S5735E-L16LP2X-QA-V2
First supported version	V600R024C10

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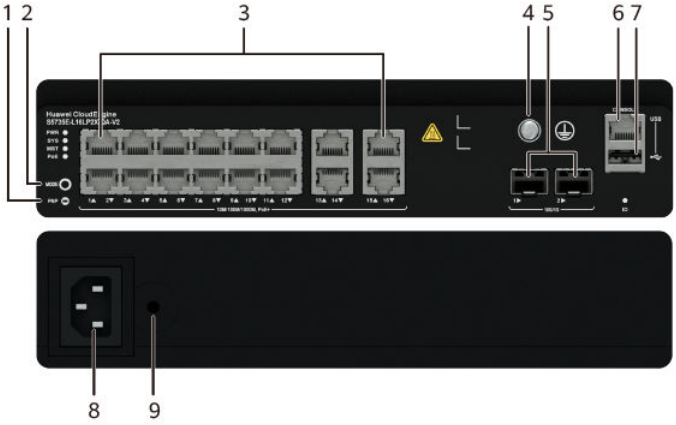
Components

Figure 4-148 S5735E-L16LP2X-QA-V2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Sixteen 10/100/1000BASE-T PoE+ ports	4	Ground screw **NOTE** It is used with a **ground cable**.
5	Two 10GE SFP+ ports	6	One console port
7	One USB port	8	AC socket **NOTE** It is used with an **AC power cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	-	-

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Ports

Table 4-409 Ports on the S5735E-L16LP2X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735E-L16LP2X-QA-V2 has similar indicators to those on the S5735E-L16LP2UM2X-QA-V2. For details, see the S5735E-L16LP2UM2X-QA-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-410 Technical specifications of the S5735E-L16LP2X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 54.0 mm x 250.0 mm x 220.0 mm (2.13 in. x 9.84 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 54.0 mm x 250.0 mm x 225.0 mm (2.13 in. x 9.84 in. x 8.86 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	110 mm x 300 mm x 355 mm (4.33 in. x 11.81 in. x 13.98 in.)
Chassis height [U]	1.2 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.75 kg (6.06 lb)
Weight with packaging [kg(lb)]	3.35 kg (7.39 lb)
Typical power consumption [W]	20.7 W
Typical heat dissipation [BTU/hour]	70.63 BTU/hour
Maximum power consumption [W]	• Without PoE: 25.41 W • Full PoE load: 162.82 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 86.70 • Full PoE load: 555.56
Static power consumption [W]	20.7 W
MTBF [years]	59.41 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90–290 V AC; 45–65 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-

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Item	Specification
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.9.4 S5735E-L16LP2UM2X-QA-V2

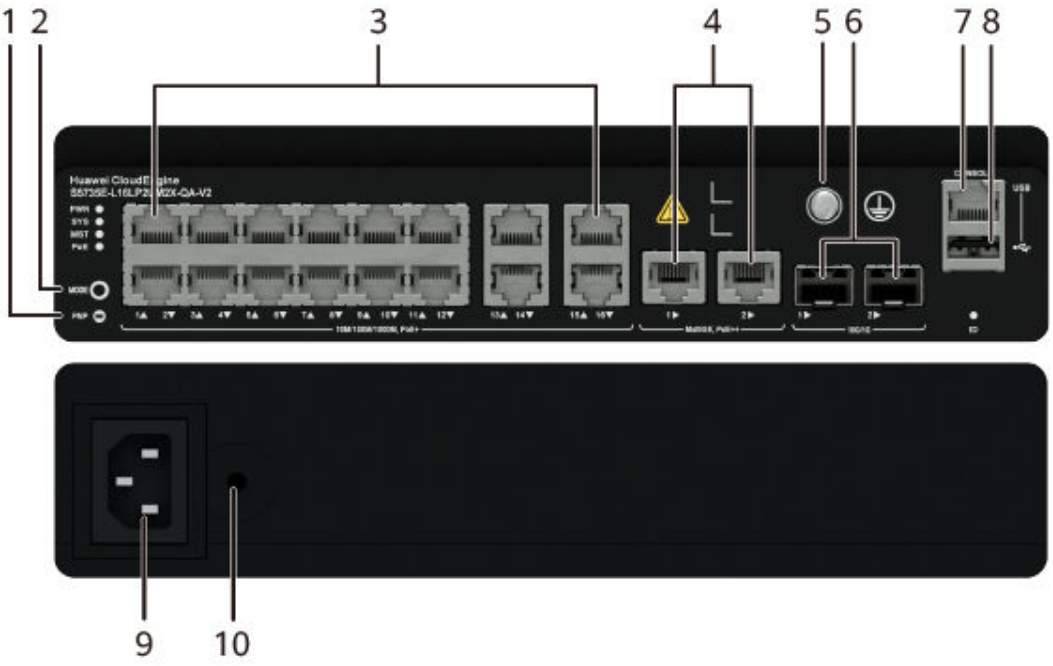
Overview

Table 4-411 Basic information about the S5735E-L16LP2UM2X-QA-V2

Item	Details
Description	S5735E-L16LP2UM2X-QA-V2 (16*10/100/1000BASE-T ports(PoE+), 2*100M/1G/2.5G/5G/10G Ethernet ports(PoE++), 2*10GE SFP+ ports, 125W PoE, built-in AC power, Fanless)
Part Number	98012899
Model	S5735E-L16LP2UM2X-QA-V2
First supported version	V600R024C10

Components

Figure 4-149 S5735E-L16LP2UM2X-QA-V2 appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Sixteen 10/100/1000BASE-T PoE+ ports	4	Two 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)
5	Ground screw **NOTE** It is used with a **ground cable**.	6	Two 10GE SFP+ ports
7	One console port	8	One USB port
9	AC socket **NOTE** It is used with an **AC power cable**.	10	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.

Ports

Table 4-412 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

Table 4-413 Ports on the S5735E-L16LP2UM2X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s, and must use an Ethernet cable.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-150 Indicators on the Switch

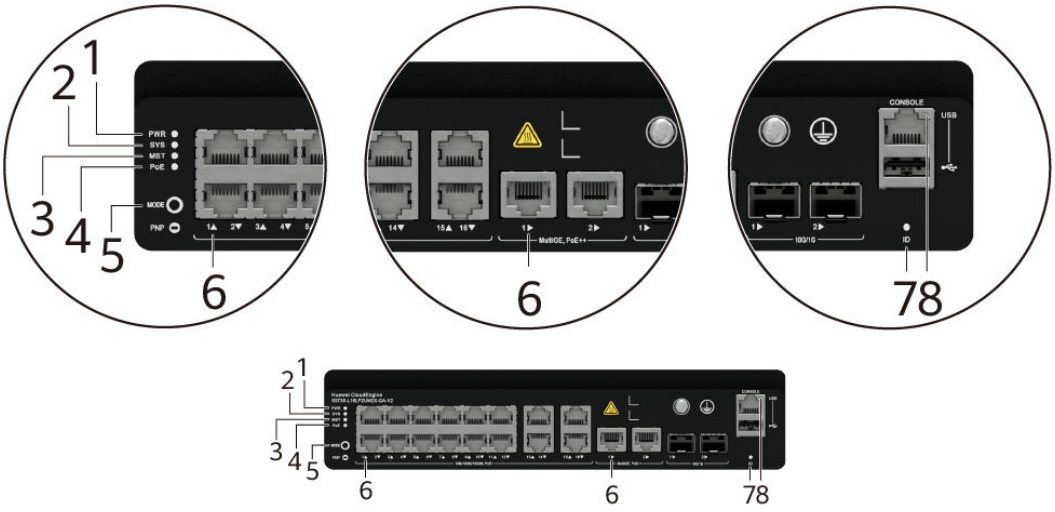

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Table 4-414 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-415**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-415 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 100/1000BASE-X port: The port is operating at 100 Mbit/s. • 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, or 5 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 100/1000BASE-X port: The port is operating at 1000 Mbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s. • 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 10 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

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Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af, 4 ports in compliance with 802.3at, 2 ports in compliance with 802.3bt (60 W per port), or 1 port in compliance with 802.3bt (90 W per port).

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-416 Technical specifications of the S5735E-L16LP2UM2X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 54.0 mm x 250.0 mm x 220.0 mm (2.13 in. x 9.84 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 54.0 mm x 250.0 mm x 225.0 mm (2.13 in. x 9.84 in. x 8.86 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	110 mm x 300 mm x 355 mm (4.33 in. x 11.81 in. x 13.98 in.)
Chassis height [U]	1.2 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.81 kg (6.2 lb)
Weight with packaging [kg(lb)]	3.4 kg (7.5 lb)
Typical power consumption [W]	24.37 W
Typical heat dissipation [BTU/hour]	83.15 BTU/hour
Maximum power consumption [W]	• Without PoE: 29.20 W • Full PoE load: 166.40 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 99.63 • Full PoE load: 567.77
Static power consumption [W]	24.37 W
MTBF [years]	55.16 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90–290 V AC; 45–65 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.9.5 S5735E-L24P4S-A-V2

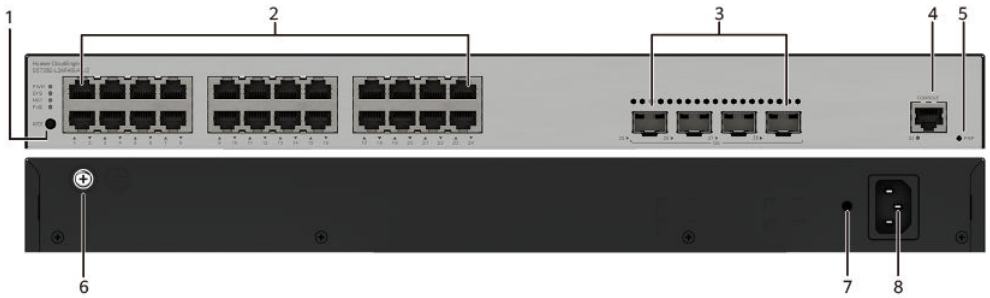
Overview

Table 4-417 Basic information about the S5735E-L24P4S-A-V2

Item	Details
Description	S5735E-L24P4S-A-V2 (24*10/100/1000BASE-T ports(PoE+), 4*GE SFP ports, 400W PoE, AC power)
Part Number	98012877
Model	S5735E-L24P4S-A-V2
First supported version	V600R024C10

Components

Figure 4-151 S5735E-L24P4S-A-V2 appearance



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1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-418 Ports on the S5735E-L24P4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • 0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735E-L24P4S-A-V2 has similar indicators to those on the S5735E-L24P4XE-A-V2 except that the S5735E-L24P4S-A-V2 does not have a USB indicator. For details, see the S5735E-L24P4XE-A-V2.

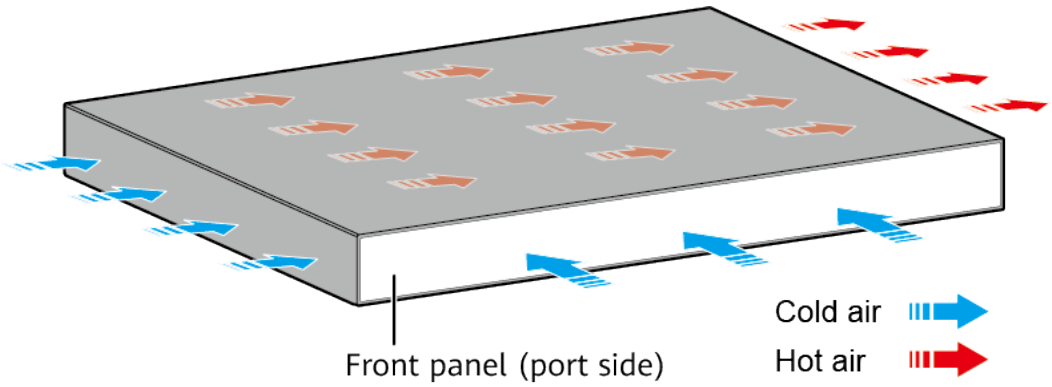
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-419 Technical specifications of the S5735E-L24P4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.92 kg (6.44 lb)
Weight with packaging [kg(lb)]	3.79 kg (8.36 lb)
Typical power consumption [W]	36.32 W
Typical heat dissipation [BTU/hour]	123.93 BTU/hour
Maximum power consumption [W]	• Without PoE: 43.35 W • Full PoE load: 484.91 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 147.91 • Full PoE load: 1654.56
Static power consumption [W]	27.07 W
MTBF [years]	60.18 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.9.6 S5735E-L48LP4S-A-V2

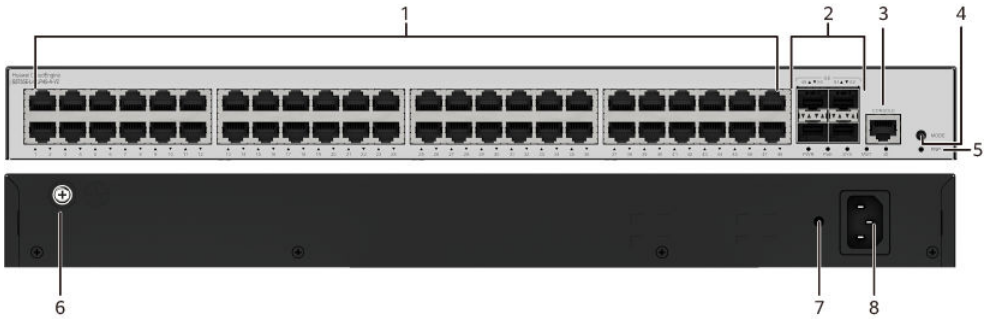
Overview

Table 4-420 Basic information about the S5735E-L48LP4S-A-V2

Item	Details
Description	S5735E-L48LP4S-A-V2 (48*10/100/1000BASE-T ports, 4*GE SFP ports, 380W PoE+, built-in AC power)
Part Number	98012891
Model	S5735E-L48LP4S-A-V2
First supported version	V600R024C10

Components

Figure 4-152 S5735E-L48LP4S-A-V2 appearance



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1	Forty-eight 10/100/1000BASE-T PoE + ports	2	Four 1000BASE-X ports
3	One console port	4	One MODE button
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-421 Ports on the S5735E-L48LP4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection)** • **10 m SFP+ AOC cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

Indicators and Buttons

The S5735E-L48LP4S-A-V2 has similar indicators to those on the S5735E-L48LP4XE-A-V2 except that the S5735E-L48LP4S-A-V2 does not have a USB indicator. For details, see the S5735E-L48LP4XE-A-V2.

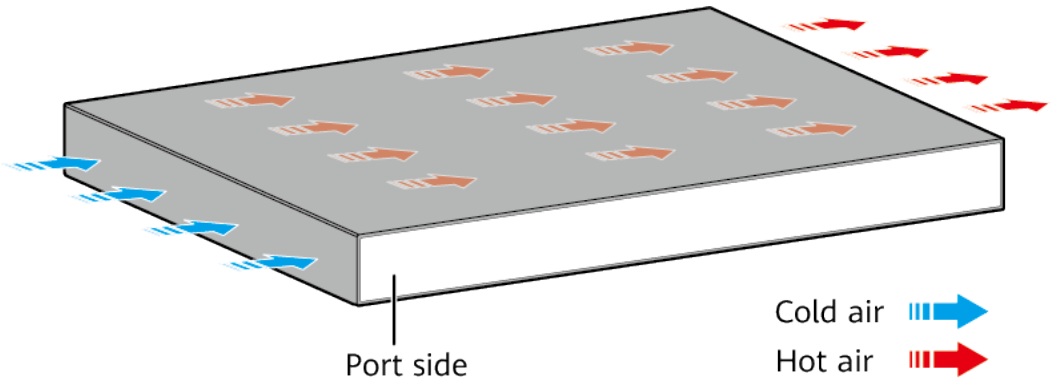
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 380 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 12 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-422 Technical specifications of the S5735E-L48LP4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.24 kg (7.14 lb)
Weight with packaging [kg(lb)]	4.29 kg (9.46 lb)
Typical power consumption [W]	48.64 W
Typical heat dissipation [BTU/hour]	165.96 BTU/hour
Maximum power consumption [W]	• Without PoE: 63.70 W • Full PoE load: 462.80 W (PoE: 380 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 217.35 • Full PoE load: 1579.12
Static power consumption [W]	34.04 W
MTBF [years]	48.14 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV

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Item	Specification
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.9.7 S5735E-L24T4XE-A-V2

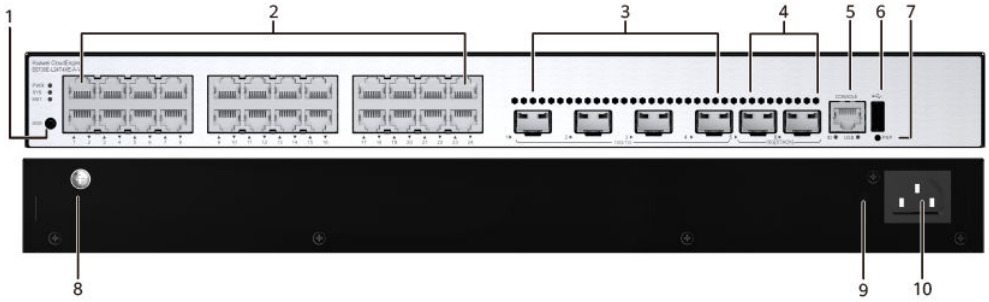
Overview

Table 4-423 Basic information about the S5735E-L24T4XE-A-V2

Item	Details
Description	S5735E-L24T4XE-A-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, AC power)
Part Number	98012871
Model	S5735E-L24T4XE-A-V2
First supported version	V600R024C10

Components

Figure 4-153 S5735E-L24T4XE-A-V2 appearance



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1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-424 Ports on the S5735E-L24T4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

The S5735E-L24T4XE-A-V2 has similar indicators to those on the S5735E-L24P4XE-A-V2 except that the S5735E-L24T4XE-A-V2 does not have a PoE mode indicator. For details, see the S5735E-L24P4XE-A-V2.

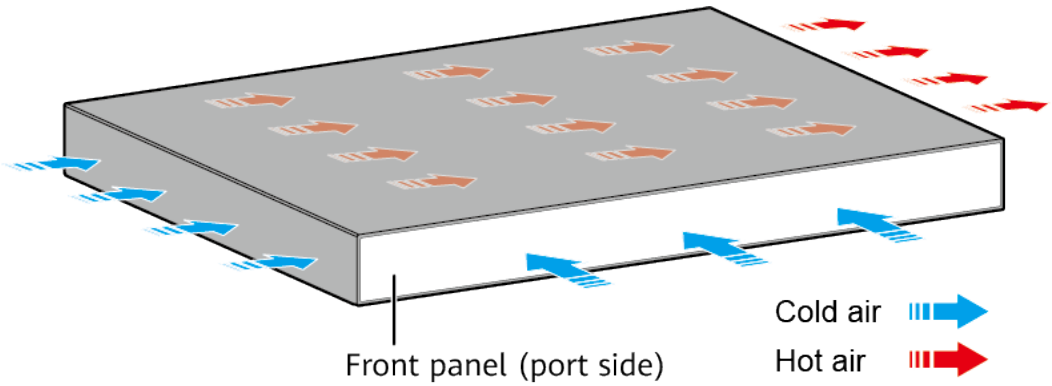
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-425 Technical specifications of the S5735E-L24T4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.34 kg (5.16 lb)
Weight with packaging [kg(lb)]	3.46 kg (7.63 lb)
Typical power consumption [W]	28.48 W
Typical heat dissipation [BTU/hour]	97.18 BTU/hour
Maximum power consumption [W]	37.03 W
Maximum heat dissipation [BTU/hour]	126.36 BTU/hour
Static power consumption [W]	17.53 W
MTBF [years]	70.00 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)

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Item	Specification
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±1 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.9.8 S5735E-L24P4XE-A-V2

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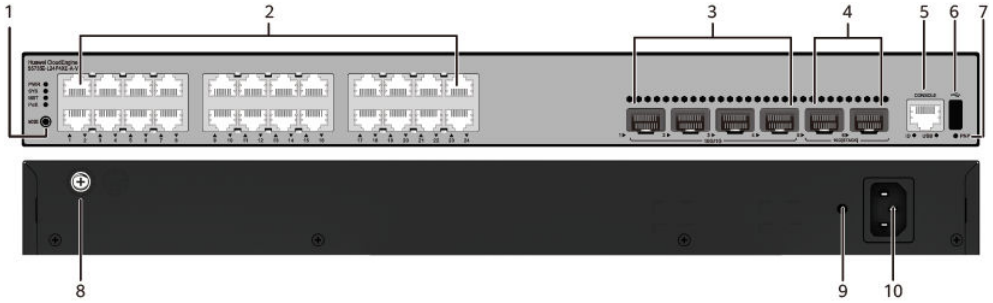
Overview

Table 4-426 Basic information about the S5735E-L24P4XE-A-V2

Item	Details
Description	S5735E-L24P4XE-A-V2 (24*10/100/1000BASE-T ports(PoE+), 4*10GE SFP+ ports, 2*12GE stack ports, 400W PoE, AC power)
Part Number	98012883
Model	S5735E-L24P4XE-A-V2
First supported version	V600R024C10

Components

Figure 4-154 S5735E-L24P4XE-A-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.

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9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-427 Ports on the S5735E-L24P4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • 0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-155 Indicators on the Switch

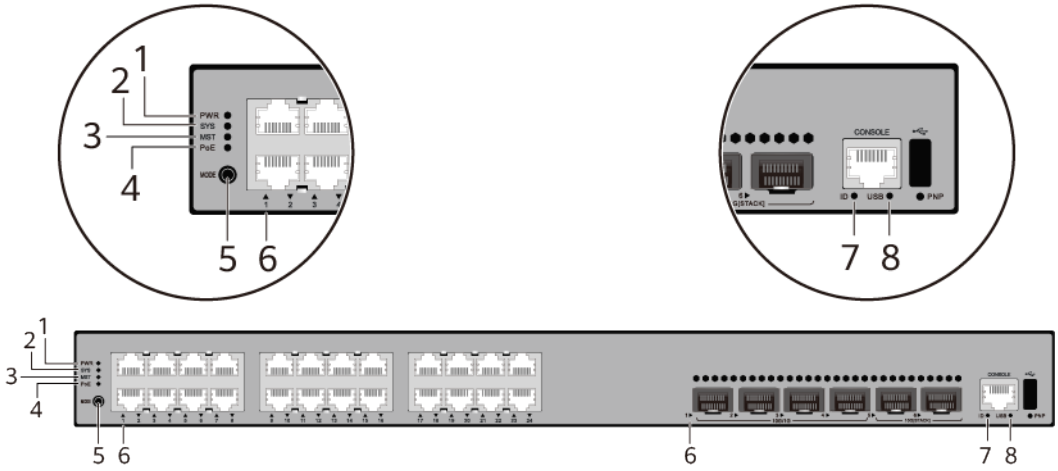

Table 4-428 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.

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No.	Indicator	Name	Color	Status	Description
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-429**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-429 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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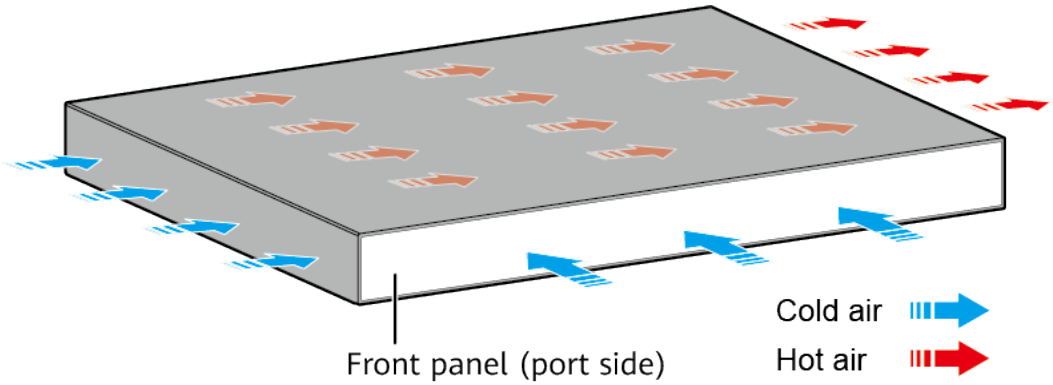

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-430 Technical specifications of the S5735E-L24P4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.94 kg (6.48 lb)
Weight with packaging [kg(lb)]	3.81 kg (8.4 lb)
Typical power consumption [W]	39.84 W
Typical heat dissipation [BTU/hour]	135.94 BTU/hour
Maximum power consumption [W]	• Without PoE: 55.40 W • Full PoE load: 496.08 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 189.03 • Full PoE load: 1692.67

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Item	Specification
Static power consumption [W]	29.17 W
MTBF [years]	60.40 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB

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Item	Specification
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.9.9 S5735E-L48T4XE-A-V2

Overview

Table 4-431 Basic information about the S5735E-L48T4XE-A-V2

Item	Details
Description	S5735E-L48T4XE-A-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, AC power)
Part Number	98012890
Model	S5735E-L48T4XE-A-V2
First supported version	V600R024C10

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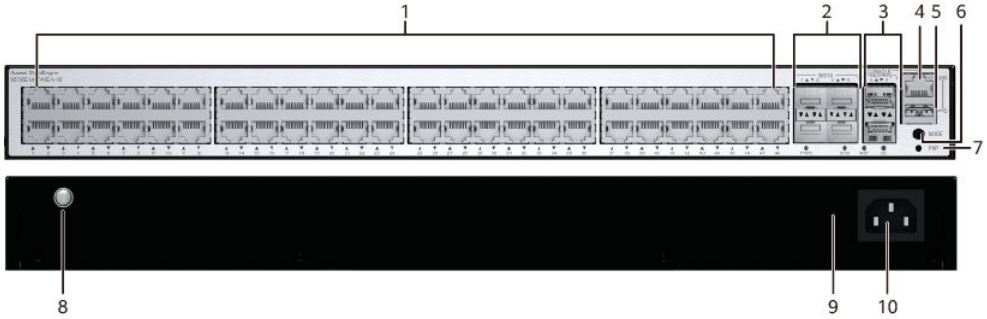
Components

Figure 4-156 S5735E-L48T4XE-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

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Ports

Table 4-432 Ports on the S5735E-L48T4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

The S5735E-L48T4XE-A-V2 has similar indicators to those on the S5735E-L48LP4XE-A-V2 except that the S5735E-L48T4XE-A-V2 does not have a PoE mode indicator. For details, see the S5735E-L48LP4XE-A-V2.

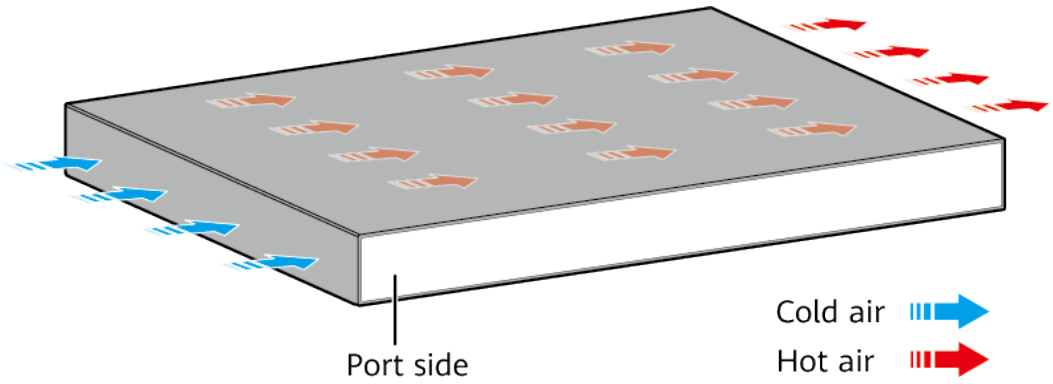
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-433 Technical specifications of the S5735E-L48T4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.74 kg (6.04 lb)
Weight with packaging [kg(lb)]	3.62 kg (7.98 lb)
Typical power consumption [W]	41.06 W
Typical heat dissipation [BTU/hour]	140.1 BTU/hour
Maximum power consumption [W]	49.48 W
Maximum heat dissipation [BTU/hour]	168.83 BTU/hour
Static power consumption [W]	19.68 W
MTBF [years]	40.01 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	46.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	34.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used. The device does not support dying gasp when the ambient temperature is higher than 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	1.6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.9.10 S5735E-L48LP4XE-A-V2

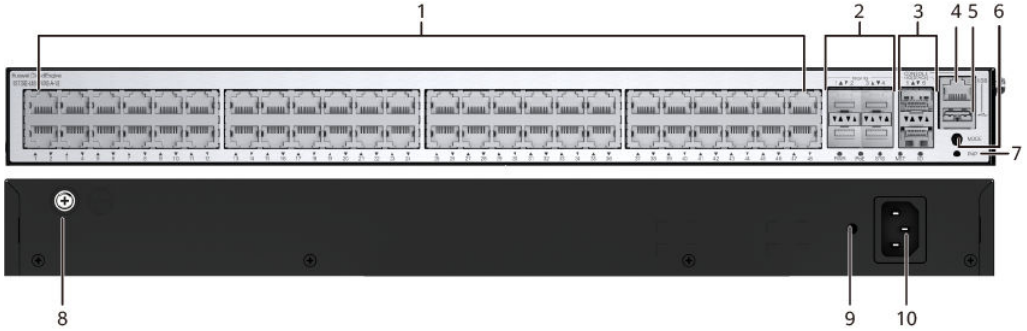
Overview

Table 4-434 Basic information about the S5735E-L48LP4XE-A-V2

Item	Details
Description	S5735E-L48LP4XE-A-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, 380W PoE+, built-in AC power, Specially protected models)
Part Number	98012892
Model	S5735E-L48LP4XE-A-V2
First supported version	V600R024C10

Components

Figure 4-157 S5735E-L48LP4XE-A-V2 appearance



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1	Forty-eight 10/100/1000BASE-T PoE + ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-435 Ports on the S5735E-L48LP4XE-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • 0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-158 Indicators on the Switch

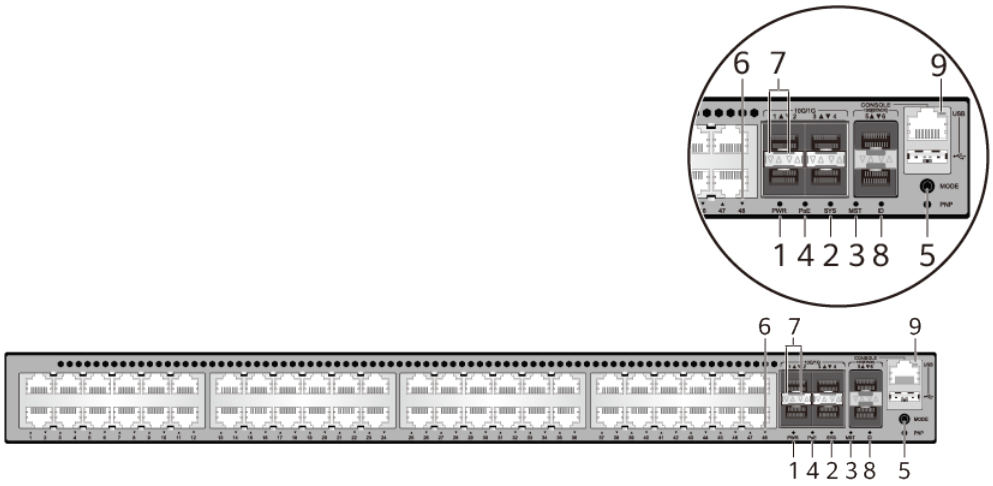

Table 4-436 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.

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No.	Indicator	Name	Color	Status	Description
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Electrical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-437** and **Table 4-438**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

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Table 4-437 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 10M/100M/1000M/2.5GE BASE-T ports: The port is operating at 10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s.

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Display Mode	Color	Status	Description
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 10M/100M/1000M/2.5GE BASE-T ports: The port is operating at 2.5 Gbit/s.

Table 4-438 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 380 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 12 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side, and exhausts from the right side.

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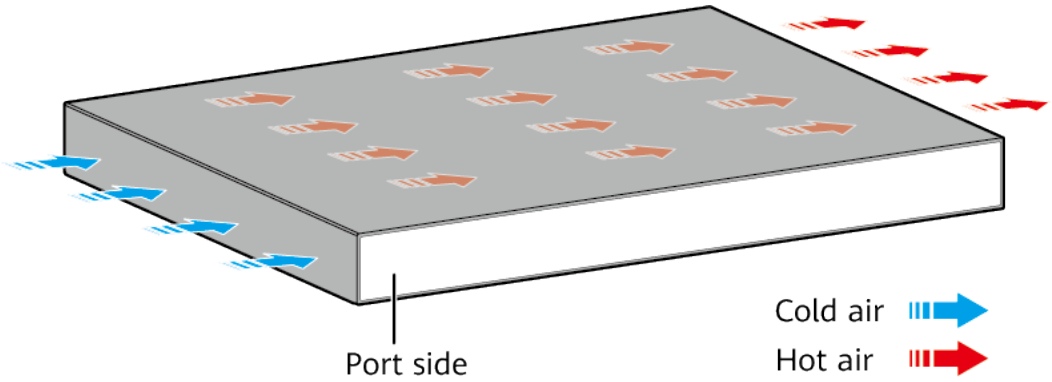
When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-439 Technical specifications of the S5735E-L48LP4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.25 kg (7.16 lb)
Weight with packaging [kg(lb)]	4.30 kg (9.48 lb)
Typical power consumption [W]	49.81 W
Typical heat dissipation [BTU/hour]	169.96 BTU/hour
Maximum power consumption [W]	• Without PoE: 65.70 W • Full PoE load: 464.80 W (PoE: 380 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• Without PoE: 224.17 • Full PoE load: 1585.94
Static power consumption [W]	32.09 W
MTBF [years]	48.01 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.9.11 S5735E-L24ST4XE-A-V2

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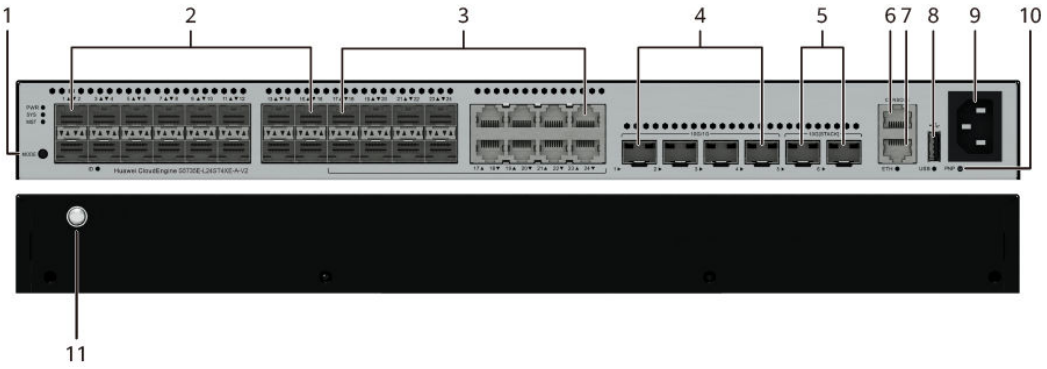
Overview

Table 4-440 Basic information about the S5735E-L24ST4XE-A-V2

Item	Details
Description	S5735E-L24ST4XE-A-V2 (24*GE SFP ports, 8 of which are dual-purpose 10/100/1000 or SFP, 4*10GE SFP+ ports, 2*12GE stack ports, built-in AC power, front access)
Part Number	98012863
Model	S5735E-L24ST4XE-A-V2
First supported version	V600R024C10

Components

Figure 4-159 S5735E-L24ST4XE-A-V2 appearance



1	One MODE button	2	Sixteen 100/1000BASE-X ports
3	Eight Combo ports (100/1000BASE-X optical ports and 10/100/1000BASE-T electrical ports)	4	Four 10GE SFP+ ports
5	Two stack ports	6	One console port
7	One ETH management port	8	One USB port

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9	AC socket **NOTE** It is used with an **AC power cable**.	10	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
11	Ground screw **NOTE** It is used with a **ground cable**.	-	-

Ports

Table 4-441 Ports on the S5735E-L24ST4XE-A-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
Combo port (10/100/1000BASE-T + 100/1000BASE-X)	RJ45/SFP	A combo port refers to a pair of ports consisting of an optical Ethernet port and an electrical Ethernet port on the panel. Each combo port matches only one internal forwarding port. A combo port can be configured as an electrical port or an optical port, but only one port can be active at a time. When one port is active, the other port is shut down.	• **Ethernet cable** • **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-160 Indicators on the Switch

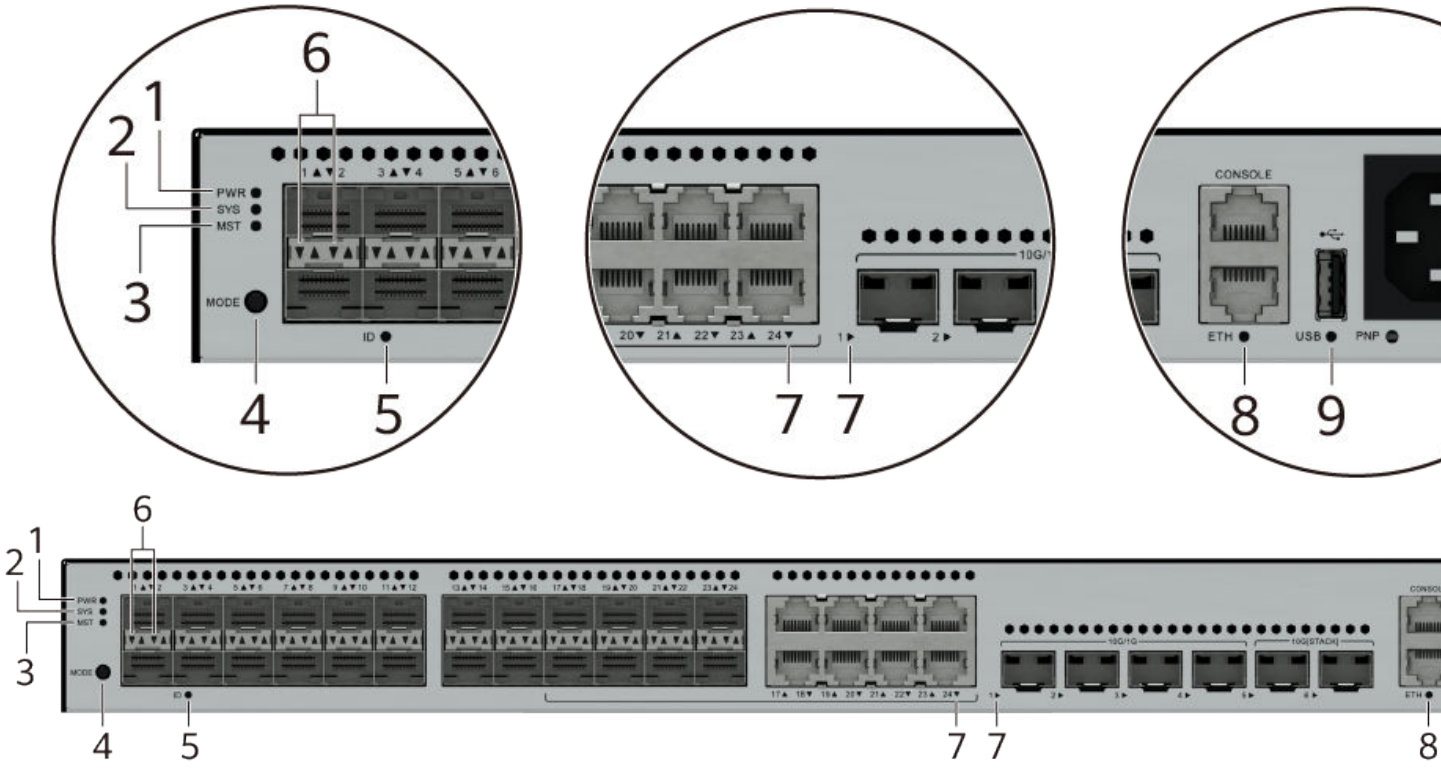

Table 4-442 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.

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No.	Indicator	Name	Color	Status	Description
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.

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No.	Indicator	Name	Color	Status	Description
4	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
5	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
6	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-443** and **Table 4-444**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Electrical or optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ETH	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

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No.	Indicator	Name	Color	Status	Description
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-443 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

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Table 4-444 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
MST stack mode (LINK indicator)	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
MST stack mode (ACT indicator)	-	Off	Port indicators do not show the stack ID of the switch.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	100/1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

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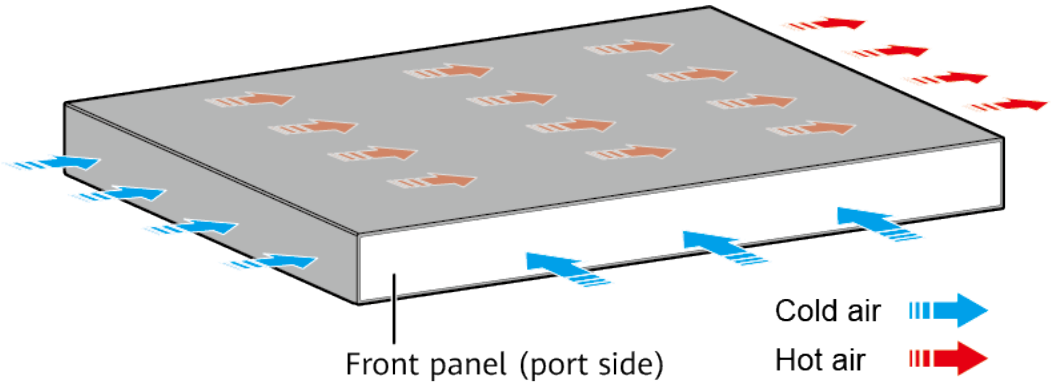
Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-445 Technical specifications of the S5735E-L24ST4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.9 kg (6.39 lb)
Weight with packaging [kg(lb)]	3.55 kg (7.83 lb)
Typical power consumption [W]	32.6 W
Typical heat dissipation [BTU/hour]	111.23 BTU/hour

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Item	Specification
Maximum power consumption [W]	41.7 W
Maximum heat dissipation [BTU/hour]	142.28 BTU/hour
Static power consumption [W]	17.57 W
MTBF [years]	47.39 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	38.1 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	26.1 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 110 V DC to 250 V DC
Input voltage range [V]	• AC input: 90 V AC to 264 V AC; 47 Hz to 63 Hz • High-voltage DC input: 88 V DC to 300 V DC

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Item	Specification
Maximum input current [A]	2 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.9.12 S5735E-L48S4XE-A-V2

Overview

Table 4-446 Basic information about the S5735E-L48S4XE-A-V2

Item	Details
Description	S5735E-L48S4XE-A-V2 (48*GE SFP ports, 4*10GE SFP+ ports, 2*12GE stack ports, built-in AC power)
Part Number	98012864
Model	S5735E-L48S4XE-A-V2

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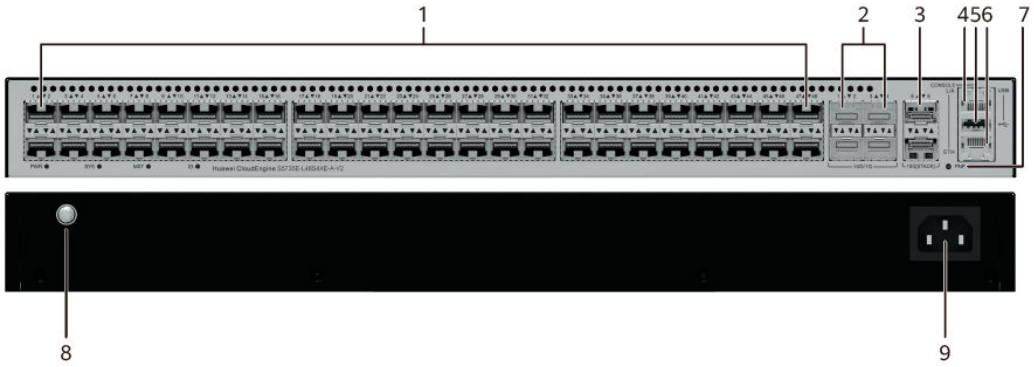
Item	Details
First supported version	V600R024C10
Remarks	Copper modules can be installed on a maximum of 24 1000BASE-X optical ports.

Components

Figure 4-161 S5735E-L48S4XE-A-V2 appearance



1	Forty-eight 100/1000BASE-X ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One ETH management port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	AC socket **NOTE** It is used with an **AC power cable**.	-	-

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Ports

Table 4-447 Ports on the S5735E-L48S4XE-A-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-162 Indicators on the Switch

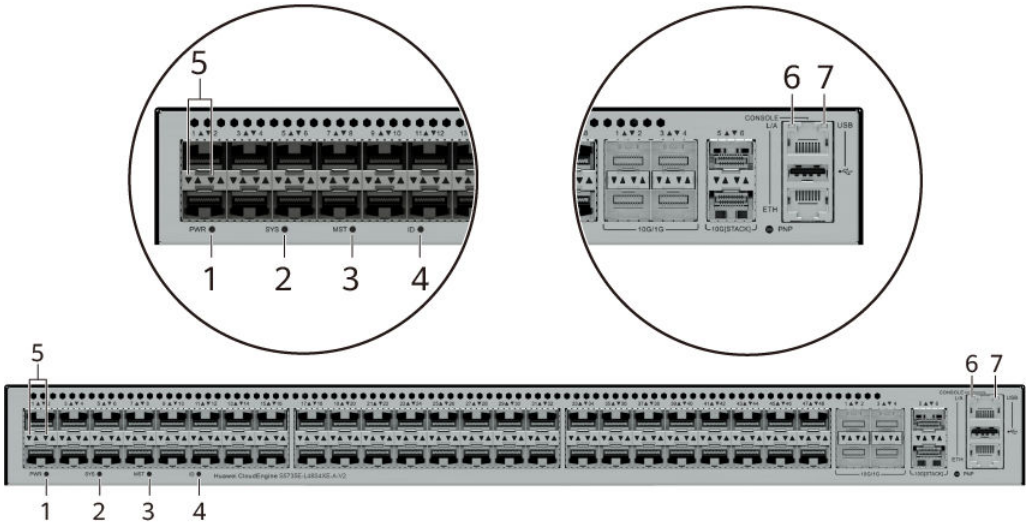

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Table 4-448 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
4	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
5	-	Service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-449**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.
7	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

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Table 4-449 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s. • 100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 100/1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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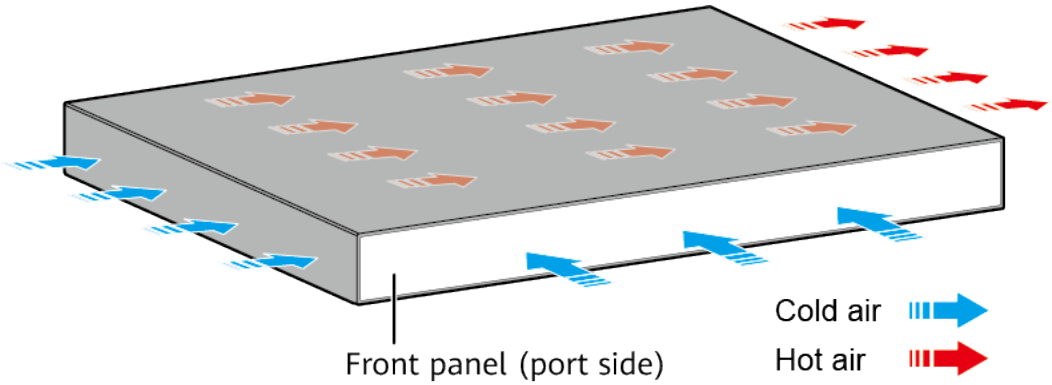

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-450 Technical specifications of the S5735E-L48S4XE-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.2 kg (7.1 lb)
Weight with packaging [kg(lb)]	3.82 kg (8.42 lb)
Typical power consumption [W]	66.6 W
Typical heat dissipation [BTU/hour]	227.25 BTU/hour
Maximum power consumption [W]	85.5 W
Maximum heat dissipation [BTU/hour]	291.73 BTU/hour
Static power consumption [W]	32 W
MTBF [years]	46.98 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	45.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	33.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.10 S5735R-L-V2

4.10.1 S5735R-L8T4S-A-V2

Overview

Table 4-451 Basic information about the S5735R-L8T4S-A-V2

Item	Details
Description	S5735R-L8T4S-A-V2 (8*10/100/1000BASE-T ports, 4*GE SFP ports, built-in AC power)
Part Number	98012667
Model	S5735R-L8T4S-A-V2
First supported version	V600R024C00

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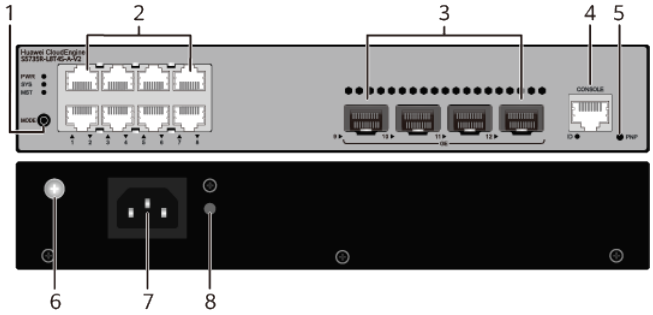
Components

Figure 4-163 S5735R-L8T4S-A-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T ports
3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	AC socket **NOTE** It is used with an **AC power cable**.	8	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.

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Ports

Table 4-452 Ports on the S5735R-L8T4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• GE eSFP optical modules • GE-CWDM eSFP optical modules • GE-DWDM eSFP optical modules • GE SFP copper module • 10GE SFP+ optical modules (only used for stack connection) • 10GE-CWDM SFP+ optical modules (only used for stack connection) • 10GE-DWDM SFP+ optical modules (only used for stack connection) • 1 m and 3 m SFP+ high-speed copper cables • 10 m SFP+ AOC cables • 0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Indicators and Buttons

The S5735R-L8T4S-A-V2 has similar indicators to those on the S5735R-L8P4X-QA-V2 except that the S5735R-L8T4S-A-V2 does not have a PoE mode indicator. For details, see the S5735R-L8P4X-QA-V2.

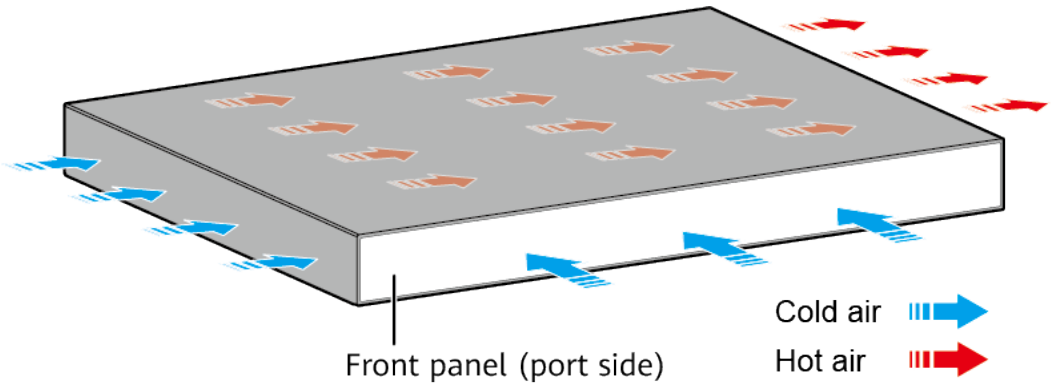
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-453 Technical specifications of the S5735R-L8T4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 180.0 mm (1.72 in. x 9.84 in. x 7.09 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 187.0 mm (1.72 in. x 9.84 in. x 7.36 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 370.0 mm x 380.0 mm (3.54 in. x 14.57 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.41 kg (3.11 lb)
Weight with packaging [kg(lb)]	2.22 kg (4.89 lb)
Typical power consumption [W]	15.95 W
Typical heat dissipation [BTU/hour]	54.42 BTU/hour
Maximum power consumption [W]	21.52 W
Maximum heat dissipation [BTU/hour]	73.43 BTU/hour
Static power consumption [W]	10.52 W
MTBF [years]	75.32 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	44.5 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	32.5 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)

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Item	Specification
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.2 S5735R-L8T4X-QA-V2

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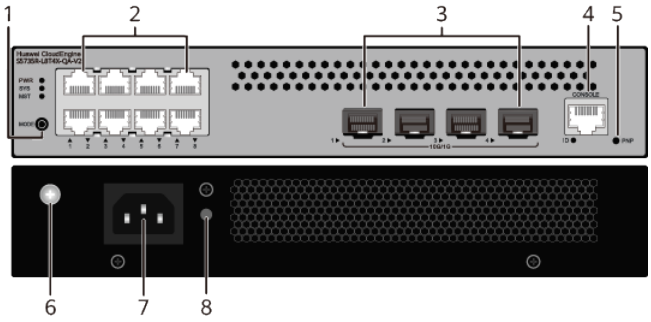
Overview

Table 4-454 Basic information about the S5735R-L8T4X-QA-V2

Item	Details
Description	S5735R-L8T4X-QA-V2 (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, built-in AC power, Fanless)
Part Number	98012668
Model	S5735R-L8T4X-QA-V2
First supported version	V600R024C00

Components

Figure 4-164 S5735R-L8T4X-QA-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.

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7	AC socket **NOTE** It is used with an **AC power cable**.	8	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.

Ports

Table 4-455 Ports on the S5735R-L8T4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

Indicators and Buttons

The S5735R-L8T4X-QA-V2 has similar indicators to those on the S5735R-L8P4X-QA-V2 except that the S5735R-L8T4X-QA-V2 does not have a PoE mode indicator. For details, see the S5735R-L8P4X-QA-V2.

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Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-456 Technical specifications of the S5735R-L8T4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 250.0 mm x 180.0 mm (1.72 in. x 9.84 in. x 7.1 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 250.0 mm x 187.0 mm (1.72 in. x 9.84 in. x 7.36 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 370.0 mm x 380.0 mm (3.54 in. x 14.57 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.40 kg (3.09 lb)
Weight with packaging [kg(lb)]	2.21 kg (4.87 lb)
Typical power consumption [W]	16.2 W
Typical heat dissipation [BTU/hour]	55.28 BTU/hour
Maximum power consumption [W]	16.97 W
Maximum heat dissipation [BTU/hour]	57.9 BTU/hour
Static power consumption [W]	10.05 W
MTBF [years]	76.15 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0

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Item	Specification
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None

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Item	Specification
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.3 S5735R-L8P4S-A-V2

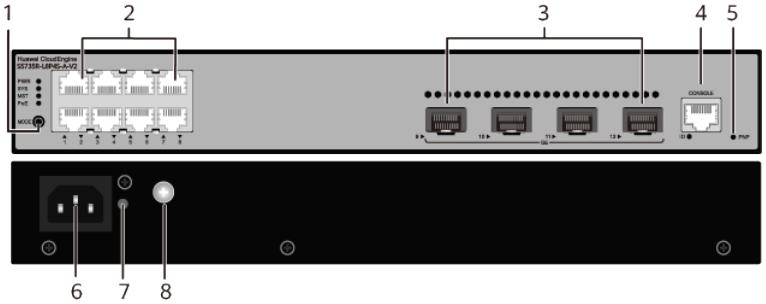
Overview

Table 4-457 Basic information about the S5735R-L8P4S-A-V2

Item	Details
Description	S5735R-L8P4S-A-V2 (8*10/100/1000BASE-T ports(PoE+), 4*GE SFP ports, 125 W PoE, built-in AC power)
Part Number	98012669
Model	S5735R-L8P4S-A-V2
First supported version	V600R024C00

Components

Figure 4-165 S5735R-L8P4S-A-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T PoE+ ports

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3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	AC socket **NOTE** It is used with an **AC power cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	Ground screw **NOTE** It is used with a **ground cable**.

Ports

Table 4-458 Ports on the S5735R-L8P4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• GE eSFP optical modules • GE-CWDM eSFP optical modules • GE-DWDM eSFP optical modules • GE SFP copper module • 10GE SFP+ optical modules (only used for stack connection) • 10GE-CWDM SFP+ optical modules (only used for stack connection) • 10GE-DWDM SFP+ optical modules (only used for stack connection) • 1 m and 3 m SFP+ high-speed copper cables • 10 m SFP+ AOC cables • 0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Indicators and Buttons

The S5735R-L8P4S-A-V2 has similar indicators to those on the S5735R-L8P4X-QA-V2. For details, see the S5735R-L8P4X-QA-V2.

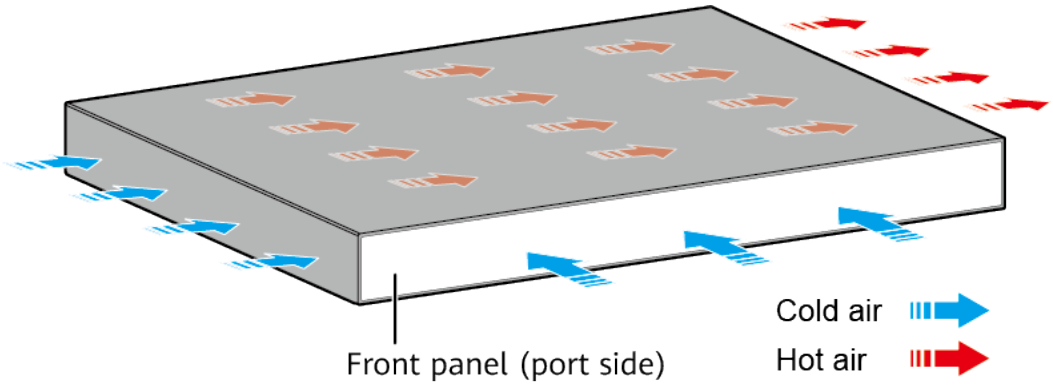
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-459 Technical specifications of the S5735R-L8P4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 320.0 mm x 210.0 mm (1.72 in. x 12.6 in. x 8.27 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 320.0 mm x 217.0 mm (1.72 in. x 12.6 in. x 8.54 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 465.0 mm x 380.0 mm (3.54 in. x 18.31 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.23 kg (4.92 lb)
Weight with packaging [kg(lb)]	3.05 kg (6.72 lb)
Typical power consumption [W]	19.99 W
Typical heat dissipation [BTU/hour]	68.21 BTU/hour
Maximum power consumption [W]	• Without PoE: 25.09 W • Full PoE load: 166.65 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 85.61 • Full PoE load: 568.63
Static power consumption [W]	17.19 W
MTBF [years]	69.71 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)

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Item	Specification
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.4 S5735R-L8P4X-QA-V2

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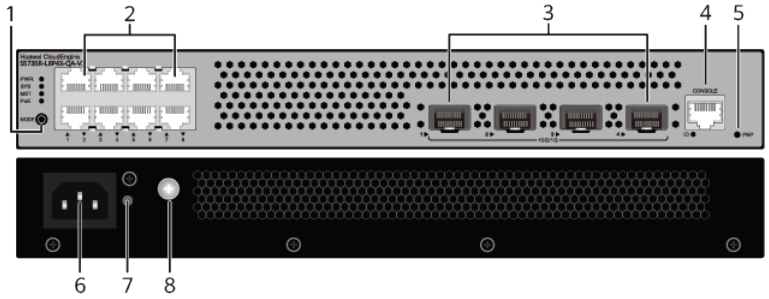
Overview

Table 4-460 Basic information about the S5735R-L8P4X-QA-V2

Item	Details
Description	S5735R-L8P4X-QA-V2 (8*10/100/1000BASE-T ports(PoE+), 4*10GE SFP+ ports, 125 W PoE, built-in AC power, Fanless)
Part Number	98012670
Model	S5735R-L8P4X-QA-V2
First supported version	V600R024C00

Components

Figure 4-166 S5735R-L8P4X-QA-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	AC socket **NOTE** It is used with an **AC power cable**.

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7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	Ground screw **NOTE** It is used with a **ground cable**.

Ports

Table 4-461 Ports on the S5735R-L8P4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Indicators and Buttons

Figure 4-167 Indicators on the Switch

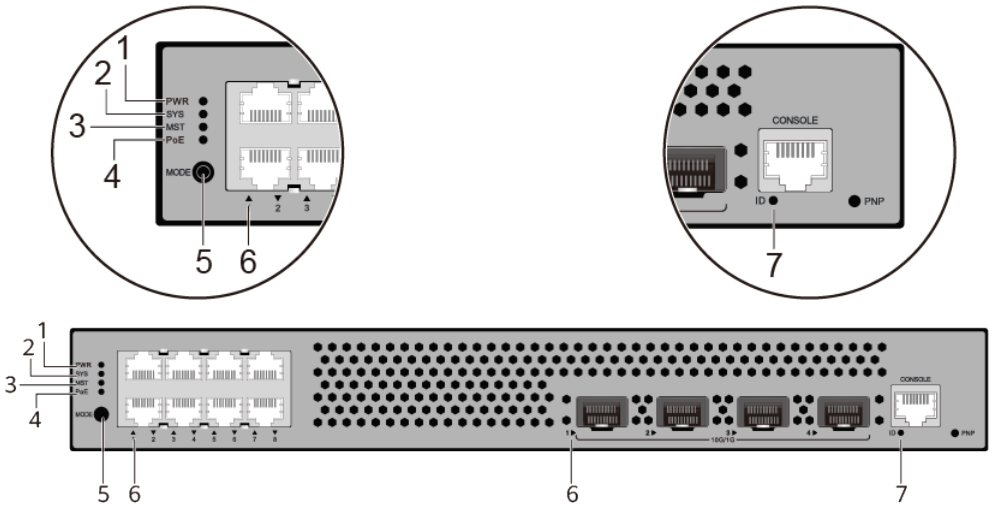

Table 4-462 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.

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No.	Indicator	Name	Color	Status	Description
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-463**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).

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No.	Indicator	Name	Color	Status	Description
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

Table 4-463 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

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Display Mode	Color	Status	Description
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-464 Technical specifications of the S5735R-L8P4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 320.0 mm x 210.0 mm (1.72 in. x 12.6 in. x 8.27 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 320.0 mm x 217.0 mm (1.72 in. x 12.6 in. x 8.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 465.0 mm x 380.0 mm (3.54 in. x 18.31 in. x 14.96 in.)
Chassis height [U]	1 U

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Item	Specification
Chassis material	Metal
Weight without packaging [kg(lb)]	2.24 kg (4.94 lb)
Weight with packaging [kg(lb)]	3.06 kg (6.75 lb)
Typical power consumption [W]	21.16 W
Typical heat dissipation [BTU/hour]	72.2 BTU/hour
Maximum power consumption [W]	• Without PoE: 22.21 W • Full PoE load: 152.55 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 75.78 • Full PoE load: 520.52
Static power consumption [W]	15.24 W
MTBF [years]	70.41 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)

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Item	Specification
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.5 S5735R-L16T4S-A-V2

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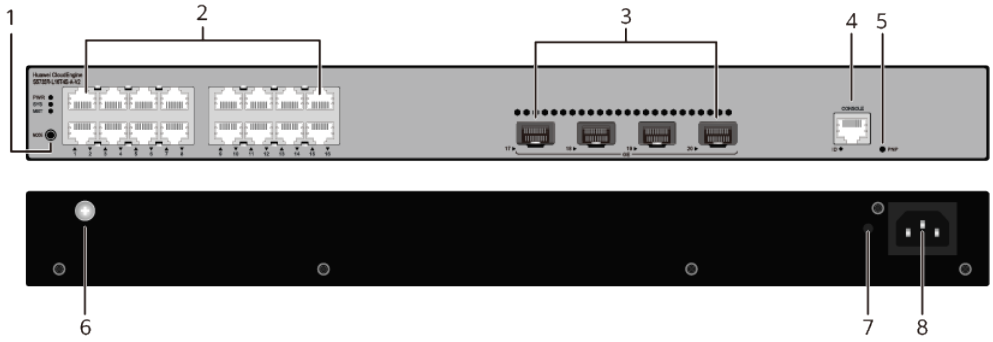
Overview

Table 4-465 Basic information about the S5735R-L16T4S-A-V2

Item	Details
Description	S5735R-L16T4S-A-V2 (16*10/100/1000BASE-T ports, 4*GE SFP ports, built-in AC power)
Part Number	98012671
Model	S5735R-L16T4S-A-V2
First supported version	V600R024C00

Components

Figure 4-168 S5735R-L16T4S-A-V2 appearance



1	One MODE button	2	Sixteen 10/100/1000BASE-T ports
3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.

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7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-466 Ports on the S5735R-L16T4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• GE eSFP optical modules • GE-CWDM eSFP optical modules • GE-DWDM eSFP optical modules • GE SFP copper module • 10GE SFP+ optical modules (only used for stack connection) • 10GE-CWDM SFP+ optical modules (only used for stack connection) • 10GE-DWDM SFP+ optical modules (only used for stack connection) • 1 m and 3 m SFP+ high-speed copper cables • 10 m SFP+ AOC cables • 0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Indicators and Buttons

The S5735R-L16T4S-A-V2 has similar indicators to those on the S5735R-L8P4X-QA-V2 except that the S5735R-L16T4S-A-V2 does not have a PoE mode indicator. For details, see the S5735R-L8P4X-QA-V2.

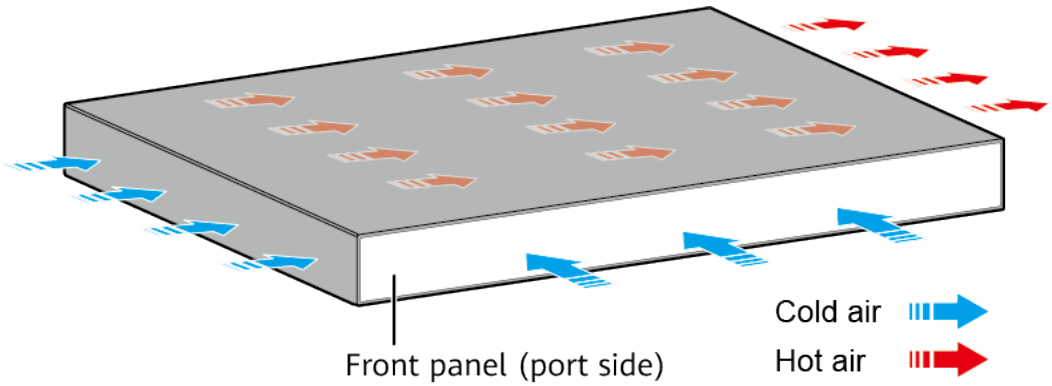
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-467 Technical specifications of the S5735R-L16T4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.22 kg (4.89 lb)
Weight with packaging [kg(lb)]	3.34 kg (7.36 lb)
Typical power consumption [W]	21.17 W
Typical heat dissipation [BTU/hour]	72.23 BTU/hour
Maximum power consumption [W]	28.84 W
Maximum heat dissipation [BTU/hour]	98.4 BTU/hour
Static power consumption [W]	13.8 W
MTBF [years]	72.43 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)

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Item	Specification
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.6 S5735R-L16T4X-QA-V2

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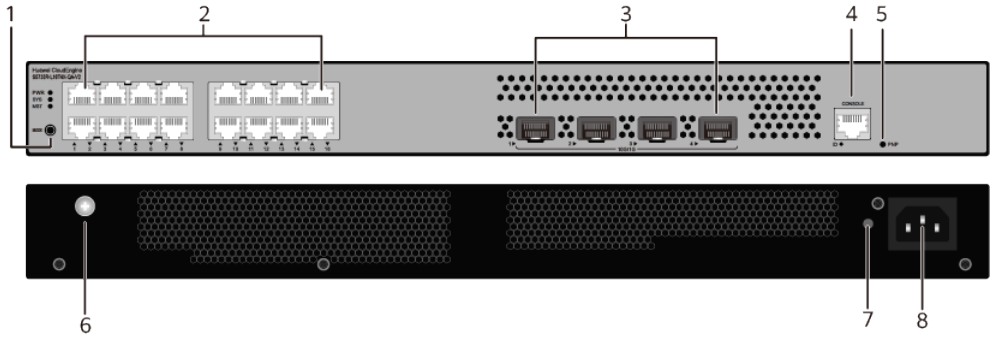
Overview

Table 4-468 Basic information about the S5735R-L16T4X-QA-V2

Item	Details
Description	S5735R-L16T4X-QA-V2 (16*10/100/1000BASE-T ports, 4*10GE SFP+ ports, built-in AC power, Fanless)
Part Number	98012672
Model	S5735R-L16T4X-QA-V2
First supported version	V600R024C00

Components

Figure 4-169 S5735R-L16T4X-QA-V2 appearance



1	One MODE button	2	Sixteen 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.

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7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-469 Ports on the S5735R-L16T4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

Indicators and Buttons

The S5735R-L16T4X-QA-V2 has similar indicators to those on the S5735R-L8P4X-QA-V2 except that the S5735R-L16T4X-QA-V2 does not have a PoE mode indicator. For details, see the S5735R-L8P4X-QA-V2.

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Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-470 Technical specifications of the S5735R-L16T4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.34 kg (5.16 lb)
Weight with packaging [kg(lb)]	3.46 kg (7.63 lb)
Typical power consumption [W]	21.42 W
Typical heat dissipation [BTU/hour]	73.24 BTU/hour
Maximum power consumption [W]	24.29 W
Maximum heat dissipation [BTU/hour]	82.88 BTU/hour
Static power consumption [W]	13.33 W
MTBF [years]	73.24 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0

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Item	Specification
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None

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Item	Specification
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.7 S5735R-L16LP2S-QA-V2

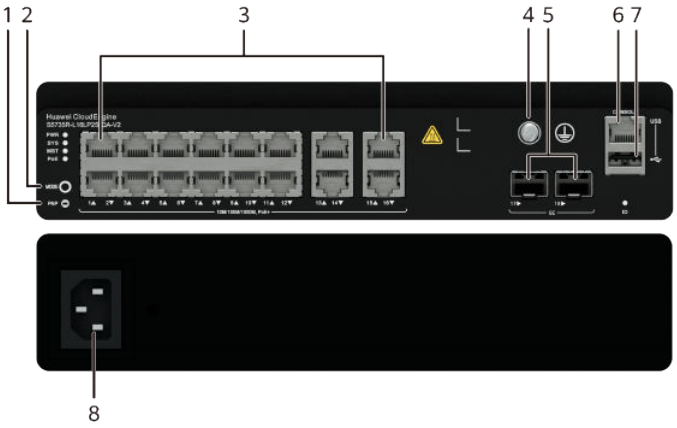
Overview

Table 4-471 Basic information about the S5735R-L16LP2S-QA-V2

Item	Details
Description	S5735R-L16LP2S-QA-V2 (16*10/100/1000BASE-T ports(PoE+), 2*GE SFP ports, 125 W PoE, built-in AC power, Fanless)
Part Number	98012673
Model	S5735R-L16LP2S-QA-V2
First supported version	V600R024C00

Components

Figure 4-170 S5735R-L16LP2S-QA-V2 appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Sixteen 10/100/1000BASE-T PoE+ ports	4	Ground screw **NOTE** It is used with a **ground cable**.
5	Two 1000BASE-X ports	6	One console port
7	One USB port	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-472 Ports on the S5735R-L16LP2S-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• GE eSFP optical modules • GE-CWDM eSFP optical modules • GE SFP copper modules • 10GE SFP+ optical modules (only used for stack connection, and the maximum transmission distance cannot exceed 10 km) • 1 m and 3 m SFP+ high-speed copper cables (only used for stack connection) • 10 m SFP+ AOC cables (only used for stack connection) • 0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735R-L16LP2S-QA-V2 has similar indicators to those on the S5735R-L16LP2UM2X-QA-V2. For details, see the S5735R-L16LP2UM2X-QA-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-473 Technical specifications of the S5735R-L16LP2S-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 54.0 mm x 250.0 mm x 220.0 mm (2.13 in. x 9.84 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 54.0 mm x 250.0 mm x 225.0 mm (2.13 in. x 9.84 in. x 8.86 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	110 mm x 300 mm x 355 mm (4.33 in. x 11.81 in. x 13.98 in.)
Chassis height [U]	1.2 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.75 kg (6.06 lb)
Weight with packaging [kg(lb)]	3.35 kg (7.39 lb)
Typical power consumption [W]	20.7 W
Typical heat dissipation [BTU/hour]	70.63 BTU/hour
Maximum power consumption [W]	• Without PoE: 25.41 W • Full PoE load: 162.82 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 86.70 • Full PoE load: 555.56
Static power consumption [W]	20.7 W
MTBF [years]	63.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90–290 V AC; 45–65 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.10.8 S5735R-L16LP2X-QA-V2

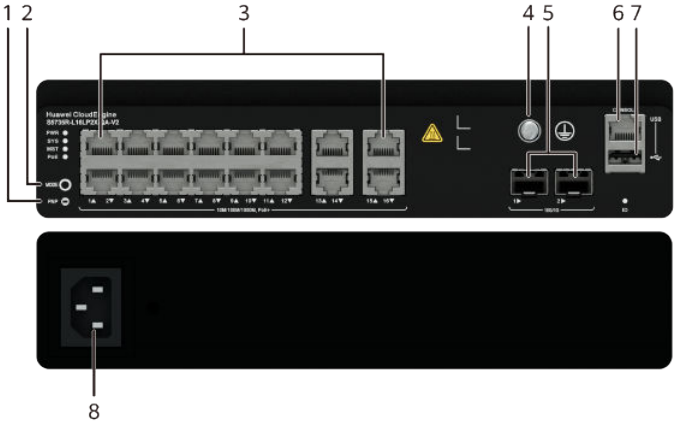
Overview

Table 4-474 Basic information about the S5735R-L16LP2X-QA-V2

Item	Details
Description	S5735R-L16LP2X-QA-V2 (16*10/100/1000BASE-T ports(PoE+), 2*10GE SFP+ ports, 125 W PoE, built-in AC power, Fanless)
Part Number	98012674
Model	S5735R-L16LP2X-QA-V2
First supported version	V600R024C00

Components

Figure 4-171 S5735R-L16LP2X-QA-V2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Sixteen 10/100/1000BASE-T PoE+ ports	4	Ground screw **NOTE** It is used with a **ground cable**.
5	Two 10GE SFP+ ports	6	One console port
7	One USB port	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-475 Ports on the S5735R-L16LP2X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735R-L16LP2X-QA-V2 has similar indicators to those on the S5735R-L16LP2UM2X-QA-V2. For details, see the S5735R-L16LP2UM2X-QA-V2.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-476 Technical specifications of the S5735R-L16LP2X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 54.0 mm x 250.0 mm x 220.0 mm (2.13 in. x 9.84 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 54.0 mm x 250.0 mm x 225.0 mm (2.13 in. x 9.84 in. x 8.86 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	110 mm x 300 mm x 355 mm (4.33 in. x 11.81 in. x 13.98 in.)
Chassis height [U]	1.2 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.75 kg (6.06 lb)
Weight with packaging [kg(lb)]	3.35 kg (7.39 lb)
Typical power consumption [W]	20.7 W
Typical heat dissipation [BTU/hour]	70.63 BTU/hour
Maximum power consumption [W]	• Without PoE: 25.41 W • Full PoE load: 162.82 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 86.70 • Full PoE load: 555.56
Static power consumption [W]	20.7 W
MTBF [years]	63.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90–290 V AC; 45–65 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.10.9 S5735R-L16LP2UM2X-QA-V2

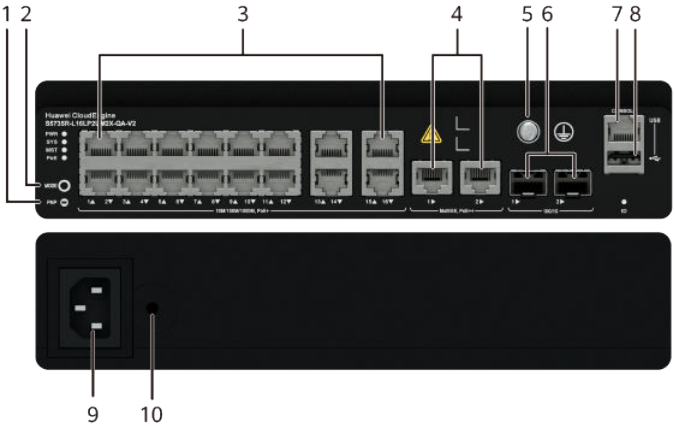
Overview

Table 4-477 Basic information about the S5735R-L16LP2UM2X-QA-V2

Item	Details
Description	S5735R-L16LP2UM2X-QA-V2 (16*10/100/1000BASE-T ports(PoE+), 2*100M/1G/2.5G/5G/10G Ethernet ports(PoE++), 2*10GE SFP+ ports, 125 W PoE, built-in AC power, Fanless)
Part Number	98012675
Model	S5735R-L16LP2UM2X-QA-V2
First supported version	V600R024C00

Components

Figure 4-172 S5735R-L16LP2UM2X-QA-V2 appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Sixteen 10/100/1000BASE-T PoE+ ports	4	Two 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)
5	Ground screw **NOTE** It is used with a **ground cable**.	6	Two 10GE SFP+ ports
7	One console port	8	One USB port
9	AC socket **NOTE** It is used with an **AC power cable**.	-	-

Ports

Table 4-478 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

Table 4-479 Ports on the S5735R-L16LP2UM2X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s, and must use an Ethernet cable.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-173 Indicators on the Switch

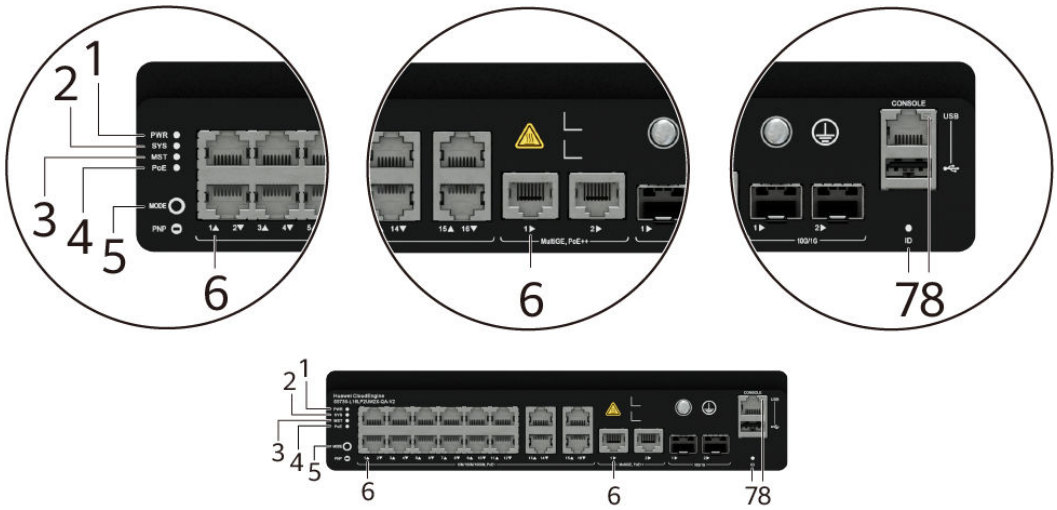

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Table 4-480 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-481**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-481 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 100/1000BASE-X port: The port is operating at 100 Mbit/s. • 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, or 5 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 100/1000BASE-X port: The port is operating at 1000 Mbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s. • 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 10 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

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Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af, 4 ports in compliance with 802.3at, 2 ports in compliance with 802.3bt (60 W per port), or 1 port in compliance with 802.3bt (90 W per port).

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-482 Technical specifications of the S5735R-L16LP2UM2X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 54.0 mm x 250.0 mm x 220.0 mm (2.13 in. x 9.84 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 54.0 mm x 250.0 mm x 225.0 mm (2.13 in. x 9.84 in. x 8.86 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	110 mm x 300 mm x 355 mm (4.33 in. x 11.81 in. x 13.98 in.)
Chassis height [U]	1.2 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.81 kg (6.2 lb)
Weight with packaging [kg(lb)]	3.4 kg (7.5 lb)
Typical power consumption [W]	24.37 W
Typical heat dissipation [BTU/hour]	83.15 BTU/hour
Maximum power consumption [W]	• Without PoE: 29.20 W • Full PoE load: 166.40 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 99.63 • Full PoE load: 567.77
Static power consumption [W]	24.37 W
MTBF [years]	59.42 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90–290 V AC; 45–65 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.10 S5735R-L24T4S-A-V2

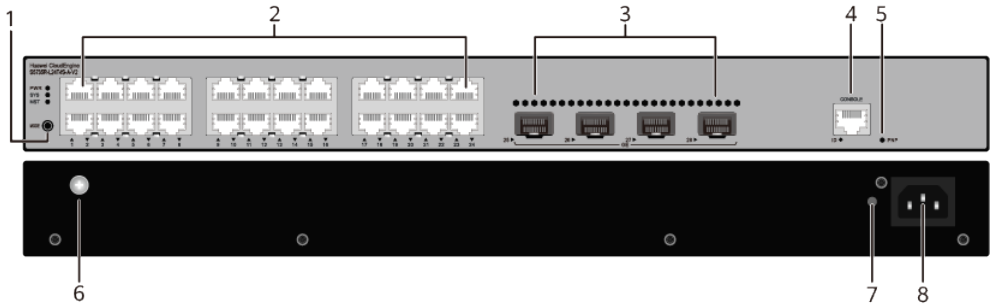
Overview

Table 4-483 Basic information about the S5735R-L24T4S-A-V2

Item	Details
Description	S5735R-L24T4S-A-V2 (24*10/100/1000BASE-T ports, 4*GE SFP ports, built-in AC power)
Part Number	98012676
Model	S5735R-L24T4S-A-V2
First supported version	V600R024C00

Components

Figure 4-174 S5735R-L24T4S-A-V2 appearance



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1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-484 Ports on the S5735R-L24T4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Indicators and Buttons

The S5735R-L24T4S-A-V2 has similar indicators to those on the S5735R-L8P4X-QA-V2 except that the S5735R-L24T4S-A-V2 does not have a PoE mode indicator. For details, see the S5735R-L8P4X-QA-V2.

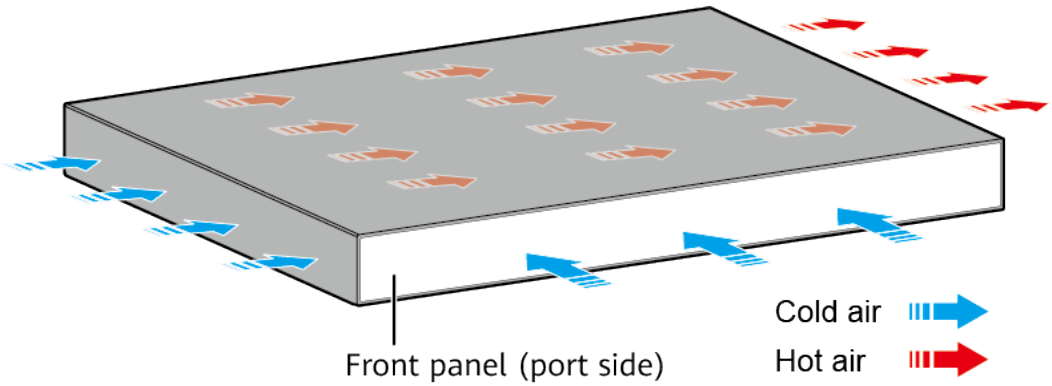
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-485 Technical specifications of the S5735R-L24T4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.32 kg (5.11 lb)
Weight with packaging [kg(lb)]	3.44 kg (7.58 lb)
Typical power consumption [W]	26.37 W
Typical heat dissipation [BTU/hour]	89.98 BTU/hour
Maximum power consumption [W]	34.04 W
Maximum heat dissipation [BTU/hour]	116.15 BTU/hour
Static power consumption [W]	19.00 W
MTBF [years]	70.75 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)

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Item	Specification
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.11 S5735R-L24T4X-QA-V2

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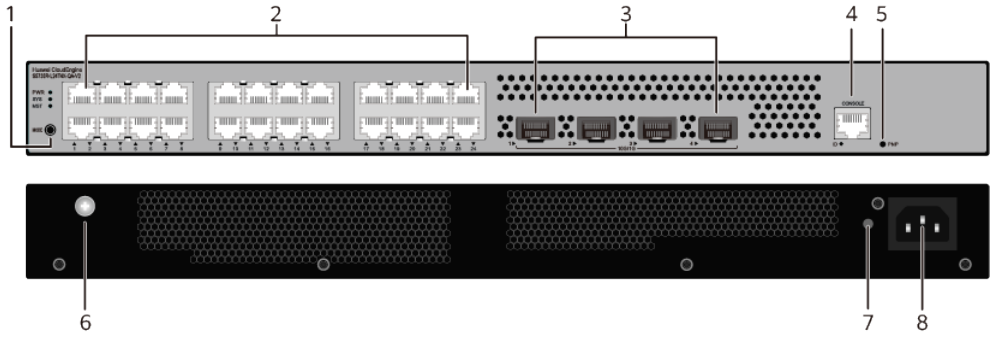
Overview

Table 4-486 Basic information about the S5735R-L24T4X-QA-V2

Item	Details
Description	S5735R-L24T4X-QA-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, built-in AC power, Fanless)
Part Number	98012677
Model	S5735R-L24T4X-QA-V2
First supported version	V600R024C00

Components

Figure 4-175 S5735R-L24T4X-QA-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.

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7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-487 Ports on the S5735R-L24T4X-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 10 km)** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

Indicators and Buttons

The S5735R-L24T4X-QA-V2 has similar indicators to those on the S5735R-L8P4X-QA-V2 except that the S5735R-L24T4X-QA-V2 does not have a PoE mode indicator. For details, see the S5735R-L8P4X-QA-V2.

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Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-488 Technical specifications of the S5735R-L24T4X-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.36 kg (5.2 lb)
Weight with packaging [kg(lb)]	3.48 kg (7.67 lb)
Typical power consumption [W]	26.13 W
Typical heat dissipation [BTU/hour]	89.16 BTU/hour
Maximum power consumption [W]	29.96 W
Maximum heat dissipation [BTU/hour]	102.23 BTU/hour
Static power consumption [W]	14.94 W
MTBF [years]	71.51 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0

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Item	Specification
Number of power slots	0
Number of fans modules	0
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	0.8 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	None

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Item	Specification
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.12 S5735R-L24P4S-A-V2

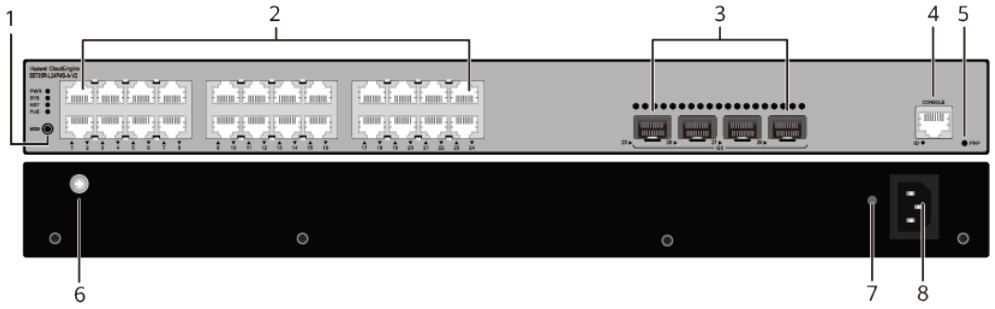
Overview

Table 4-489 Basic information about the S5735R-L24P4S-A-V2

Item	Details
Description	S5735R-L24P4S-A-V2 (24*10/100/1000BASE-T ports(PoE+), 4*GE SFP ports, 400 W PoE, built-in AC power)
Part Number	98012678
Model	S5735R-L24P4S-A-V2
First supported version	V600R024C00

Components

Figure 4-176 S5735R-L24P4S-A-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports

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3	Four 1000BASE-X ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-490 Ports on the S5735R-L24P4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Indicators and Buttons

The S5735R-L24P4S-A-V2 has similar indicators to those on the S5735R-L8P4X-QA-V2. For details, see the S5735R-L8P4X-QA-V2.

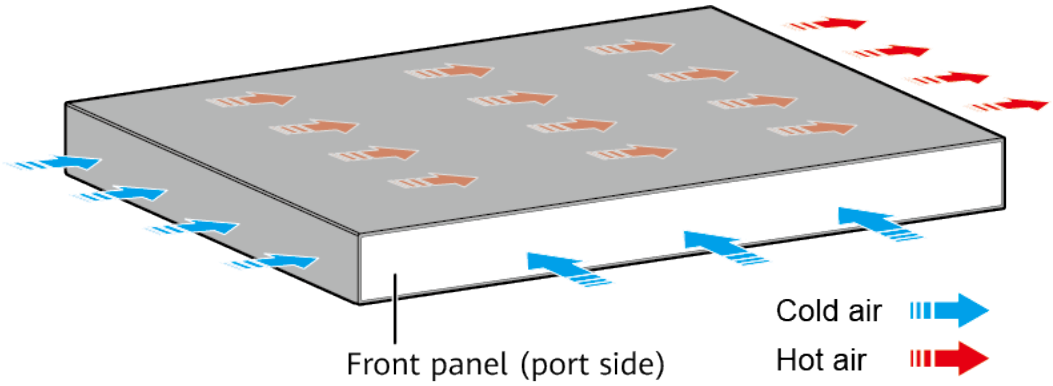
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-491 Technical specifications of the S5735R-L24P4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.92 kg (6.44 lb)
Weight with packaging [kg(lb)]	3.79 kg (8.36 lb)
Typical power consumption [W]	36.32 W
Typical heat dissipation [BTU/hour]	123.93 BTU/hour
Maximum power consumption [W]	• Without PoE: 43.35 W • Full PoE load: 484.91 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 147.91 • Full PoE load: 1654.56
Static power consumption [W]	27.07 W
MTBF [years]	60.18 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)

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Item	Specification
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.10.13 S5735R-L24P4X-A-V2

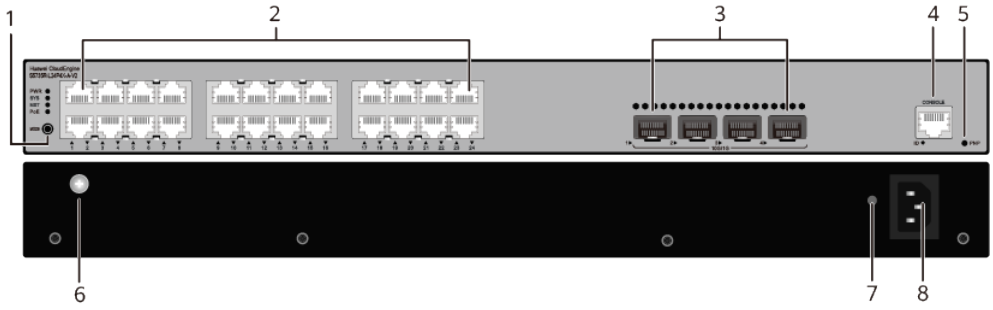
Overview

Table 4-492 Basic information about the S5735R-L24P4X-A-V2

Item	Details
Description	S5735R-L24P4X-A-V2 (24*10/100/1000BASE-T ports(PoE+), 4*10GE SFP+ ports, 400 W PoE, built-in AC power)
Part Number	98012679
Model	S5735R-L24P4X-A-V2
First supported version	V600R024C00

Components

Figure 4-177 S5735R-L24P4X-A-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.

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7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-493 Ports on the S5735R-L24P4X-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Indicators and Buttons

The S5735R-L24P4X-A-V2 has similar indicators to those on the S5735R-L8P4X-QA-V2. For details, see the S5735R-L8P4X-QA-V2.

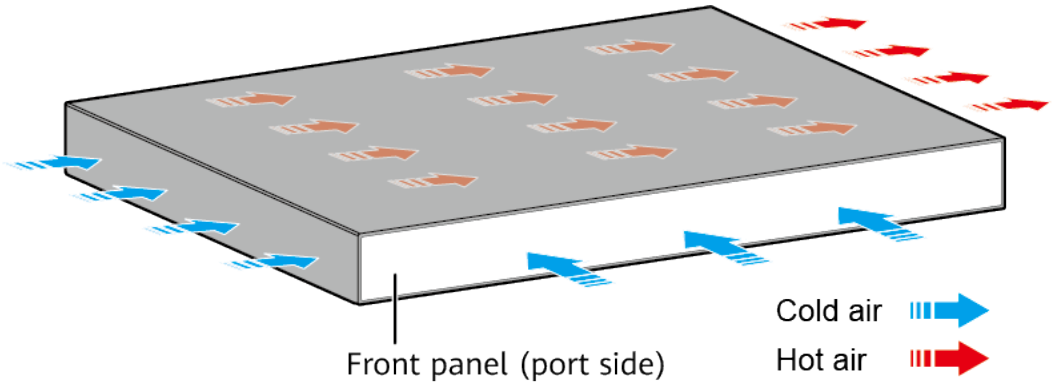
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-494 Technical specifications of the S5735R-L24P4X-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.92 kg (6.44 lb)
Weight with packaging [kg(lb)]	3.79 kg (8.36 lb)
Typical power consumption [W]	36.32 W
Typical heat dissipation [BTU/hour]	123.93 BTU/hour
Maximum power consumption [W]	• Without PoE: 43.35 W • Full PoE load: 484.91 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 147.91 • Full PoE load: 1654.56
Static power consumption [W]	27.07 W
MTBF [years]	60.18 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)

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Item	Specification
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.10.14 S5735R-L48T4S-A-V2

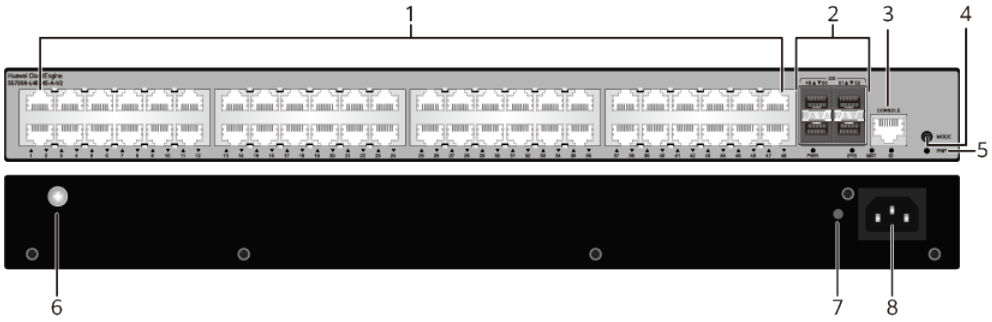
Overview

Table 4-495 Basic information about the S5735R-L48T4S-A-V2

Item	Details
Description	S5735R-L48T4S-A-V2 (48*10/100/1000BASE-T ports, 4*GE SFP ports, built-in AC power)
Part Number	98012680
Model	S5735R-L48T4S-A-V2
First supported version	V600R024C00

Components

Figure 4-178 S5735R-L48T4S-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports	2	Four 1000BASE-X ports
3	One console port	4	One MODE button
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.

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7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-496 Ports on the S5735R-L48T4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Indicators and Buttons

The S5735R-L48T4S-A-V2 has similar indicators to those on the S5735R-L48LP4X-A-V2 except that the S5735R-L48T4S-A-V2 does not have a PoE mode indicator. For details, see the S5735R-L48LP4X-A-V2.

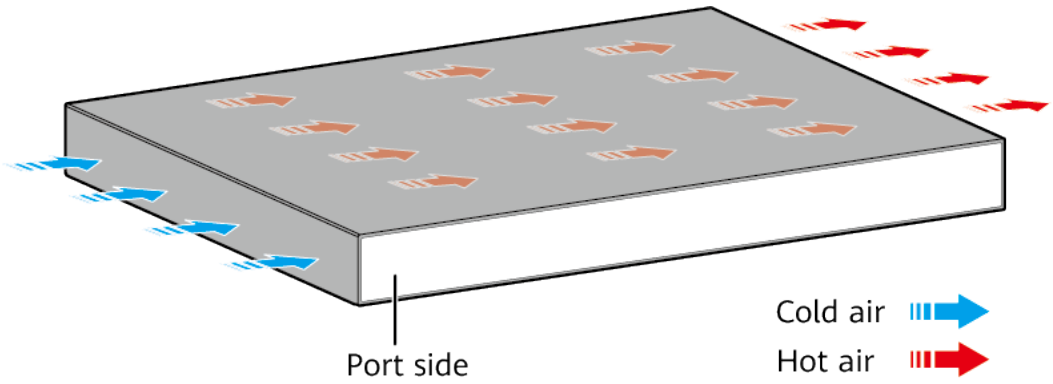
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-497 Technical specifications of the S5735R-L48T4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.71 kg (5.97 lb)
Weight with packaging [kg(lb)]	3.59 kg (7.91 lb)
Typical power consumption [W]	36.15 W
Typical heat dissipation [BTU/hour]	123.35 BTU/hour
Maximum power consumption [W]	43.3 W
Maximum heat dissipation [BTU/hour]	147.74 BTU/hour
Static power consumption [W]	18.8 W
MTBF [years]	47.14 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	46.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	34.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used. The device does not support dying gasp when the ambient temperature is higher than 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	1.6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.15 S5735R-L48T4X-A-V2

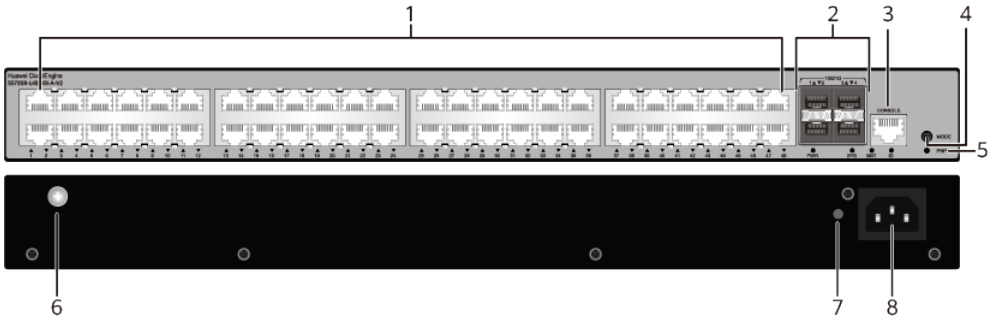
Overview

Table 4-498 Basic information about the S5735R-L48T4X-A-V2

Item	Details
Description	S5735R-L48T4X-A-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, built-in AC power)
Part Number	98012681
Model	S5735R-L48T4X-A-V2
First supported version	V600R024C00

Components

Figure 4-179 S5735R-L48T4X-A-V2 appearance



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1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	One console port	4	One MODE button
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-499 Ports on the S5735R-L48T4X-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Indicators and Buttons

The S5735R-L48T4X-A-V2 has similar indicators to those on the S5735R-L48LP4X-A-V2 except that the S5735R-L48T4X-A-V2 does not have a PoE mode indicator. For details, see the S5735R-L48LP4X-A-V2.

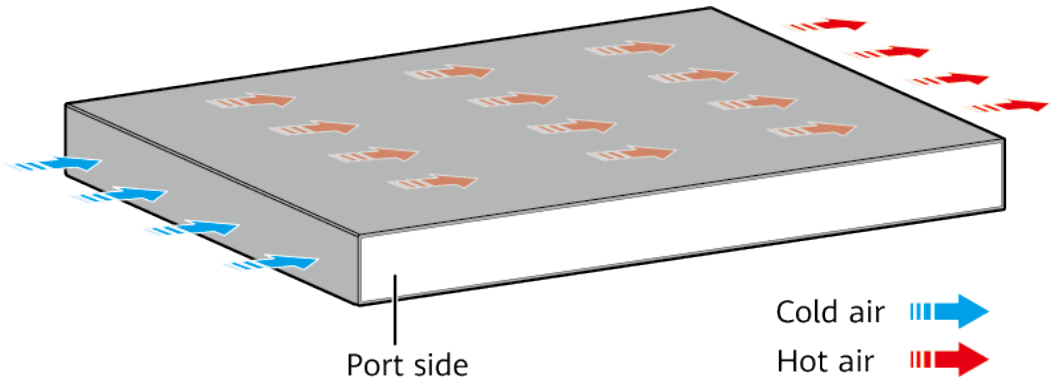
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-500 Technical specifications of the S5735R-L48T4X-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.71 kg (5.97 lb)
Weight with packaging [kg(lb)]	3.59 kg (7.91 lb)
Typical power consumption [W]	36.15 W
Typical heat dissipation [BTU/hour]	123.35 BTU/hour
Maximum power consumption [W]	43.3 W
Maximum heat dissipation [BTU/hour]	147.74 BTU/hour
Static power consumption [W]	18.8 W
MTBF [years]	47.14 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	46.6 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	34.6 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used. The device does not support dying gasp when the ambient temperature is higher than 40°C (104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	1.6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.16 S5735R-L48LP4S-A-V2

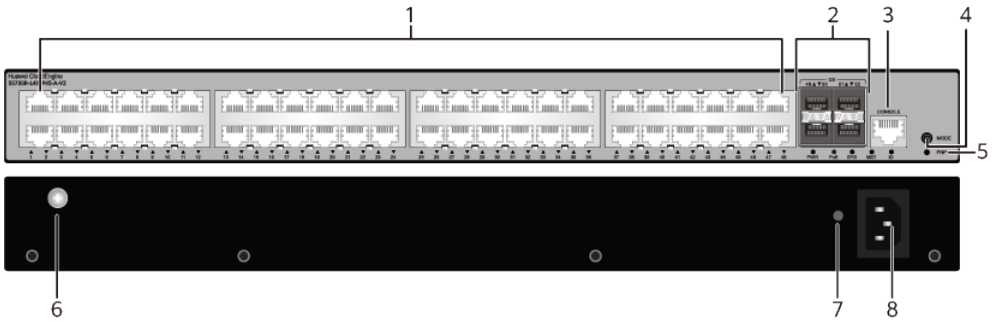
Overview

Table 4-501 Basic information about the S5735R-L48LP4S-A-V2

Item	Details
Description	S5735R-L48LP4S-A-V2 (48*10/100/1000BASE-T ports(PoE+), 4*GE SFP ports, 380 W PoE, built-in AC power)
Part Number	98012682
Model	S5735R-L48LP4S-A-V2
First supported version	V600R024C00

Components

Figure 4-180 S5735R-L48LP4S-A-V2 appearance



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1	Forty-eight 10/100/1000BASE-T PoE + ports	2	Four 1000BASE-X ports
3	One console port	4	One MODE button
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-502 Ports on the S5735R-L48LP4S-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (only used for stack connection)** • **10GE-CWDM SFP+ optical modules (only used for stack connection)** • **10GE-DWDM SFP+ optical modules (only used for stack connection)** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Indicators and Buttons

The S5735R-L48LP4S-A-V2 has similar indicators to those on the S5735R-L48LP4X-A-V2. For details, see the S5735R-L48LP4X-A-V2.

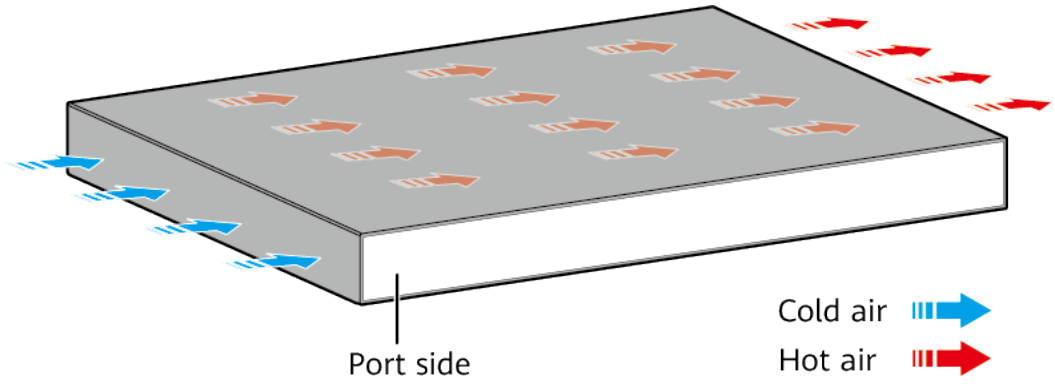
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 380 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 12 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-503 Technical specifications of the S5735R-L48LP4S-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.24 kg (7.14 lb)
Weight with packaging [kg(lb)]	4.29 kg (9.46 lb)
Typical power consumption [W]	48.64 W
Typical heat dissipation [BTU/hour]	165.96 BTU/hour
Maximum power consumption [W]	• Without PoE: 63.70 W • Full PoE load: 462.80 W (PoE: 380 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 217.35 • Full PoE load: 1579.12
Static power consumption [W]	34.04 W
MTBF [years]	48.14 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20

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Item	Specification
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.17 S5735R-L48LP4X-A-V2

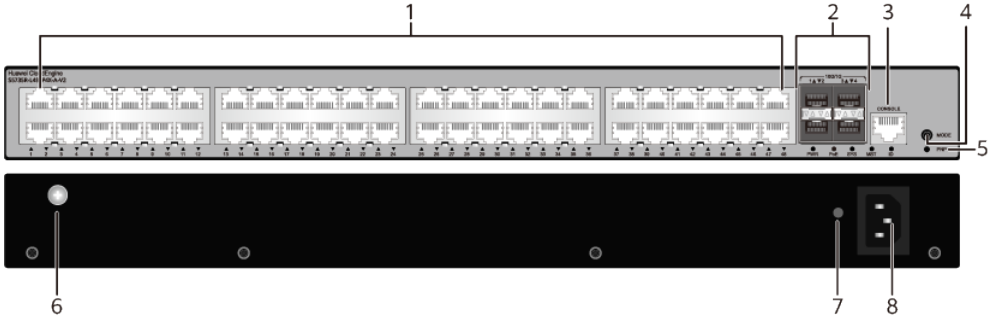
Overview

Table 4-504 Basic information about the S5735R-L48LP4X-A-V2

Item	Details
Description	S5735R-L48LP4X-A-V2 (48*10/100/1000BASE-T ports(PoE+), 4*10GE SFP+ ports, 380 W PoE, built-in AC power)
Part Number	98012683
Model	S5735R-L48LP4X-A-V2
First supported version	V600R024C00

Components

Figure 4-181 S5735R-L48LP4X-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE + ports	2	Four 10GE SFP+ ports
3	One console port	4	One MODE button
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	AC socket **NOTE** It is used with an **AC power cable**.

Ports

Table 4-505 Ports on the S5735R-L48LP4X-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Indicators and Buttons

Figure 4-182 Indicators on the Switch

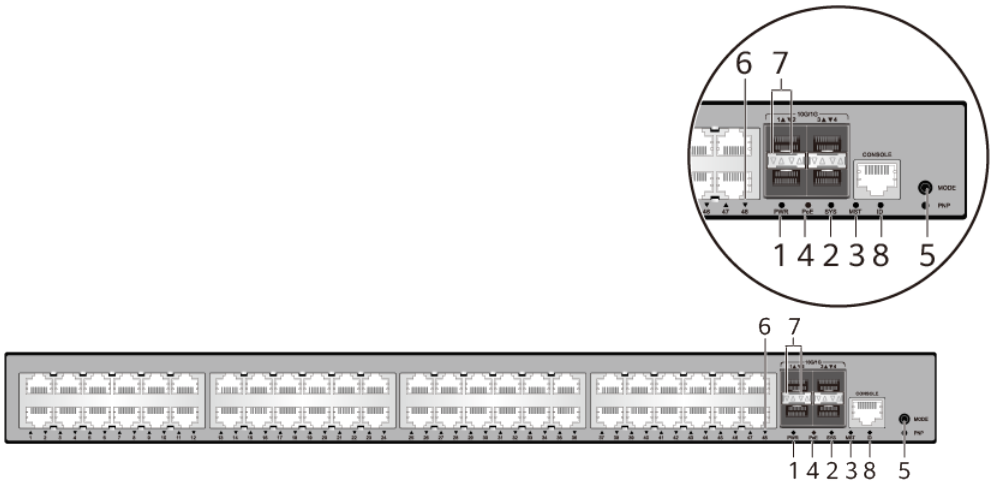

Table 4-506 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.

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No.	Indicator	Name	Color	Status	Description
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Electrical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-507** and **Table 4-508**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

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Table 4-507 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s.
	Green	Blinking	10/100/1000BASE-T port: The port is operating at 1000 Mbit/s.

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Table 4-508 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 380 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 12 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.

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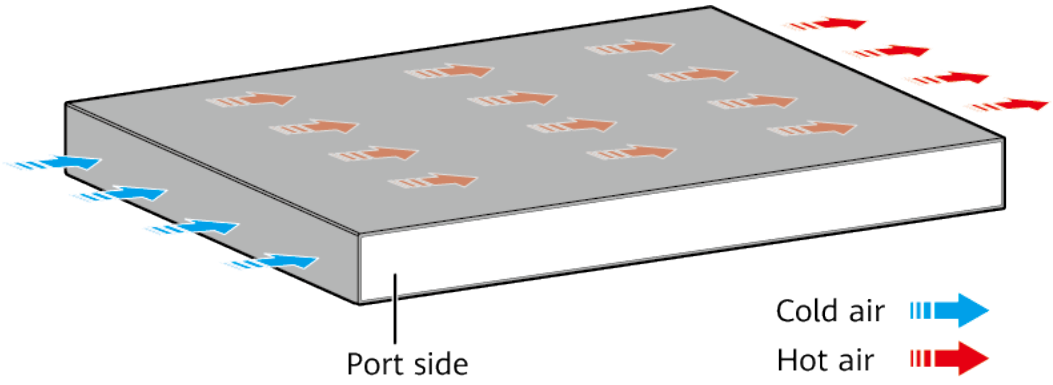

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-509 Technical specifications of the S5735R-L48LP4X-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.24 kg (7.14 lb)
Weight with packaging [kg(lb)]	4.29 kg (9.46 lb)
Typical power consumption [W]	48.64 W
Typical heat dissipation [BTU/hour]	165.96 BTU/hour
Maximum power consumption [W]	• Without PoE: 63.70 W • Full PoE load: 462.80 W (PoE: 380 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 217.35 • Full PoE load: 1579.12

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Item	Specification
Static power consumption [W]	34.04 W
MTBF [years]	48.14 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	6 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.10.18 S5735R-L48P4X-A-V2

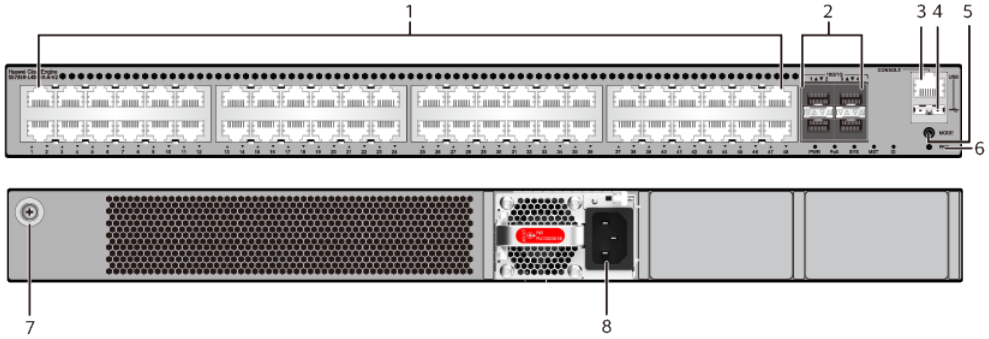
Overview

Table 4-510 Basic information about the S5735R-L48P4X-A-V2

Item	Details
Description	S5735R-L48P4X-A-V2 (48*10/100/1000BASE-T ports(PoE+), 4*10GE SFP+ ports, 846 W PoE, 1*AC power)
Part Number	98012684
Model	S5735R-L48P4X-A-V2
First supported version	V600R024C00

Components

Figure 4-183 S5735R-L48P4X-A-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE+ ports	2	Four 10GE SFP+ ports
3	One console port	4	One USB port
5	One MODE button	6	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.

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7	Ground screw **NOTE** It is used with a **ground cable**.	8	Power module slot **NOTE** Applicable power modules: • **PAC1000S56-EB**

Ports

Table 4-511 Ports on the S5735R-L48P4X-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-184 Indicators on the Switch

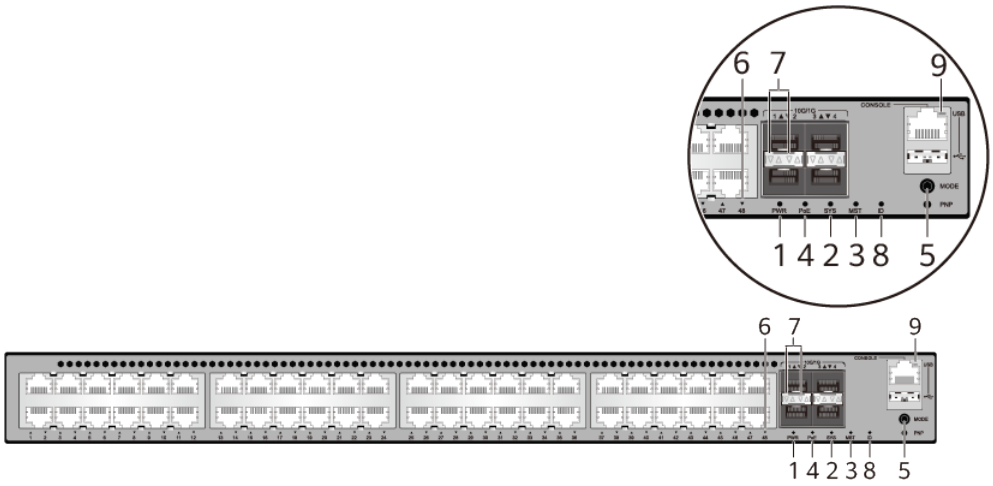

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Table 4-512 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Electrical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-513** and **Table 4-514**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

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Table 4-513 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s.
	Green	Blinking	10/100/1000BASE-T port: The port is operating at 1000 Mbit/s.

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Table 4-514 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch is a PoE switch and supports one power module slot, which can have a 1000 W PoE power module installed.

Table 4-515 Power supply configurations

Power Module	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28
1000 W AC (110 V)	756 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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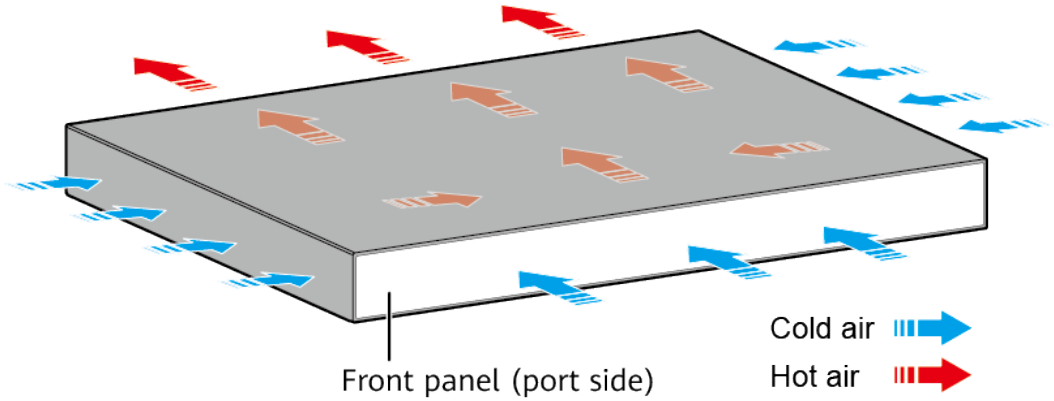

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-516 Technical specifications of the S5735R-L48P4X-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.10 kg (13.45 lb)
Weight with packaging [kg(lb)]	8.90 kg (19.62 lb)
Typical power consumption [W]	54.78 W
Typical heat dissipation [BTU/hour]	186.91 BTU/hour
Maximum power consumption [W]	• Without PoE: 76.66 W • Full PoE load: 993.74 W (PoE: 846 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 261.57 • Full PoE load: 3390.74

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Item	Specification
Static power consumption [W]	36.75 W
MTBF [years]	79.02 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	67 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	55 dB(A)
Number of card slots	0
Number of power slots	1
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.

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Item	Specification
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.11 S5735I-L-V2

4.11.1 S5735I-L8P4X-A-V2

Overview

Table 4-517 Basic information about the S5735I-L8P4X-A-V2

Item	Details
Description	S5735I-L8P4X-A-V2 (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, PoE+, AC power)
Part Number	98012151

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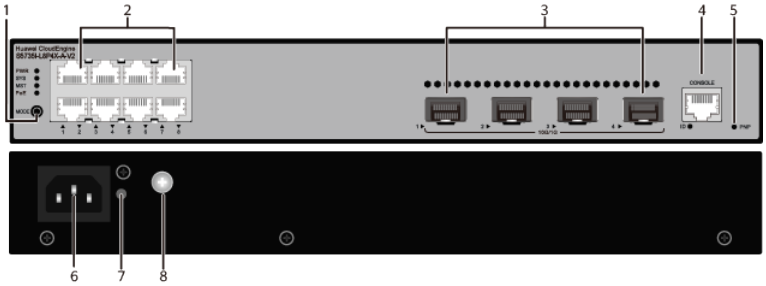
Item	Details
Model	S5735I-L8P4X-A-V2
First supported version	V600R022C10

Components

Figure 4-185 S5735I-L8P4X-A-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	One console port
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	AC socket **NOTE** It is used with an **AC power cable**.
7	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	8	Ground screw **NOTE** It is used with a **ground cable**.

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Ports

Table 4-518 Ports on the S5735I-L8P4X-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

Indicators and Buttons

The S5735I-L8P4X-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2. For details, see the S5735-L8P2T4X-A-V2.

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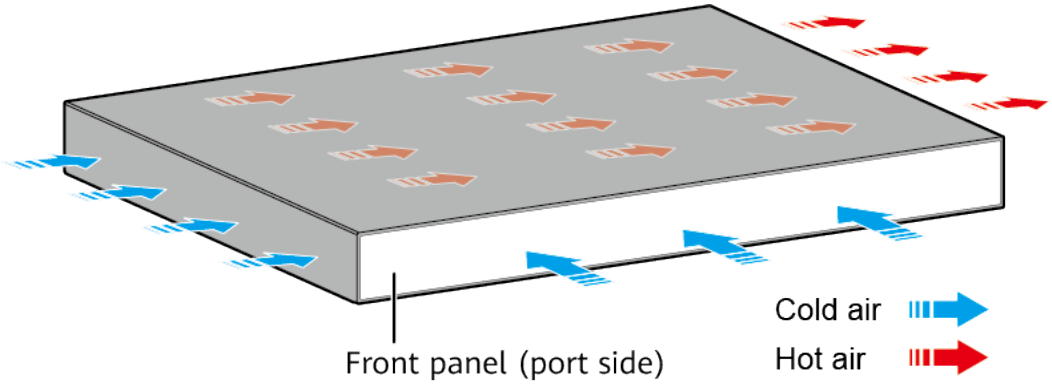
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 125 W PoE power, which ensures full PoE power on 8 ports in compliance with 802.3af or on 4 ports in compliance with 802.3at.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-519 Technical specifications of the S5735I-L8P4X-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 320.0 mm x 210.0 mm (1.72 in. x 12.6 in. x 8.27 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 320.0 mm x 217.0 mm (1.72 in. x 12.6 in. x 8.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 465.0 mm x 380.0 mm (3.54 in. x 18.31 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal

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Item	Specification
Weight without packaging [kg(lb)]	2.23 kg (4.92 lb)
Weight with packaging [kg(lb)]	2.98 kg (6.57 lb)
Typical power consumption [W]	20.44 W
Typical heat dissipation [BTU/hour]	69.74 BTU/hour
Maximum power consumption [W]	• Without PoE: 29.78 W • Full PoE load: 168.97 W (PoE: 125 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 101.61 • Full PoE load: 576.54
Static power consumption [W]	17.04 W
MTBF [years]	69.71 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	37.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	26.5 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–40°C to +65°C (-40°F to 149°F) at an altitude of 0–1800 m (0–5906 ft.), mapping industrial optical modules
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than -25°C (-13°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)

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Item	Specification
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 300 V AC; 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.11.2 S5735I-L10T4X-A-V2

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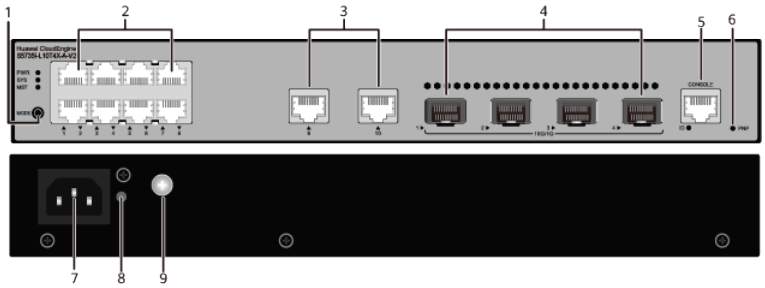
Overview

Table 4-520 Basic information about the S5735I-L10T4X-A-V2

Item	Details
Description	S5735I-L10T4X-A-V2 (10*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power)
Part Number	98012152
Model	S5735I-L10T4X-A-V2
First supported version	V600R022C10

Components

Figure 4-186 S5735I-L10T4X-A-V2 appearance



1	One MODE button	2	Eight 10/100/1000BASE-T ports
3	Two 10/100/1000BASE-T ports	4	Four 10GE SFP+ ports
5	One console port	6	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
7	AC socket **NOTE** It is used with an **AC power cable**.	8	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.

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9	Ground screw **NOTE** It is used with a **ground cable**.	-	-

Ports

Table 4-521 Ports on the S5735I-L10T4X-A-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Indicators and Buttons

The S5735I-L10T4X-A-V2 has similar indicators to those on the S5735-L8P2T4X-A-V2 except that the S5735I-L10T4X-A-V2 does not have a PoE mode indicator. For details, see the S5735-L8P2T4X-A-V2.

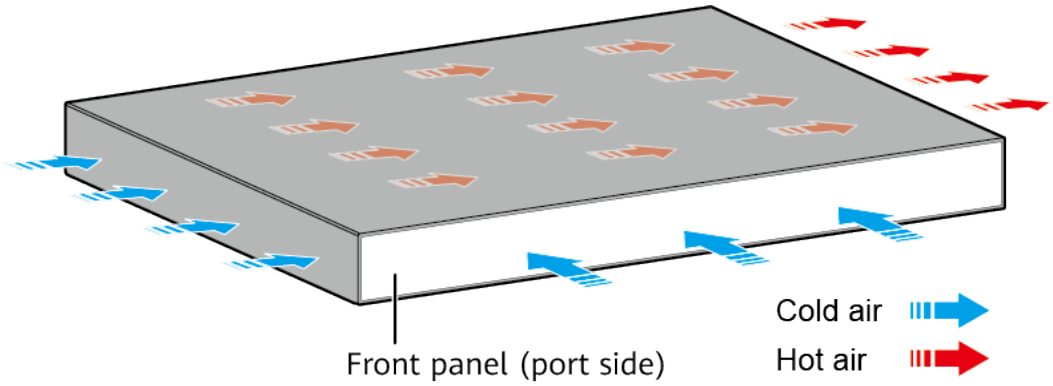
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has a built-in fan for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-522 Technical specifications of the S5735I-L10T4X-A-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 320.0 mm x 210.0 mm (1.72 in. x 12.6 in. x 8.27 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 320.0 mm x 217.0 mm (1.72 in. x 12.6 in. x 8.54 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 465.0 mm x 380.0 mm (3.54 in. x 18.31 in. x 14.96 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.93 kg (4.25 lb)
Weight with packaging [kg(lb)]	2.68 kg (5.91 lb)
Typical power consumption [W]	19.39 W
Typical heat dissipation [BTU/hour]	66.16 BTU/hour
Maximum power consumption [W]	29.95 W
Maximum heat dissipation [BTU/hour]	102.19 BTU/hour
Static power consumption [W]	12.82 W
MTBF [years]	73.83 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	39.2 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	28.5 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	1
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–40°C to +65°C (-40°F to 149°F) at an altitude of 0–1800 m (0–5906 ft.), mapping industrial optical modules

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than -25°C (-13°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC; 45 Hz to 65 Hz
Maximum input current [A]	2 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right

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Item	Specification
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12 S5735-S-V2

4.12.1 S5735-S24T4XE-V2 (98012016)

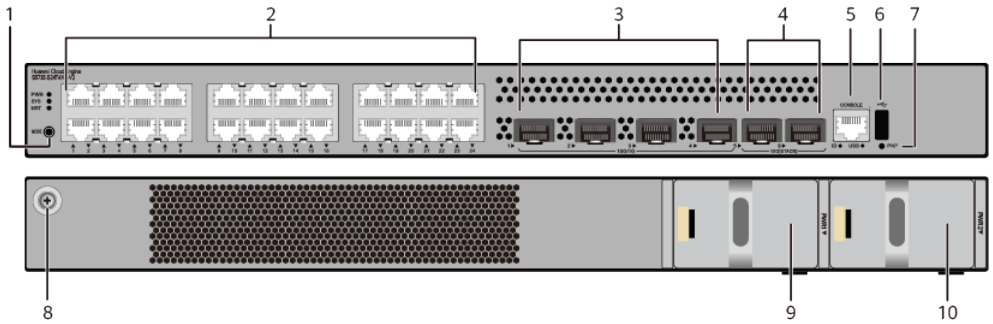
Overview

Table 4-523 Basic information about the S5735-S24T4XE-V2

Item	Details
Description	S5735-S24T4XE-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012016
Model	S5735-S24T4XE-V2
First supported version	V600R022C01

Components

Figure 4-187 S5735-S24T4XE-V2 appearance



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1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**

Ports

Table 4-524 Ports on the S5735-S24T4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S24T4XE-V2 has similar indicators to those on the S5735-S24P4XE-V2 except that the S5735-S24T4XE-V2 does not have a PoE mode indicator. For details, see the S5735-S24P4XE-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has one built-in fan for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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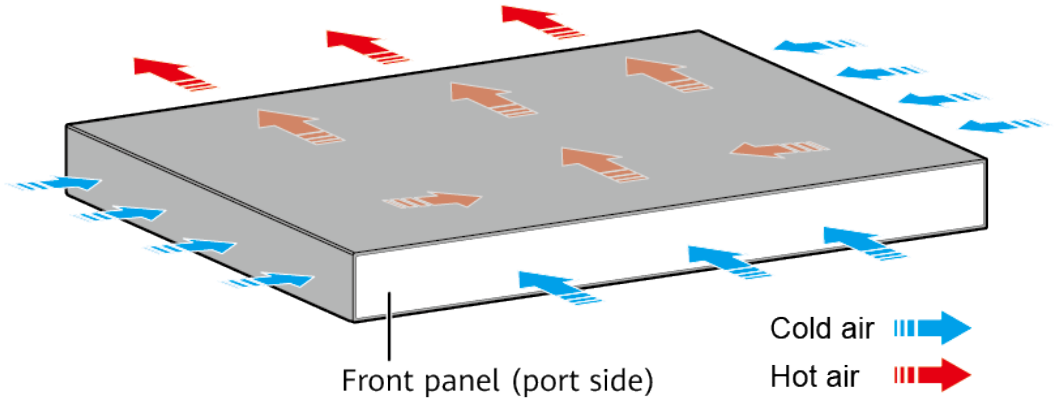

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-525 Technical specifications of the S5735-S24T4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.34 kg (9.57 lb)
Weight with packaging [kg(lb)]	7.48 kg (16.49 lb)
Typical power consumption [W]	26.20 W
Typical heat dissipation [BTU/hour]	89.40 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 33.10 W (with two 80 W AC power modules) • 45.75 W (with two 180 W AC power modules) • 85.20 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 112.94 (with two 80 W AC power modules) • 156.10 (with two 180 W AC power modules) • 290.71 (with two 1200 W DC power modules)
Static power consumption [W]	23.2 W
MTBF [years]	168.93 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	1
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing

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Item	Specification
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear

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Item	Specification
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.2 S5735-S24T4XE-V2 (98012016-002)

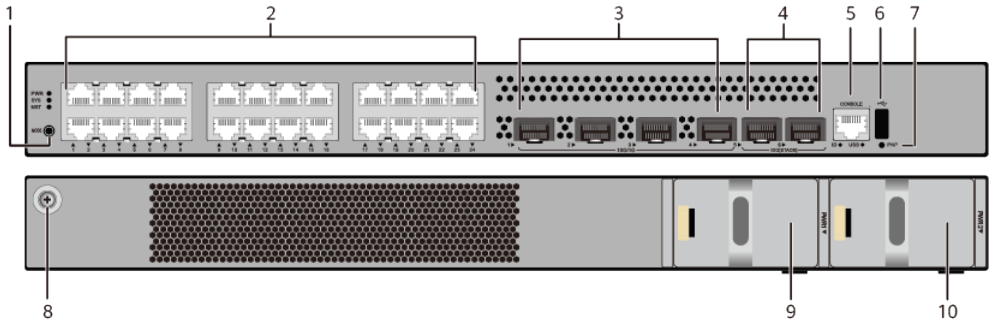
Overview

Table 4-526 Basic information about the S5735-S24T4XE-V2

Item	Details
Description	S5735-S24T4XE-V2 WB (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012016-002
Model	S5735-S24T4XE-V2
First supported version	V600R022C01

Components

Figure 4-188 S5735-S24T4XE-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	Two stack ports

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5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**

Ports

Table 4-527 Ports on the S5735-S24T4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S24T4XE-V2 has similar indicators to those on the S5735-S24P4XE-V2 except that the S5735-S24T4XE-V2 does not have a PoE mode indicator. For details, see the S5735-S24P4XE-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has one built-in fan for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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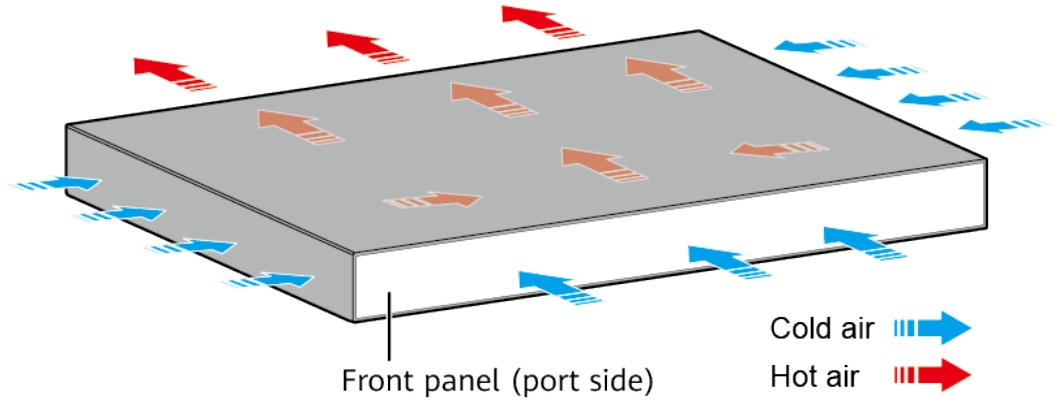

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-528 Technical specifications of the S5735-S24T4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.34 kg (9.57 lb)
Weight with packaging [kg(lb)]	7.48 kg (16.49 lb)
Typical power consumption [W]	26.20 W
Typical heat dissipation [BTU/hour]	89.40 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 33.10 W (with two 80 W AC power modules) • 45.75 W (with two 180 W AC power modules) • 85.20 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 112.94 (with two 80 W AC power modules) • 156.10 (with two 180 W AC power modules) • 290.71 (with two 1200 W DC power modules)
Static power consumption [W]	23.2 W
MTBF [years]	168.93 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	1
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing

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Item	Specification
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear

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Item	Specification
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.3 S5735-S24T4XE-V2 (98012016-003)

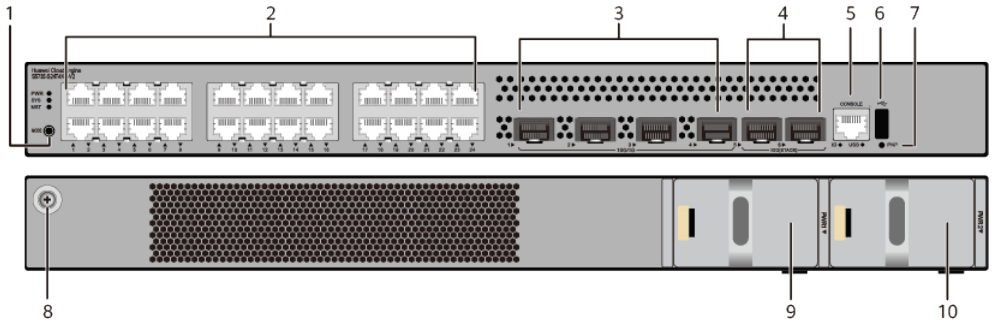
Overview

Table 4-529 Basic information about the S5735-S24T4XE-V2

Item	Details
Description	S5735-S24T4XE-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, without power module, Specially protected models)
Part Number	98012016-003
Model	S5735-S24T4XE-V2
First supported version	V600R024C10

Components

Figure 4-189 S5735-S24T4XE-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports

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3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB** • **PDC1K2S12-CE**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB** • **PDC1K2S12-CE**

Ports

Table 4-530 Ports on the S5735-S24T4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • 0.5 m and 1.5 m SFP+ dedicated stack cables (only used zero-configuration stacking)

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

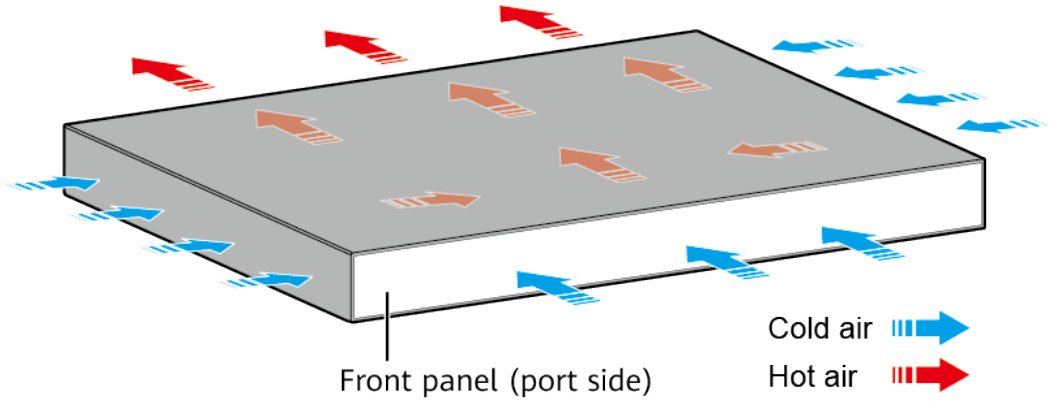
The S5735-S24T4XE-V2 has similar indicators to those on the S5735-S24P4XE-V2 except that the S5735-S24T4XE-V2 does not have a PoE mode indicator. For details, see the S5735-S24P4XE-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has one built-in fan for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-531 Technical specifications of the S5735-S24T4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)

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Item	Specification
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.34 kg (9.57 lb)
Weight with packaging [kg(lb)]	7.48 kg (16.49 lb)
Typical power consumption [W]	26.20 W
Typical heat dissipation [BTU/hour]	89.40 BTU/hour
Maximum power consumption [W]	• 33.10 W (with two 80 W AC power modules) • 45.75 W (with two 180 W AC power modules) • 85.20 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 112.94 (with two 80 W AC power modules) • 156.10 (with two 180 W AC power modules) • 290.71 (with two 1200 W DC power modules)
Static power consumption [W]	23.2 W
MTBF [years]	168.93 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	1
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.4 S5735-S24P4XE-V2 (98012030)

Overview

Table 4-532 Basic information about the S5735-S24P4XE-V2

Item	Details
Description	S5735-S24P4XE-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE+, without power module)
Part Number	98012030
Model	S5735-S24P4XE-V2
First supported version	V600R022C01

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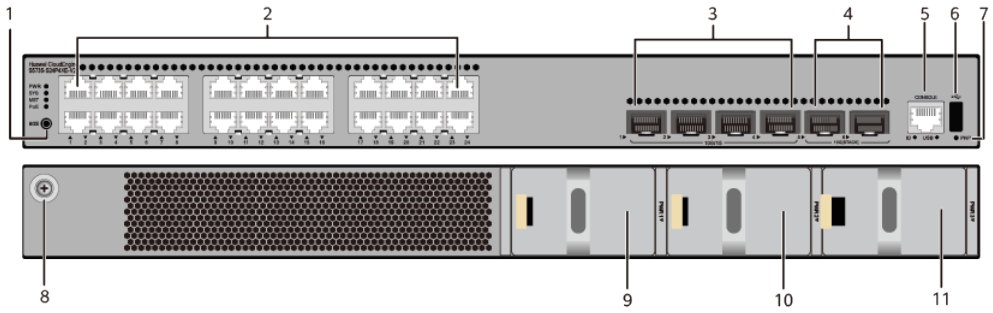
Components

Figure 4-190 S5735-S24P4XE-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-533 Ports on the S5735-S24P4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-191 Indicators on the Switch

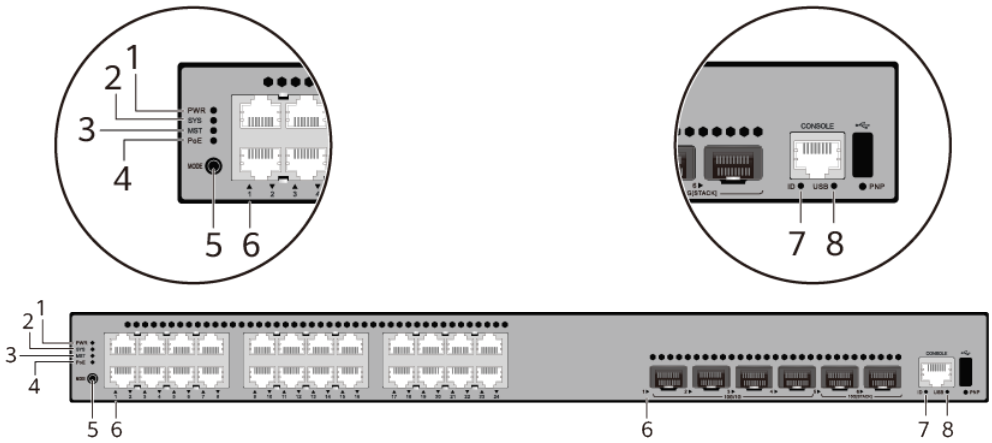

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Table 4-534 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-535**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-535 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-536 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	774 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W DC	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	–	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	247 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	817 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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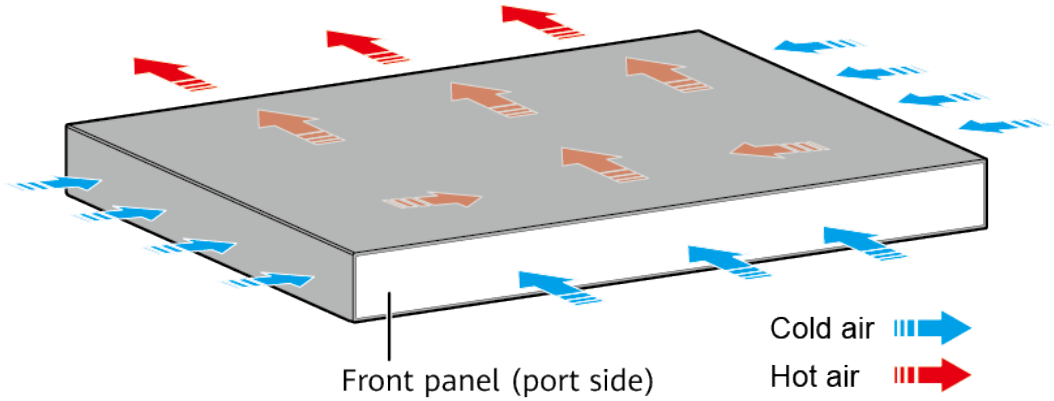

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-537 Technical specifications of the S5735-S24P4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.80 kg (10.58 lb)
Weight with packaging [kg(lb)]	7.74 kg (17.06 lb)
Typical power consumption [W]	39.43 W
Typical heat dissipation [BTU/hour]	134.54 BTU/hour

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Item	Specification
Maximum power consumption [W]	- Without PoE: 45.80 W (with two 600 W AC power modules) 55.70 W (with two 1000 W AC power modules) 64.68 W (with two 1000 W DC power modules) - Full PoE load: 1023.22 W (PoE: 840 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 156.27 (with two 600 W AC power modules) 190.05 (with two 1000 W AC power modules) 220.69 (with two 1000 W DC power modules) - Full PoE load: 3491.33 (PoE: 2866.16, with three 1000 W AC power modules)
Static power consumption [W]	28.65 W
MTBF [years]	120.24 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 49 dBA Three 1000 W AC PoE power modules with 30% load: 48.5 dBA Three 1000 W DC PoE power modules with 30% load: 47.3 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 37 dBA Three 1000 W AC PoE power modules with 30% load: 36.9 dBA Three 1000 W DC PoE power modules with 30% load: 35.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported

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Item	Specification
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.5 S5735-S24P4XE-V2 (98012030-001)

Overview

Table 4-538 Basic information about the S5735-S24P4XE-V2

Item	Details
Description	S5735-S24P4XE-V2 (24*10/100/1000BASE-T ports(PoE+), 4*10GE SFP+ ports, 2*12GE stack ports, without power module, Specially protected models)
Part Number	98012030-001
Model	S5735-S24P4XE-V2
First supported version	V600R024C10

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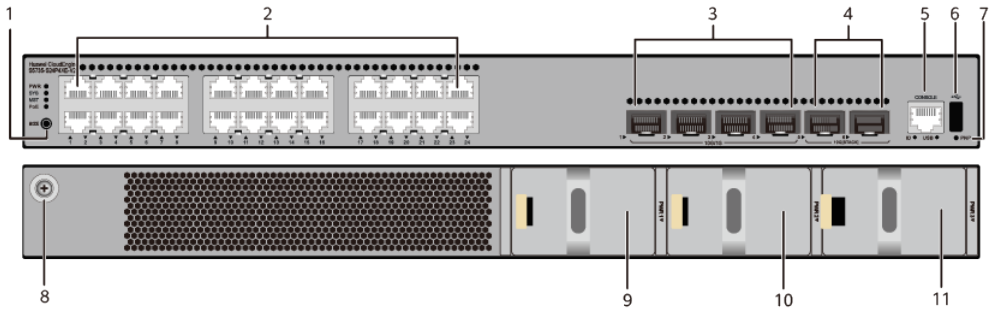
Components

Figure 4-192 S5735-S24P4XE-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-539 Ports on the S5735-S24P4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-193 Indicators on the Switch

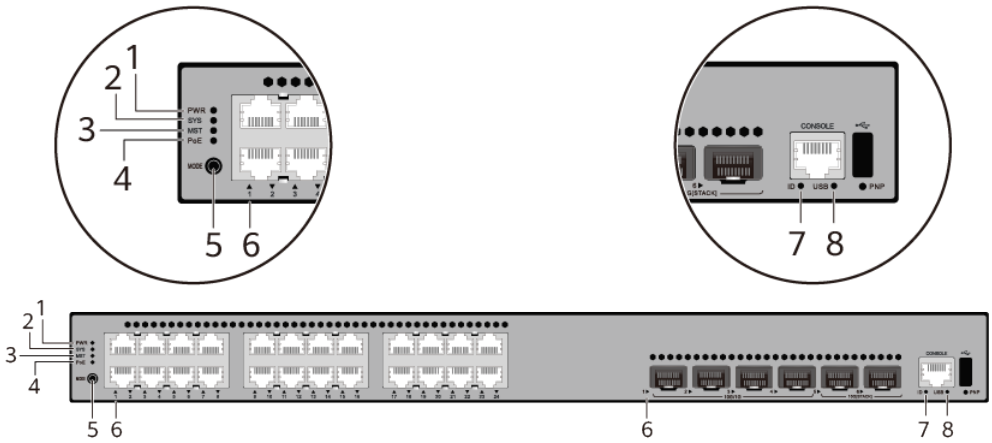

Table 4-540 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.

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No.	Indicator	Name	Color	Status	Description
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-541**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-541 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-542 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	774 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W DC	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	–	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	247 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	817 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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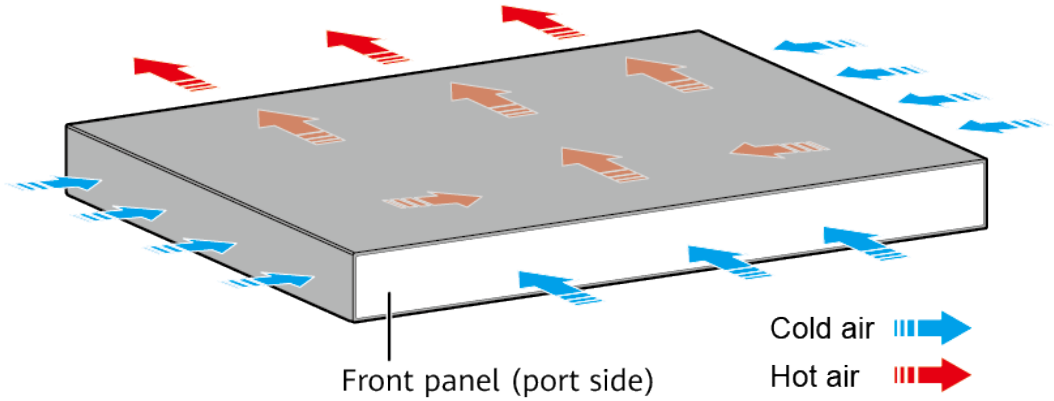

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-543 Technical specifications of the S5735-S24P4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.80 kg (10.58 lb)
Weight with packaging [kg(lb)]	7.74 kg (17.06 lb)
Typical power consumption [W]	39.43 W
Typical heat dissipation [BTU/hour]	134.54 BTU/hour

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Item	Specification
Maximum power consumption [W]	- Without PoE: 45.80 W (with two 600 W AC power modules) 55.70 W (with two 1000 W AC power modules) 64.68 W (with two 1000 W DC power modules) - Full PoE load: 1023.22 W (PoE: 840 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 156.27 (with two 600 W AC power modules) 190.05 (with two 1000 W AC power modules) 220.69 (with two 1000 W DC power modules) - Full PoE load: 3491.33 (PoE: 2866.16, with three 1000 W AC power modules)
Static power consumption [W]	28.65 W
MTBF [years]	120.24 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 49 dBA Three 1000 W AC PoE power modules with 30% load: 48.5 dBA Three 1000 W DC PoE power modules with 30% load: 47.3 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 37 dBA Three 1000 W AC PoE power modules with 30% load: 36.9 dBA Three 1000 W DC PoE power modules with 30% load: 35.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported

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Item	Specification
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.6 S5735-S24U4XE-V2 (98012056)

Overview

Table 4-544 Basic information about the S5735-S24U4XE-V2

Item	Details
Description	S5735-S24U4XE-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE++, without power module)
Part Number	98012056
Model	S5735-S24U4XE-V2
First supported version	V600R022C01

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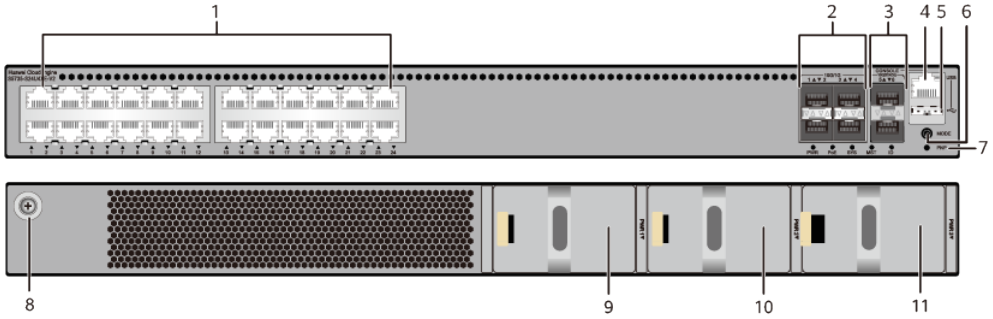
Components

Figure 4-194 S5735-S24U4XE-V2 appearance



1	Twenty-four 10/100/1000BASE-T PoE++ ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-545 Ports on the S5735-S24U4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S24U4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-546 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	846 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W DC	–	–	846 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1746 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 19
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1566 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
600 W AC (220 V)	600 W AC (220 V)	–	1083 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 18 • 802.3bt (90 W per port): 12
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1386 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1653 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1926 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 21
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24

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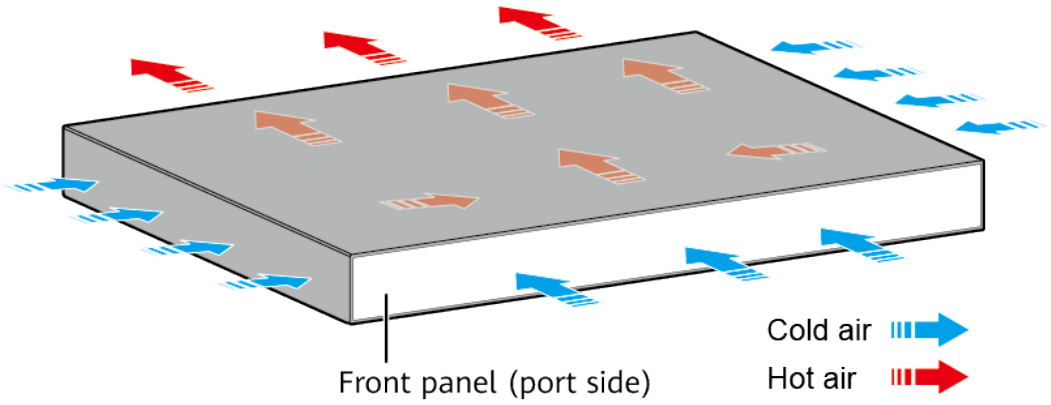
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 8

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-547 Technical specifications of the S5735-S24U4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.02 kg (11.07 lb)
Weight with packaging [kg(lb)]	7.82 kg (17.24 lb)
Typical power consumption [W]	36.98 W
Typical heat dissipation [BTU/hour]	126.18 BTU/hour
Maximum power consumption [W]	- Without PoE: 53.60 W (with two 600 W AC power modules) 56.70 W (with two 1000 W AC power modules) 67.30 W (with two 1000 W DC power modules) - Full PoE load: 2430.11 W (PoE: 2268 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 182.89 (with two 600 W AC power modules) 193.47 (with two 1000 W AC power modules) 229.63 (with two 1000 W DC power modules) - Full PoE load: 8291.78 (PoE: 7738.64, with three 1000 W AC power modules)

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Item	Specification
Static power consumption [W]	28.8 W
MTBF [years]	92.58 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.12.7 S5735-S24U4XE-V2 (98012056-001)

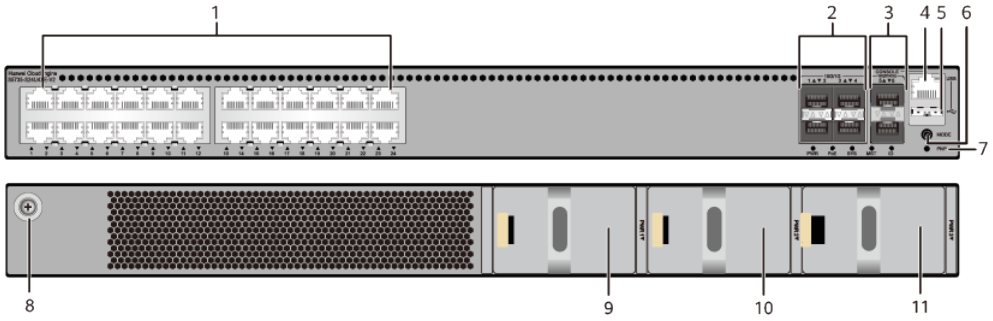
Overview

Table 4-548 Basic information about the S5735-S24U4XE-V2

Item	Details
Description	S5735-S24U4XE-V2 (24*10/100/1000BASE-T ports(PoE++), 4*10GE SFP+ ports, 2*12GE stack ports, without power module, Specially protected models)
Part Number	98012056-001
Model	S5735-S24U4XE-V2
First supported version	V600R024C10

Components

Figure 4-195 S5735-S24U4XE-V2 appearance



1	Twenty-four 10/100/1000BASE-T PoE++ ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port

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5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-549 Ports on the S5735-S24U4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

The S5735-S24U4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-550 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	846 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W DC	–	–	846 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1746 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 19
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1566 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
600 W AC (220 V)	600 W AC (220 V)	–	1083 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 18 • 802.3bt (90 W per port): 12

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1386 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1653 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1926 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 21
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 8

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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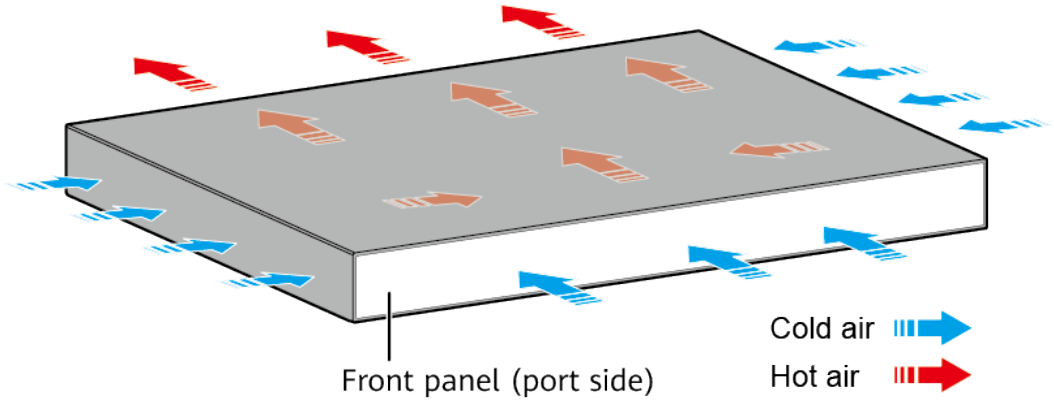

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-551 Technical specifications of the S5735-S24U4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.02 kg (11.07 lb)
Weight with packaging [kg(lb)]	7.82 kg (17.24 lb)
Typical power consumption [W]	36.98 W
Typical heat dissipation [BTU/hour]	126.18 BTU/hour

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Item	Specification
Maximum power consumption [W]	- Without PoE: 53.60 W (with two 600 W AC power modules) 56.70 W (with two 1000 W AC power modules) 67.30 W (with two 1000 W DC power modules) - Full PoE load: 2430.11 W (PoE: 2268 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 182.89 (with two 600 W AC power modules) 193.47 (with two 1000 W AC power modules) 229.63 (with two 1000 W DC power modules) - Full PoE load: 8291.78 (PoE: 7738.64, with three 1000 W AC power modules)
Static power consumption [W]	28.8 W
MTBF [years]	92.58 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported

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Item	Specification
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.8 S5735-S48T4XE-V2 (98012044)

Overview

Table 4-552 Basic information about the S5735-S48T4XE-V2

Item	Details
Description	S5735-S48T4XE-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012044
Model	S5735-S48T4XE-V2
First supported version	V600R022C01

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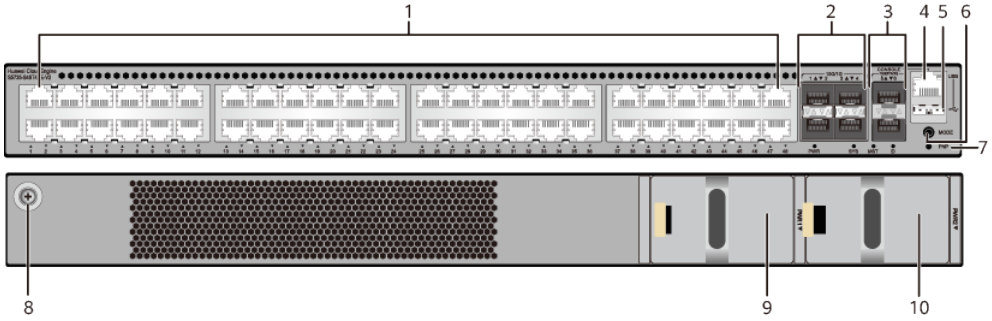
Components

Figure 4-196 S5735-S48T4XE-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**

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Ports

Table 4-553 Ports on the S5735-S48T4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S48T4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2 except that the S5735-S48T4XE-V2 does not have a PoE mode indicator. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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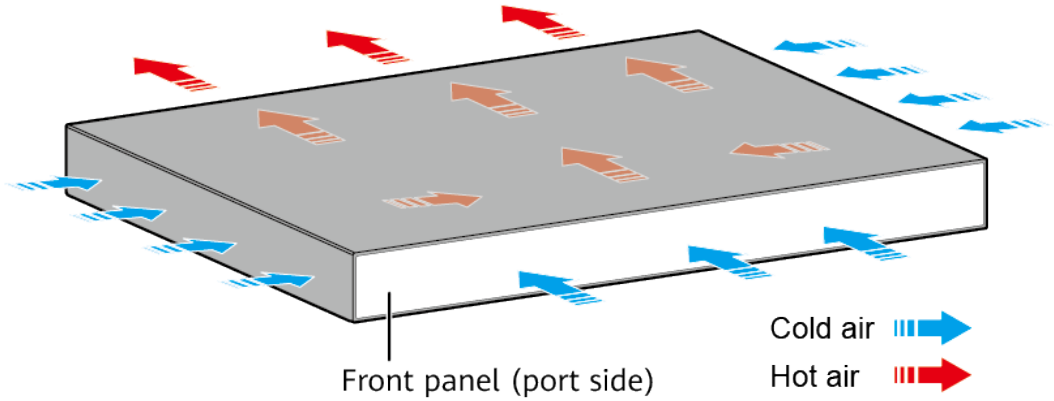

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-554 Technical specifications of the S5735-S48T4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.61 kg (10.16 lb)
Weight with packaging [kg(lb)]	7.74 kg (17.06 lb)
Typical power consumption [W]	39.10 W
Typical heat dissipation [BTU/hour]	133.41 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 55.12 W (with two 80 W AC power modules) • 64.51 W (with two 180 W AC power modules) • 93.26 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 188.07 (with two 80 W AC power modules) • 220.11 (with two 180 W AC power modules) • 318.21 (with two 1200 W DC power modules)
Static power consumption [W]	25.31 W
MTBF [years]	124.62 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	29.9 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.

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Item	Specification
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.9 S5735-S48T4XE-V2 (98012044-001)

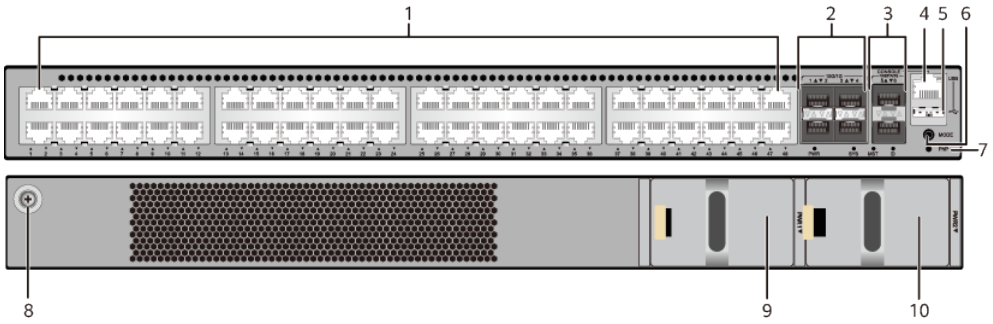
Overview

Table 4-555 Basic information about the S5735-S48T4XE-V2

Item	Details
Description	S5735-S48T4XE-V2 WB (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012044-001
Model	S5735-S48T4XE-V2
First supported version	V600R022C01

Components

Figure 4-197 S5735-S48T4XE-V2 appearance



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1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**

Ports

Table 4-556 Ports on the S5735-S48T4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S48T4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2 except that the S5735-S48T4XE-V2 does not have a PoE mode indicator. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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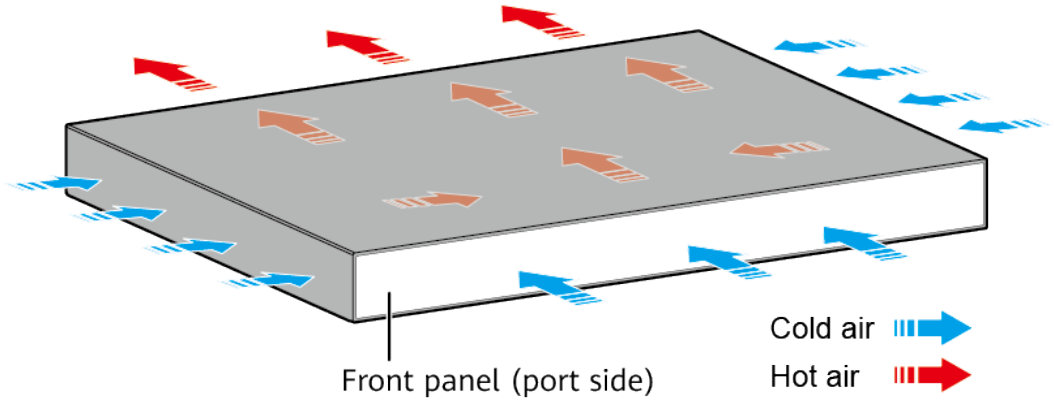

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-557 Technical specifications of the S5735-S48T4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.61 kg (10.16 lb)
Weight with packaging [kg(lb)]	7.74 kg (17.06 lb)
Typical power consumption [W]	39.10 W
Typical heat dissipation [BTU/hour]	133.41 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 55.12 W (with two 80 W AC power modules) • 64.51 W (with two 180 W AC power modules) • 93.26 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 188.07 (with two 80 W AC power modules) • 220.11 (with two 180 W AC power modules) • 318.21 (with two 1200 W DC power modules)
Static power consumption [W]	25.31 W
MTBF [years]	124.62 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	29.9 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.

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Item	Specification
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in

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Item	Specification
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.10 S5735-S48T4XE-V2 (98012044-002)

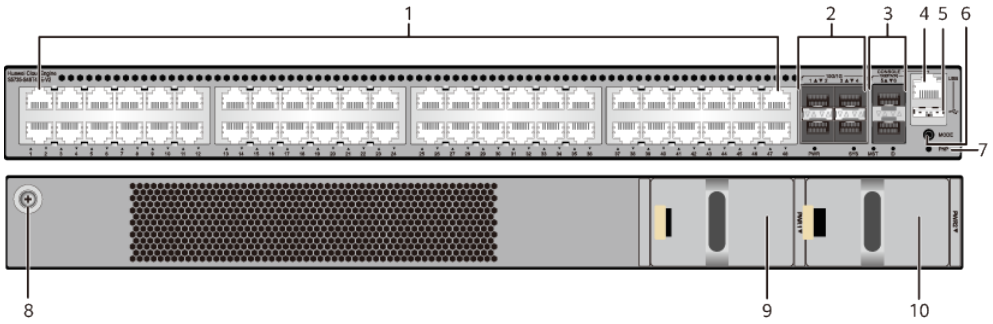
Overview

Table 4-558 Basic information about the S5735-S48T4XE-V2

Item	Details
Description	S5735-S48T4XE-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012044-002
Model	S5735-S48T4XE-V2
First supported version	V600R024C10

Components

Figure 4-198 S5735-S48T4XE-V2 appearance



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1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB** • **PDC1K2S12-CE**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB** • **PDC1K2S12-CE**

Ports

Table 4-559 Ports on the S5735-S48T4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

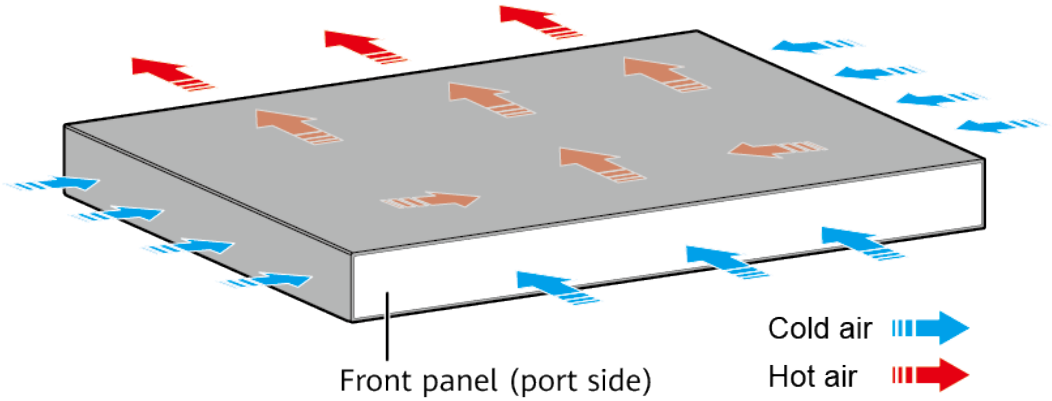
The S5735-S48T4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2 except that the S5735-S48T4XE-V2 does not have a PoE mode indicator. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-560 Technical specifications of the S5735-S48T4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)

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Item	Specification
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.61 kg (10.16 lb)
Weight with packaging [kg(lb)]	7.74 kg (17.06 lb)
Typical power consumption [W]	39.10 W
Typical heat dissipation [BTU/hour]	133.41 BTU/hour
Maximum power consumption [W]	• 55.12 W (with two 80 W AC power modules) • 64.51 W (with two 180 W AC power modules) • 93.26 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 188.07 (with two 80 W AC power modules) • 220.11 (with two 180 W AC power modules) • 318.21 (with two 1200 W DC power modules)
Static power consumption [W]	25.31 W
MTBF [years]	124.62 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	29.9 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.11 S5735-S48P4XE-V2 (98012053)

Overview

Table 4-561 Basic information about the S5735-S48P4XE-V2

Item	Details
Description	S5735-S48P4XE-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE+, without power module)
Part Number	98012053
Model	S5735-S48P4XE-V2
First supported version	V600R022C01

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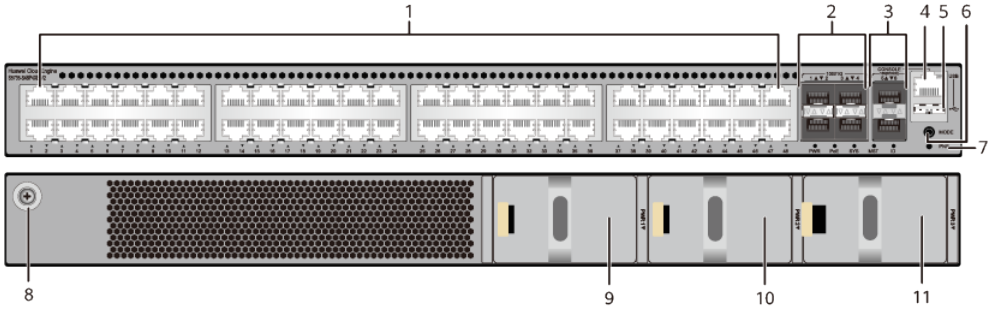
Components

Figure 4-199 S5735-S48P4XE-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE+ ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-562 Ports on the S5735-S48P4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S48P4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-563 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25
1000 W DC	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1566 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	–	1083 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 36
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1386 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1653 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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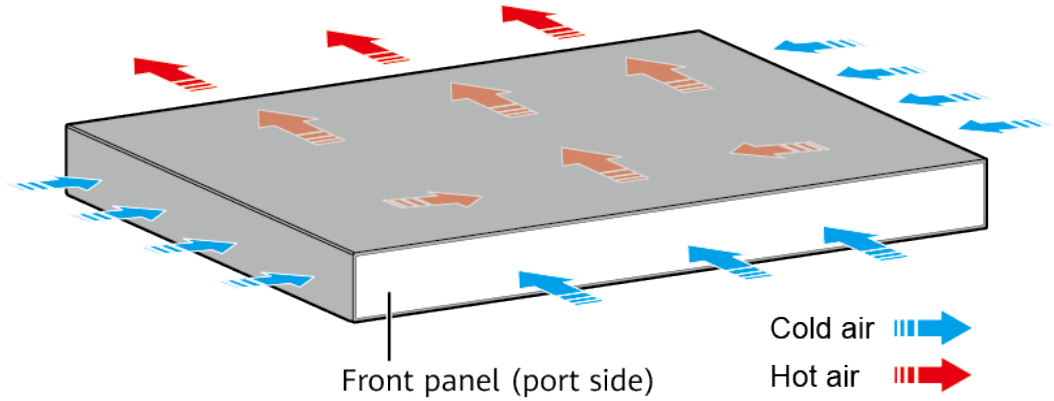

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-564 Technical specifications of the S5735-S48P4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.20 kg (11.46 lb)
Weight with packaging [kg(lb)]	8.00 kg (17.64 lb)
Typical power consumption [W]	54.51 W
Typical heat dissipation [BTU/hour]	185.99 BTU/hour

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Item	Specification
Maximum power consumption [W]	- Without PoE: 62.90 W (with two 600 W AC power modules) 67.20 W (with two 1000 W AC power modules) 76.93 W (with two 1000 W DC power modules) - Full PoE load: 1931.44 W (PoE: 1680 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 214.62 (with two 600 W AC power modules) 227.93 (with two 1000 W AC power modules) 261.47 (with two 1000 W DC power modules) - Full PoE load: 6590.27 (PoE: 5732.33, with three 1000 W AC power modules)
Static power consumption [W]	33.99 W
MTBF [years]	79.02 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported

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Item	Specification
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.12 S5735-S48P4XE-V2 (98012053-001)

Overview

Table 4-565 Basic information about the S5735-S48P4XE-V2

Item	Details
Description	S5735-S48P4XE-V2 (48*10/100/1000BASE-T ports(PoE+), 4*10GE SFP+ ports, 2*12GE stack ports, without power module, Specially protected models)
Part Number	98012053-001
Model	S5735-S48P4XE-V2
First supported version	V600R024C10

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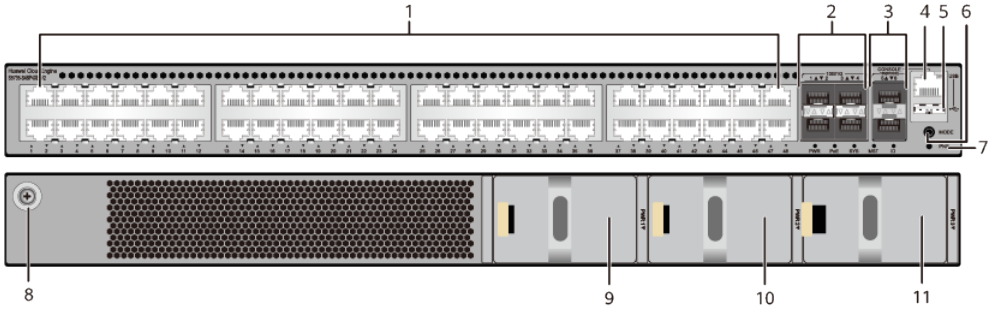
Components

Figure 4-200 S5735-S48P4XE-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE+ ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-566 Ports on the S5735-S48P4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

The S5735-S48P4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-567 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25
1000 W DC	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1566 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	–	1083 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 36
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1386 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1653 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26

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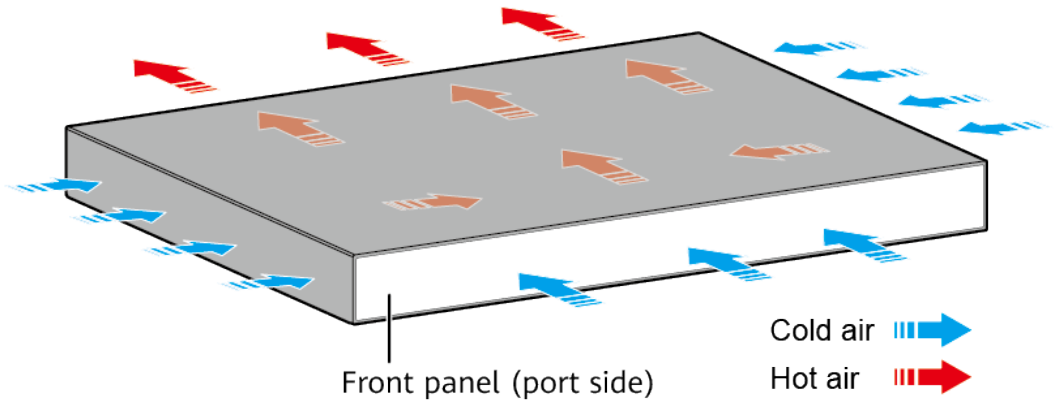
NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-568 Technical specifications of the S5735-S48P4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.20 kg (11.46 lb)
Weight with packaging [kg(lb)]	8.00 kg (17.64 lb)

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Item	Specification
Typical power consumption [W]	54.51 W
Typical heat dissipation [BTU/hour]	185.99 BTU/hour
Maximum power consumption [W]	- Without PoE: 62.90 W (with two 600 W AC power modules) 67.20 W (with two 1000 W AC power modules) 76.93 W (with two 1000 W DC power modules) - Full PoE load: 1931.44 W (PoE: 1680 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 214.62 (with two 600 W AC power modules) 227.93 (with two 1000 W AC power modules) 261.47 (with two 1000 W DC power modules) - Full PoE load: 6590.27 (PoE: 5732.33, with three 1000 W AC power modules)
Static power consumption [W]	33.99 W
MTBF [years]	79.02 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported

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Item	Specification
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.13 S5735-S48U4XE-V2 (98012059)

Overview

Table 4-569 Basic information about the S5735-S48U4XE-V2

Item	Details
Description	S5735-S48U4XE-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE++, without power module)
Part Number	98012059
Model	S5735-S48U4XE-V2
First supported version	V600R022C01

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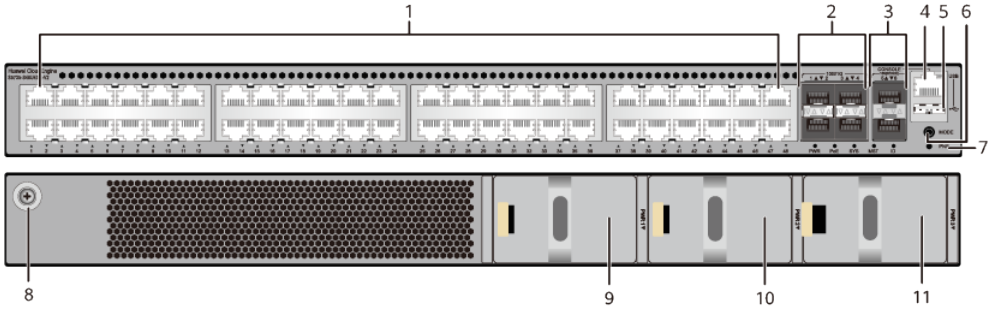
Components

Figure 4-201 S5735-S48U4XE-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE ++ ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-570 Ports on the S5735-S48U4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-202 Indicators on the Switch

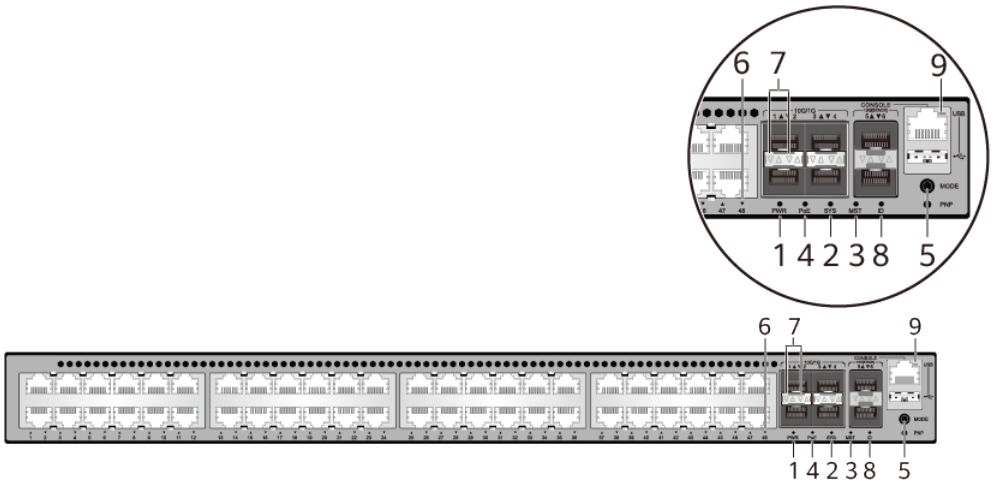

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Table 4-571 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Electrical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-572** and **Table 4-573**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

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Table 4-572 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 10M/100M/1000M/2.5GE BASE-T ports: The port is operating at 10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s.

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Display Mode	Color	Status	Description
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 10M/100M/1000M/2.5GE BASE-T ports: The port is operating at 2.5 Gbit/s.

Table 4-573 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-574 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W DC	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1746 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 29 • 802.3bt (90 W per port): 19
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1566 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 26 • 802.3bt (90 W per port): 17
600 W AC (220 V)	600 W AC (220 V)	–	1083 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 36 • 802.3bt (60 W per port): 18 • 802.3bt (90 W per port): 12
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1386 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2880 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 48 • 802.3bt (90 W per port): 32
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1653 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2286 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 38 • 802.3bt (90 W per port): 25
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1926 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 32 • 802.3bt (90 W per port): 21
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2376 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 39 • 802.3bt (90 W per port): 26

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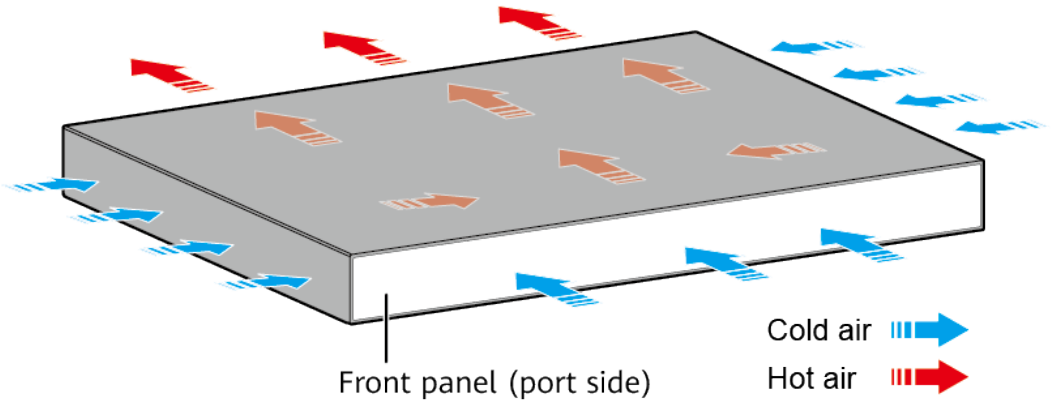
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 8

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-575 Technical specifications of the S5735-S48U4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.22 kg (11.51 lb)
Weight with packaging [kg(lb)]	8.02 kg (17.68 lb)
Typical power consumption [W]	56.23 W
Typical heat dissipation [BTU/hour]	188.45 BTU/hour
Maximum power consumption [W]	- Without PoE: 70.15 W (with two 600 W AC power modules) 74.22 W (with two 1000 W AC power modules) 83.66 W (with two 1000 W DC power modules) - Full PoE load: 3117.00 W (PoE: 2880 W, with three 1000 W AC power modules)

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Item	Specification
Maximum heat dissipation [BTU/hour]	- Without PoE: 239.36 (with two 600 W AC power modules) 253.25 (with two 1000 W AC power modules) 285.46 (with two 1000 W DC power modules) - Full PoE load: 10635.52 (PoE: 9826.85, with three 1000 W AC power modules)
Static power consumption [W]	31.57 W
MTBF [years]	73.29 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV

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Item	Specification
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.14 S5735-S48U4XE-V2 (98012059-001)

Overview

Table 4-576 Basic information about the S5735-S48U4XE-V2

Item	Details
Description	S5735-S48U4XE-V2 (48*10/100/1000BASE-T ports(PoE++), 4*10GE SFP+ ports, 2*12GE stack ports, without power module, Specially protected models)
Part Number	98012059-001
Model	S5735-S48U4XE-V2
First supported version	V600R024C10

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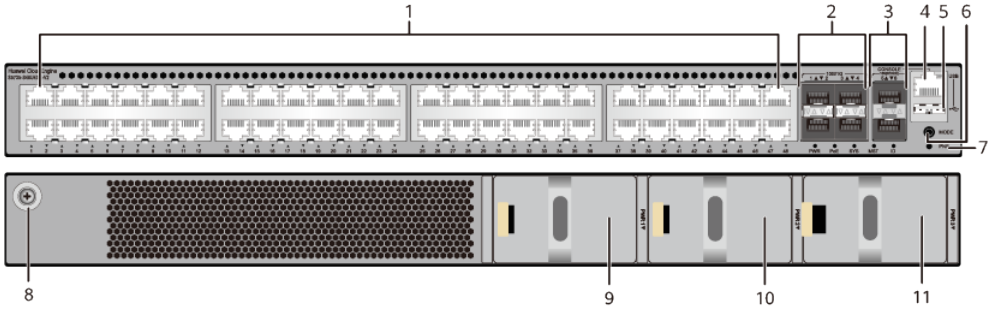
Components

Figure 4-203 S5735-S48U4XE-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE ++ ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-577 Ports on the S5735-S48U4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-204 Indicators on the Switch

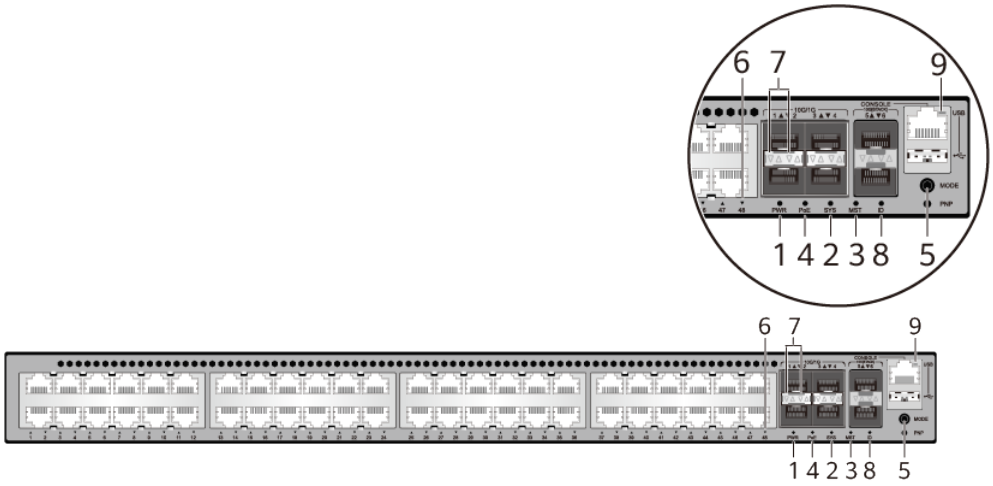

Table 4-578 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.

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No.	Indicator	Name	Color	Status	Description
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Electrical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-579** and **Table 4-580**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

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Table 4-579 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 10M/100M/1000M/2.5GE BASE-T ports: The port is operating at 10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s.

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Display Mode	Color	Status	Description
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 10M/100M/1000M/2.5GE BASE-T ports: The port is operating at 2.5 Gbit/s.

Table 4-580 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-581 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W DC	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1746 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 29 • 802.3bt (90 W per port): 19
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1566 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 26 • 802.3bt (90 W per port): 17
600 W AC (220 V)	600 W AC (220 V)	–	1083 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 36 • 802.3bt (60 W per port): 18 • 802.3bt (90 W per port): 12
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1386 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2880 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 48 • 802.3bt (90 W per port): 32
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1653 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2286 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 38 • 802.3bt (90 W per port): 25
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1926 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 32 • 802.3bt (90 W per port): 21
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2376 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 39 • 802.3bt (90 W per port): 26

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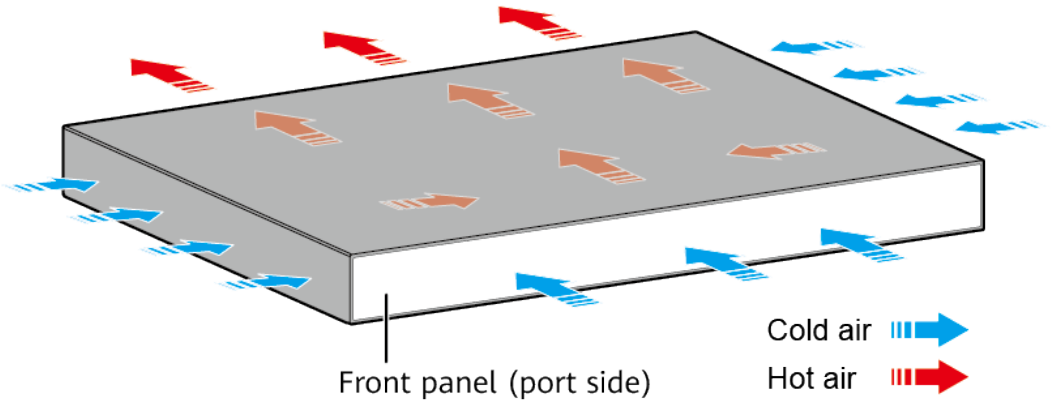
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 8

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-582 Technical specifications of the S5735-S48U4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.22 kg (11.51 lb)
Weight with packaging [kg(lb)]	8.02 kg (17.68 lb)
Typical power consumption [W]	56.23 W
Typical heat dissipation [BTU/hour]	188.45 BTU/hour
Maximum power consumption [W]	- Without PoE: 70.15 W (with two 600 W AC power modules) 74.22 W (with two 1000 W AC power modules) 83.66 W (with two 1000 W DC power modules) - Full PoE load: 3117.00 W (PoE: 2880 W, with three 1000 W AC power modules)

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Item	Specification
Maximum heat dissipation [BTU/hour]	- Without PoE: 239.36 (with two 600 W AC power modules) 253.25 (with two 1000 W AC power modules) 285.46 (with two 1000 W DC power modules) - Full PoE load: 10635.52 (PoE: 9826.85, with three 1000 W AC power modules)
Static power consumption [W]	31.57 W
MTBF [years]	73.29 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.15 S5735-S24T4XE-C-V2

Overview

Table 4-583 Basic information about the S5735-S24T4XE-C-V2

Item	Details
Description	S5735-S24T4XE-C-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, enhanced corrosion protection, without power module)
Part Number	98012394
Model	S5735-S24T4XE-C-V2
First supported version	V600R023C00

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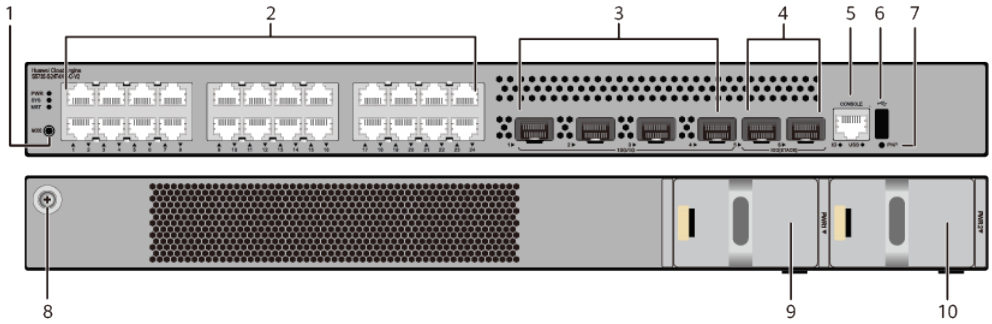
Components

Figure 4-205 S5735-S24T4XE-C-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PDC240S12-CN** (available since V600R024C00 version)	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PDC240S12-CN** (available since V600R024C00 version)

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Ports

Table 4-584 Ports on the S5735-S24T4XE-C-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	**0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S24T4XE-C-V2 has similar indicators to those on the S5735-S24P4XE-V2 except that the S5735-S24T4XE-C-V2 does not have a PoE mode indicator. For details, see the S5735-S24P4XE-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy.

Heat Dissipation System

The switch has one built-in fan. At room temperature, the fan stops working after the device is registered. At high temperature, the fan rotates, and the airflow in from the left, right, and front sides, and exhausts from the rear panel.

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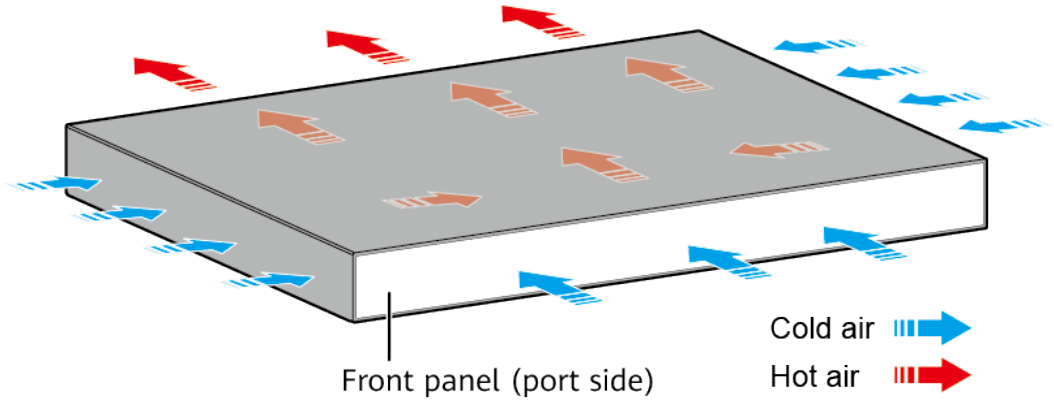

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-585 Technical specifications of the S5735-S24T4XE-C-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.34 kg (9.57 lb)
Weight with packaging [kg(lb)]	7.48 kg (16.49 lb)
Typical power consumption [W]	26.20 W
Typical heat dissipation [BTU/hour]	89.40 BTU/hour
Maximum power consumption [W]	33.10 W (with two 80 W AC power modules)
Maximum heat dissipation [BTU/hour]	112.94 (with two 80 W AC power modules)
Static power consumption [W]	23.2 W

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Item	Specification
MTBF [years]	168.93 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	The device is silent and has fans. At room temperature, the fans stop running after the device is registered.
Noise at normal temperature (acoustic pressure) [dB(A)]	The device is silent and has fans. At room temperature, the fans stop running after the device is registered.
Number of card slots	0
Number of power slots	2
Number of fans modules	1
Redundant power supply	1+1
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90–290 V AC; 45–65 Hz
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported

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Item	Specification
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Natural heat dissipation at room temperature, air cooling for heat dissipation at high temperature, and intelligent fan speed adjustment
Airflow direction	Air flows in from the left, front, and right sides and exhausts from the rear in high-temperature environments.
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.16 S5735-S48T4XE-C-V2

Overview

Table 4-586 Basic information about the S5735-S48T4XE-C-V2

Item	Details
Description	S5735-S48T4XE-C-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, enhanced corrosion protection, without power module)
Part Number	98012393
Model	S5735-S48T4XE-C-V2
First supported version	V600R023C00

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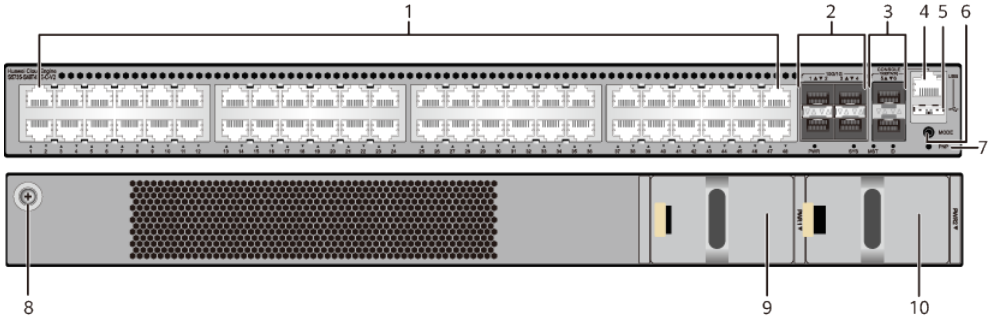
Components

Figure 4-206 S5735-S48T4XE-C-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PDC240S12-CN** (available since V600R024C00 version)	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PDC240S12-CN** (available since V600R024C00 version)

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Ports

Table 4-587 Ports on the S5735-S48T4XE-C-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	**0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S48T4XE-C-V2 has similar indicators to those on the S5735-S48U4XE-V2 except that the S5735-S48T4XE-C-V2 does not have a PoE mode indicator. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy.

Heat Dissipation System

The switch has two built-in fans. At room temperature, the fans stop working after the device is registered. At high temperature, the fans rotate, and the airflow in from the left, right, and front sides, and exhausts from the rear panel.

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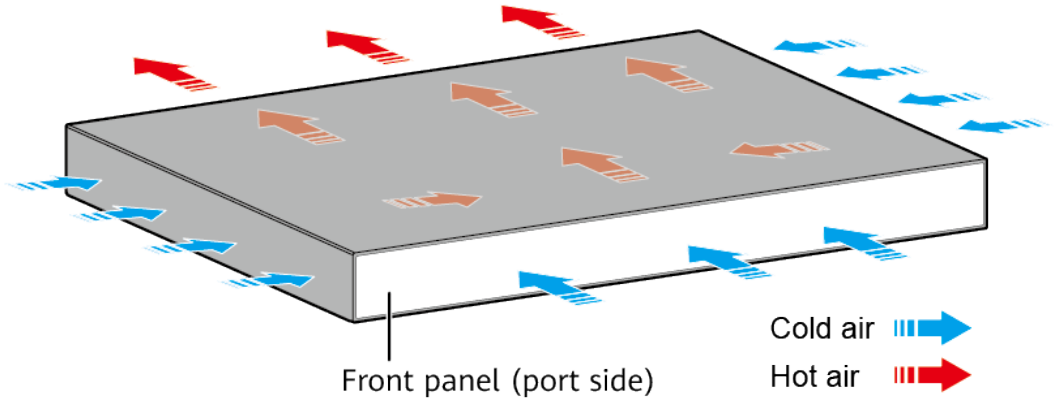

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-588 Technical specifications of the S5735-S48T4XE-C-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.61 kg (10.16 lb)
Weight with packaging [kg(lb)]	7.74 kg (17.06 lb)
Typical power consumption [W]	39.10 W
Typical heat dissipation [BTU/hour]	133.41 BTU/hour
Maximum power consumption [W]	55.12 W (with two 80 W AC power modules)
Maximum heat dissipation [BTU/hour]	188.07 (with two 80 W AC power modules)
Static power consumption [W]	25.31 W

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Item	Specification
MTBF [years]	124.62 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	The device is silent and has fans. At room temperature, the fans stop running after the device is registered.
Noise at normal temperature (acoustic pressure) [dB(A)]	The device is silent and has fans. At room temperature, the fans stop running after the device is registered.
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90–290 V AC; 45–65 Hz
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.

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Item	Specification
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Natural heat dissipation at room temperature, air cooling for heat dissipation at high temperature, and intelligent fan speed adjustment
Airflow direction	Air flows in from the left, front, and right sides and exhausts from the rear in high-temperature environments.
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.17 S5735-S24ST4XE-V2 (98012231)

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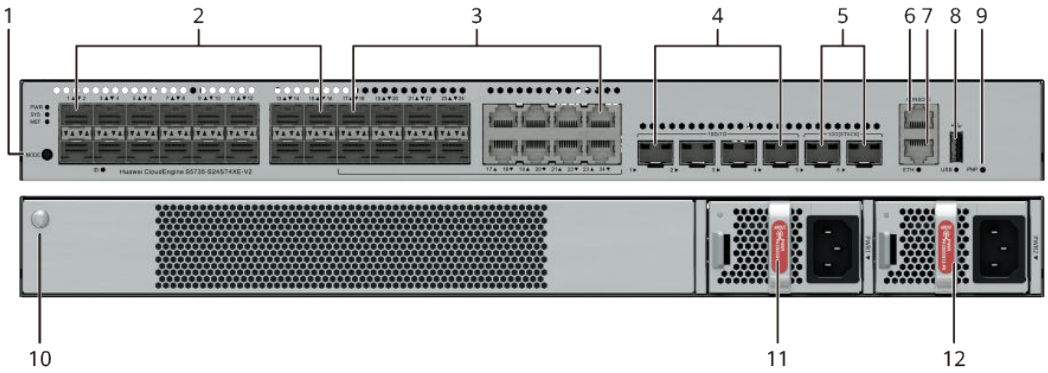
Overview

Table 4-589 Basic information about the S5735-S24ST4XE-V2

Item	Details
Description	S5735-S24ST4XE-V2 (24*GE SFP ports, 8 of which are dual-purpose 10/100/1000 or SFP, 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012231
Model	S5735-S24ST4XE-V2
First supported version	V600R023C00

Components

Figure 4-207 S5735-S24ST4XE-V2 appearance



1	One MODE button	2	Sixteen 100/1000BASE-X ports
3	Eight Combo ports (100/1000BASE-X optical ports and 10/100/1000BASE-T electrical ports)	4	Four 10GE SFP+ ports
5	Two stack ports	6	One console port
7	One ETH management port	8	One USB port

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9	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	10	Ground screw **NOTE** It is used with a **ground cable**.
11	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**	12	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**

Ports

Table 4-590 Ports on the S5735-S24ST4XE-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
Combo port (10/100/1000BASE-T + 100/1000BASE-X)	RJ45/SFP	A combo port refers to a pair of ports consisting of an optical Ethernet port and an electrical Ethernet port on the panel. Each combo port matches only one internal forwarding port. A combo port can be configured as an electrical port or an optical port, but only one port can be active at a time. When one port is active, the other port is shut down.	• **Ethernet cable** • **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-208 Indicators on the Switch

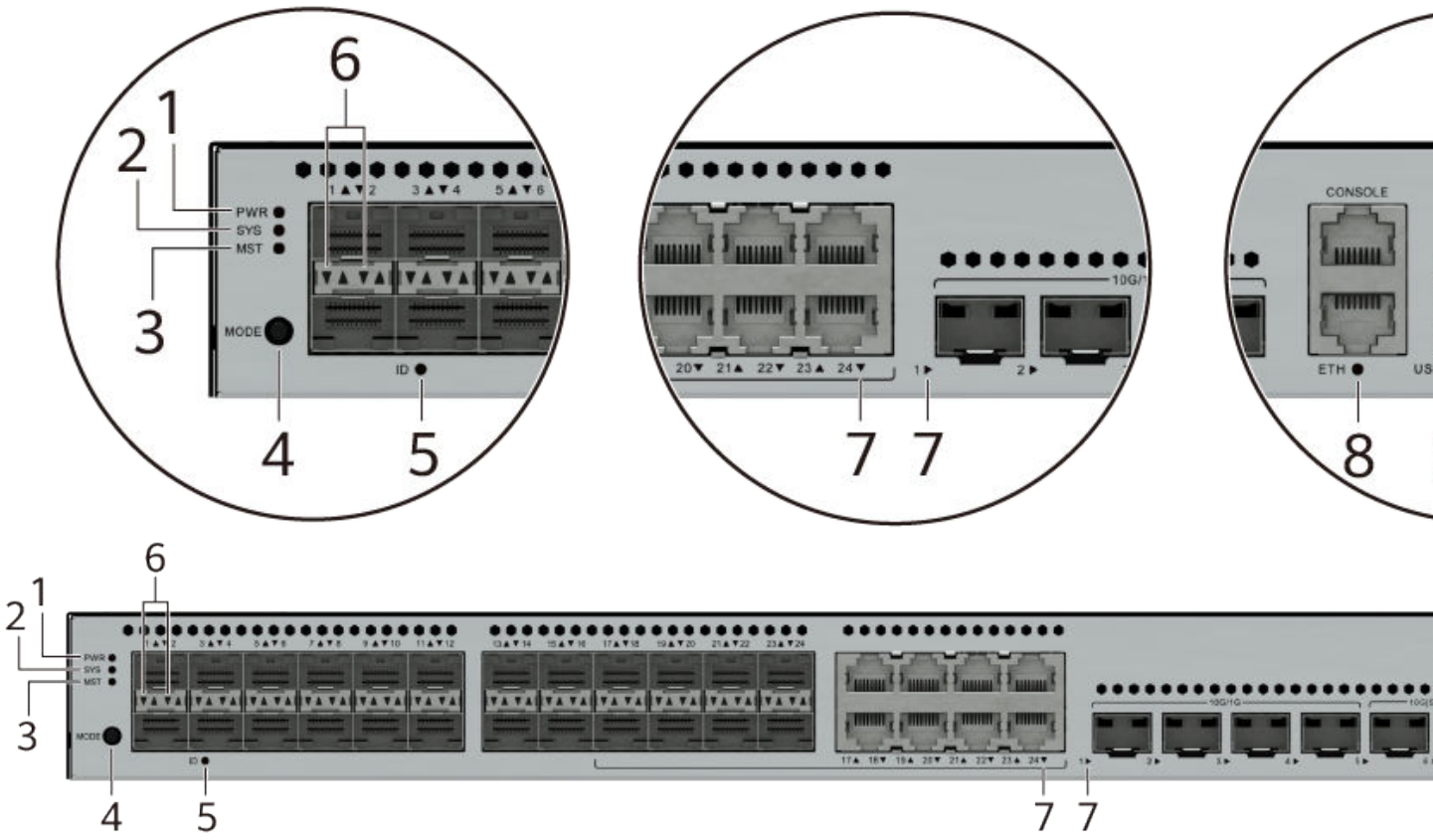

Table 4-591 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.

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No.	Indicator	Name	Color	Status	Description
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.

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No.	Indicator	Name	Color	Status	Description
4	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
5	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
6	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-592** and **Table 4-593**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Electrical or optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ETH	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

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No.	Indicator	Name	Color	Status	Description
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-592 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

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Table 4-593 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
MST stack mode (LINK indicator)	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
MST stack mode (ACT indicator)	-	Off	Port indicators do not show the stack ID of the switch.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	100/1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

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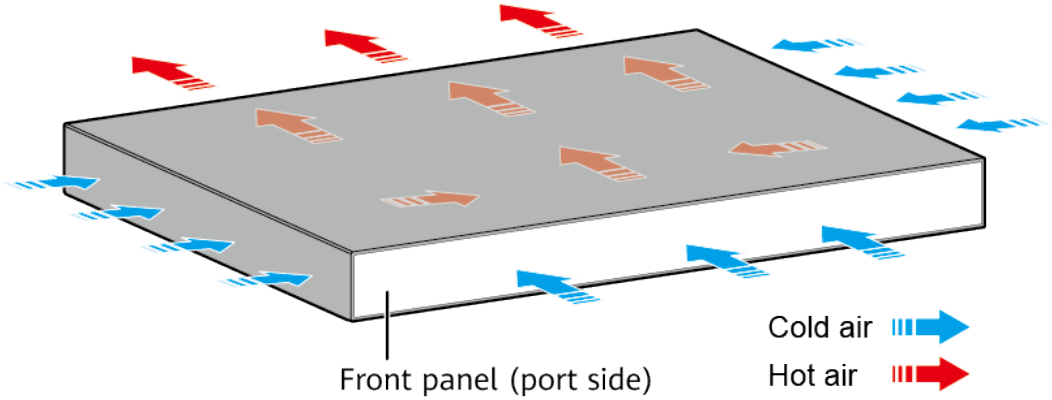
Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-594 Technical specifications of the S5735-S24ST4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.95 kg (10.91 lb)
Weight with packaging [kg(lb)]	6.85 kg (15.1 lb)
Typical power consumption [W]	31.6 W
Typical heat dissipation [BTU/hour]	107.82 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 48.70 W (with two 80 W AC power modules) • 85.78 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 166.17 (with two 80 W AC power modules) • 292.69 (with two 1200 W DC power modules)
Static power consumption [W]	14 W
MTBF [years]	112.03 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	38.1 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	26.1 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

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4.12.18 S5735-S24ST4XE-V2 (98012231-001)

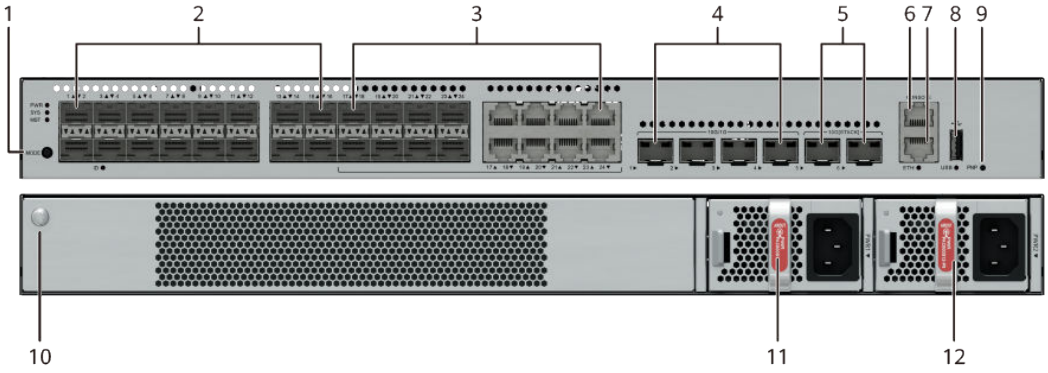
Overview

Table 4-595 Basic information about the S5735-S24ST4XE-V2

Item	Details
Description	S5735-S24ST4XE-V2 WB (24*GE SFP ports, 8 of which are dual-purpose 10/100/1000 or SFP, 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012231-001
Model	S5735-S24ST4XE-V2
First supported version	V600R023C00

Components

Figure 4-209 S5735-S24ST4XE-V2 appearance



1	One MODE button	2	Sixteen 100/1000BASE-X ports
3	Eight Combo ports (100/1000BASE-X optical ports and 10/100/1000BASE-T electrical ports)	4	Four 10GE SFP+ ports
5	Two stack ports	6	One console port
7	One ETH management port	8	One USB port

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9	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	10	Ground screw **NOTE** It is used with a **ground cable**.
11	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**	12	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**

Ports

Table 4-596 Ports on the S5735-S24ST4XE-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
Combo port (10/100/1000BASE-T + 100/1000BASE-X)	RJ45/SFP	A combo port refers to a pair of ports consisting of an optical Ethernet port and an electrical Ethernet port on the panel. Each combo port matches only one internal forwarding port. A combo port can be configured as an electrical port or an optical port, but only one port can be active at a time. When one port is active, the other port is shut down.	• **Ethernet cable** • **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-210 Indicators on the Switch

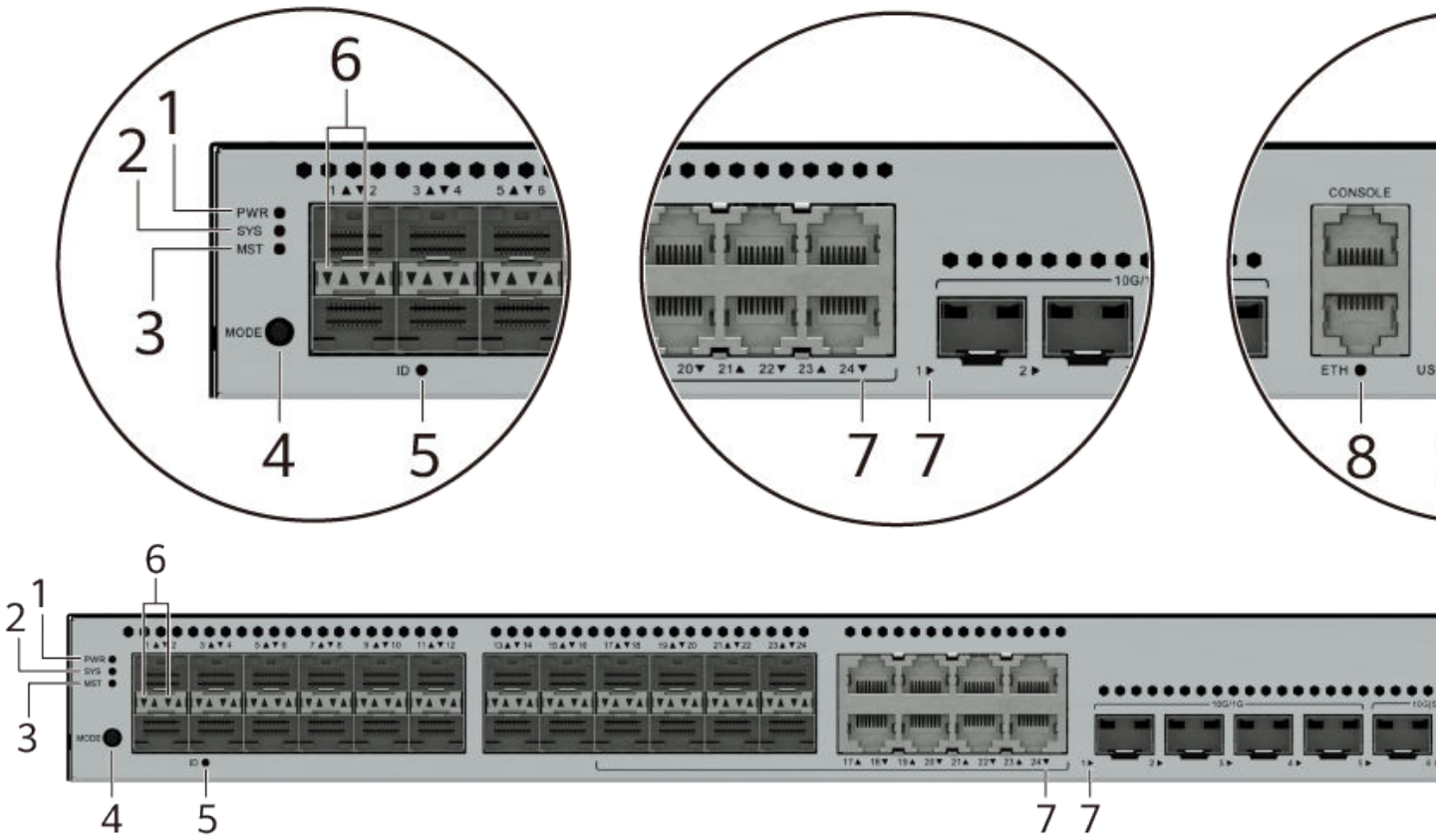

Table 4-597 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.

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No.	Indicator	Name	Color	Status	Description
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.

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No.	Indicator	Name	Color	Status	Description
4	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
5	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
6	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-598** and **Table 4-599**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Electrical or optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ETH	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

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No.	Indicator	Name	Color	Status	Description
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-598 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

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Table 4-599 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
MST stack mode (LINK indicator)	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
MST stack mode (ACT indicator)	-	Off	Port indicators do not show the stack ID of the switch.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	100/1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

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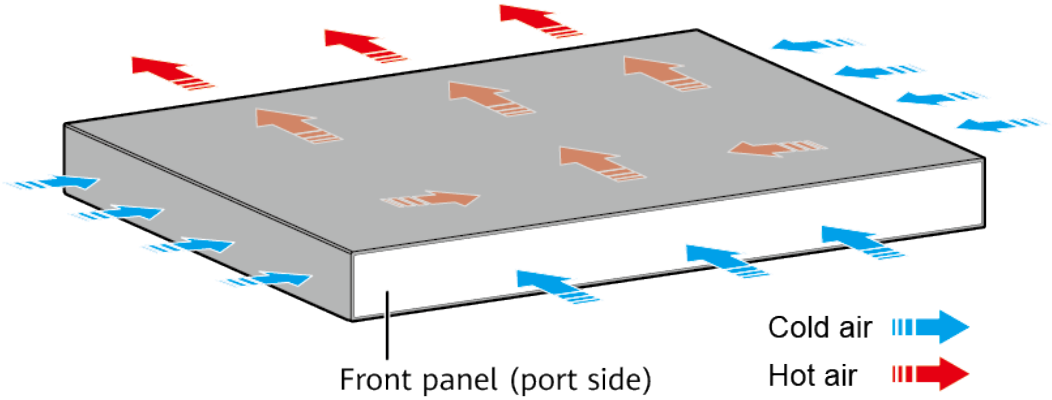
Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-600 Technical specifications of the S5735-S24ST4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.95 kg (10.91 lb)
Weight with packaging [kg(lb)]	6.85 kg (15.1 lb)
Typical power consumption [W]	31.6 W
Typical heat dissipation [BTU/hour]	107.82 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 48.70 W (with two 80 W AC power modules) • 85.78 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 166.17 (with two 80 W AC power modules) • 292.69 (with two 1200 W DC power modules)
Static power consumption [W]	14 W
MTBF [years]	112.03 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	38.1 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	26.1 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

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4.12.19 S5735-S48S4XE-V2 (98012232)

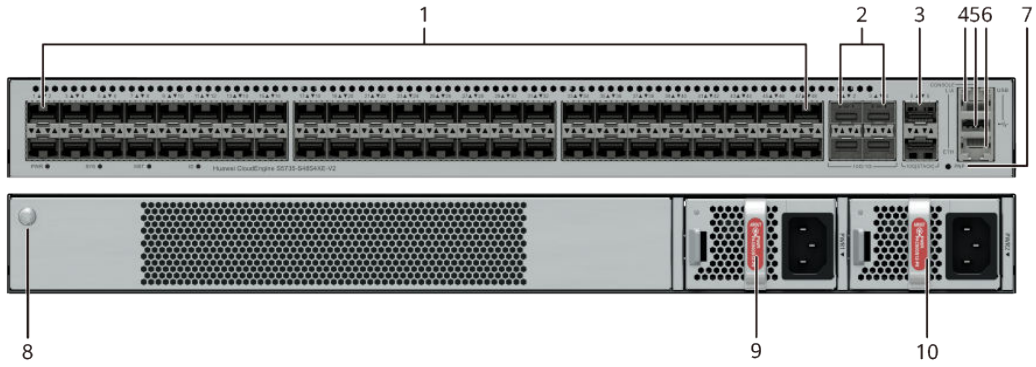
Overview

Table 4-601 Basic information about the S5735-S48S4XE-V2

Item	Details
Description	S5735-S48S4XE-V2 (48*GE SFP ports, 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012232
Model	S5735-S48S4XE-V2
First supported version	V600R023C00
Remarks	• When 25 or more GE optical modules with a transmission distance of 40 km or longer are installed on 1000BASE-X optical ports, power modules with at least 180 W power are required. • Copper modules can be installed on a maximum of 24 1000BASE-X optical ports.

Components

Figure 4-211 S5735-S48S4XE-V2 appearance



1	Forty-eight 100/1000BASE-X ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port

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5	One USB port	6	One ETH management port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PAC600S12-PB** • **PDC240S12-CN** (available since V600R024C00 version) • **PDC1K2S12-CE** When 1000BASE-X Ethernet optical ports use 25 or more GE optical modules with a distance of 40 km or longer, a power module with a minimum power of 180 W is required.	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PAC600S12-PB** • **PDC240S12-CN** (available since V600R024C00 version) • **PDC1K2S12-CE** When 1000BASE-X Ethernet optical ports use 25 or more GE optical modules with a distance of 40 km or longer, a power module with a minimum power of 180 W is required.

Ports

Table 4-602 Ports on the S5735-S48S4XE-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-212 Indicators on the Switch

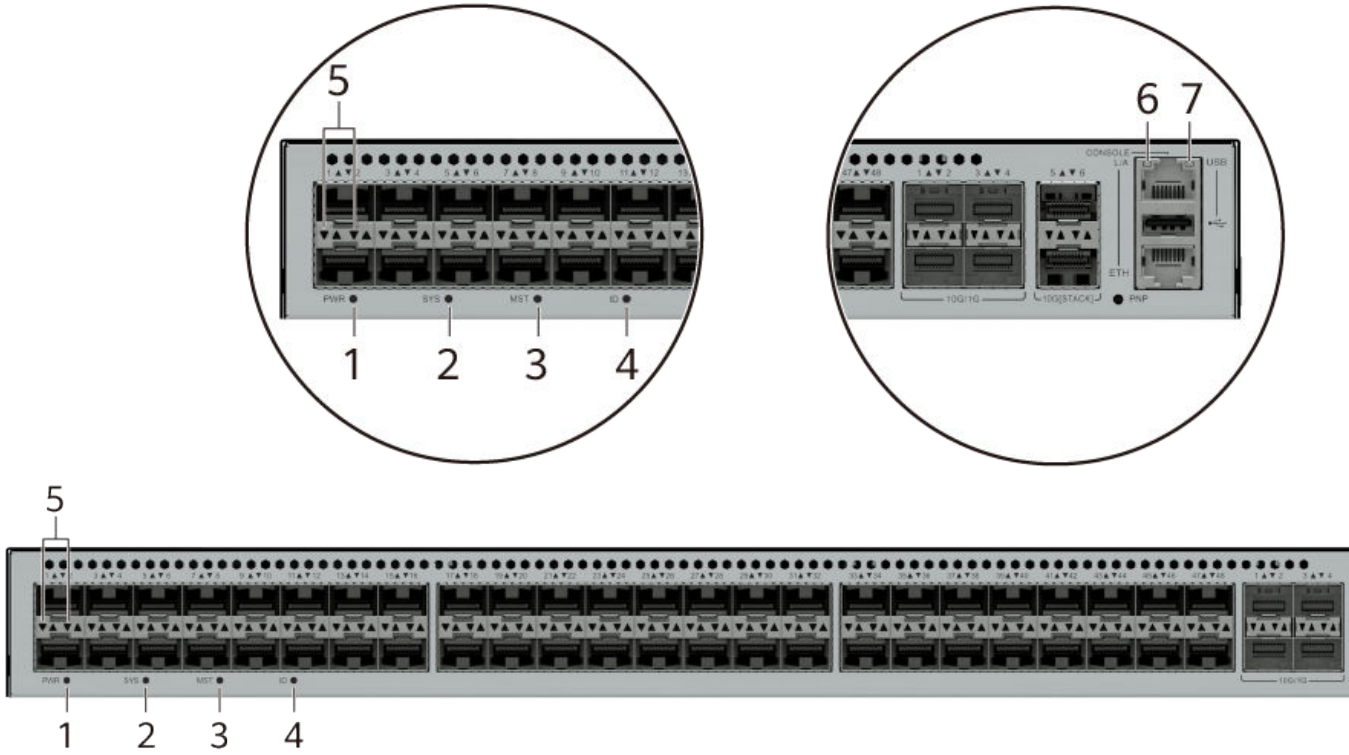

Table 4-603 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.

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No.	Indicator	Name	Color	Status	Description
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
4	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
5	-	Service port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-604**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	The ETH port is sending or receiving data.
7	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-604 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s. • 100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 100/1000BASE-X port: The port is operating at 1000 Mbit/s.

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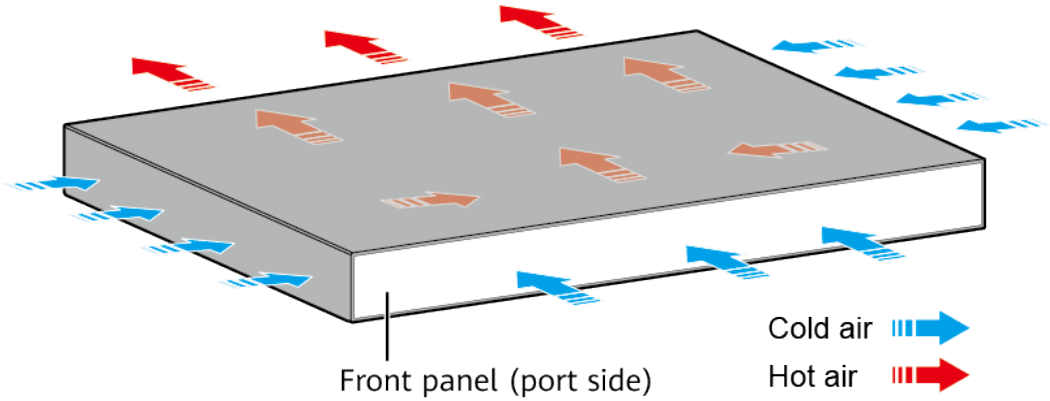
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-605 Technical specifications of the S5735-S48S4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.2 kg (11.46 lb)

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Item	Specification
Weight with packaging [kg(lb)]	7.1 kg (15.65 lb)
Typical power consumption [W]	72.3 W
Typical heat dissipation [BTU/hour]	246.69 BTU/hour
Maximum power consumption [W]	• 96.40 W (with two 80 W AC power modules) • 104.70 W (with two 180 W AC power modules) • 130.05 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 328.93 (with two 80 W AC power modules) • 357.25 (with two 180 W AC power modules) • 443.74 (with two 1200 W DC power modules)
Static power consumption [W]	31.5 W
MTBF [years]	78.95 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	43.8 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	31.80 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).

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Item	Specification
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.20 S5735-S48S4XE-V2 (98012232-001)

Overview

Table 4-606 Basic information about the S5735-S48S4XE-V2

Item	Details
Description	S5735-S48S4XE-V2 WB (48*GE SFP ports, 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012232-001
Model	S5735-S48S4XE-V2
First supported version	V600R023C00
Remarks	• When 25 or more GE optical modules with a transmission distance of 40 km or longer are installed on 1000BASE-X optical ports, power modules with at least 180 W power are required. • Copper modules can be installed on a maximum of 24 1000BASE-X optical ports.

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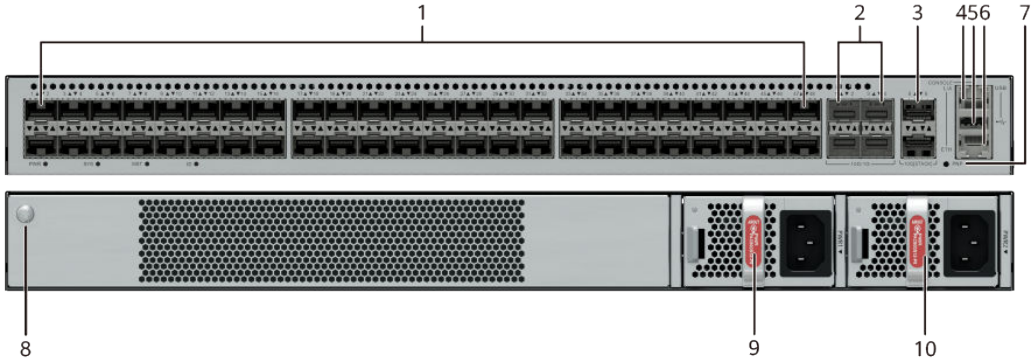
Components

Figure 4-213 S5735-S48S4XE-V2 appearance



1	Forty-eight 100/1000BASE-X ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One ETH management port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PAC600S12-PB** • **PDC240S12-CN** (available since V600R024C00 version) • **PDC1K2S12-CE** When 1000BASE-X Ethernet optical ports use 25 or more GE optical modules with a distance of 40 km or longer, a power module with a minimum power of 180 W is required.	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PAC600S12-PB** • **PDC240S12-CN** (available since V600R024C00 version) • **PDC1K2S12-CE** When 1000BASE-X Ethernet optical ports use 25 or more GE optical modules with a distance of 40 km or longer, a power module with a minimum power of 180 W is required.

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Ports

Table 4-607 Ports on the S5735-S48S4XE-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-214 Indicators on the Switch

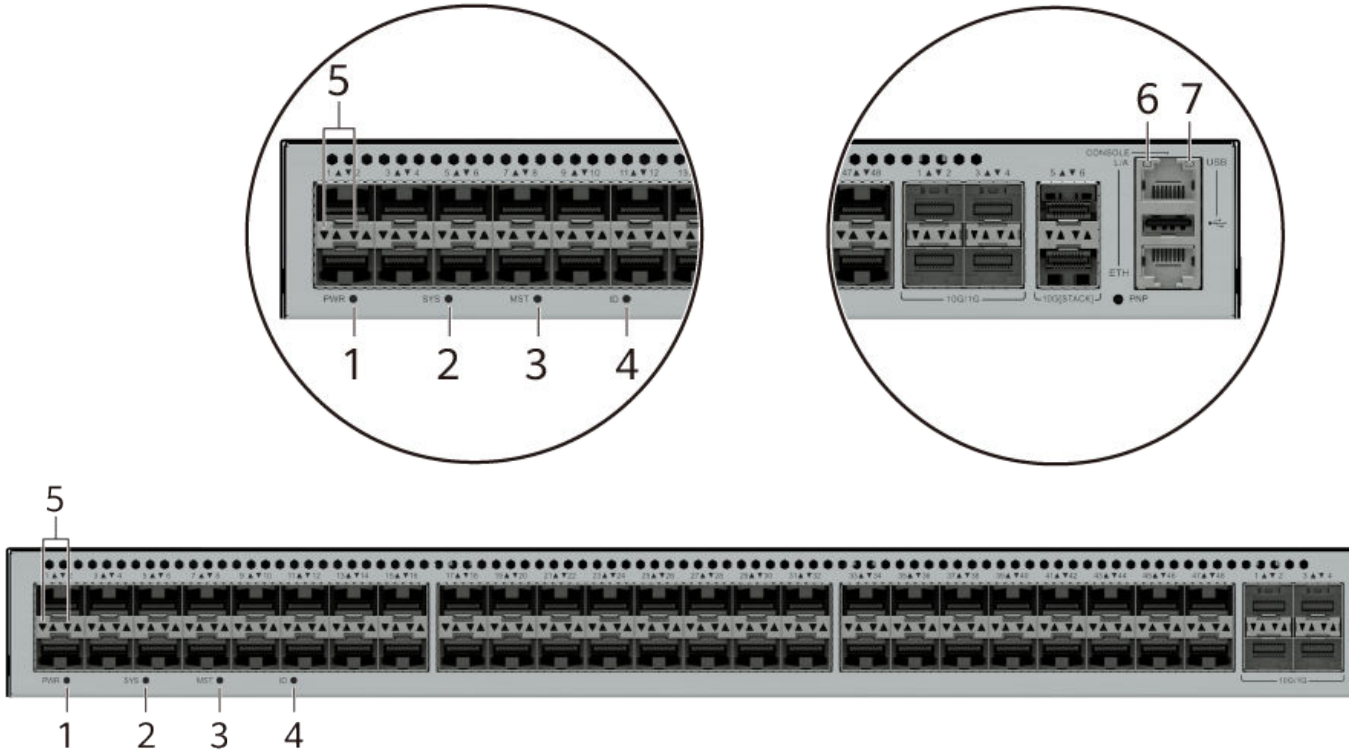

Table 4-608 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.

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No.	Indicator	Name	Color	Status	Description
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
4	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
5	-	Service port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-609**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	The ETH port is sending or receiving data.
7	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-609 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s. • 100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 100/1000BASE-X port: The port is operating at 1000 Mbit/s.

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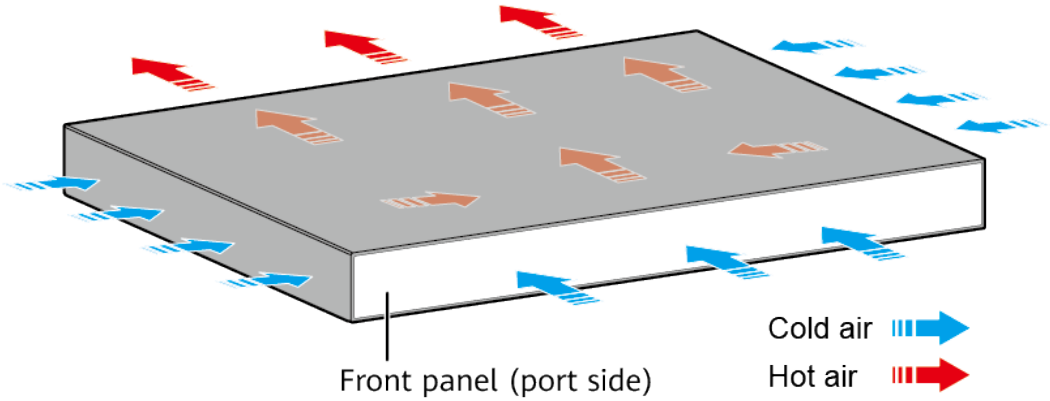
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-610 Technical specifications of the S5735-S48S4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.2 kg (11.46 lb)

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Item	Specification
Weight with packaging [kg(lb)]	7.1 kg (15.65 lb)
Typical power consumption [W]	72.3 W
Typical heat dissipation [BTU/hour]	246.69 BTU/hour
Maximum power consumption [W]	• 96.40 W (with two 80 W AC power modules) • 104.70 W (with two 180 W AC power modules) • 130.05 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 328.93 (with two 80 W AC power modules) • 357.25 (with two 180 W AC power modules) • 443.74 (with two 1200 W DC power modules)
Static power consumption [W]	31.5 W
MTBF [years]	78.95 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	43.8 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	31.80 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).

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Item	Specification
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.21 S5735-S24HS4XE-V2

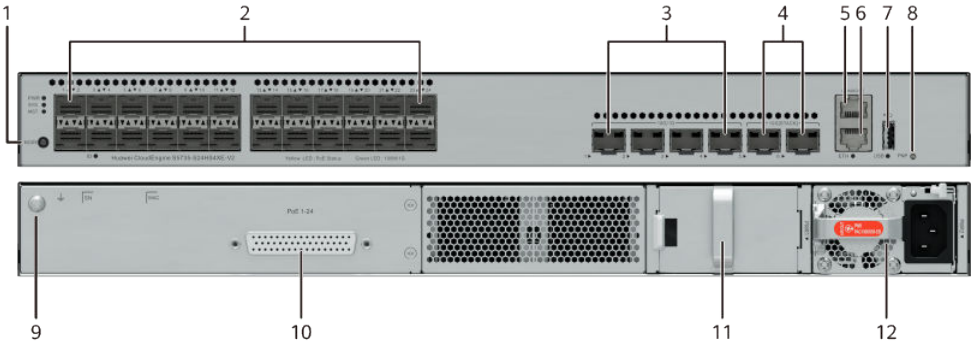
Overview

Table 4-611 Basic information about the S5735-S24HS4XE-V2

Item	Details
Description	S5735-S24HS4XE-V2 (24*bundled ports(24*GE SFP ports, 24*PoE++ ports(DB50)), 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012240
Model	S5735-S24HS4XE-V2
First supported version	V600R023C00

Components

Figure 4-215 S5735-S24HS4XE-V2 appearance



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1	One MODE button	2	Twenty-four 100/1000BASE-X ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One ETH management port
7	One USB port	8	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
9	Ground screw **NOTE** It is used with a **ground cable**.	10	PoE++ ports (DB50)
11	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	12	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

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Ports

Table 4-612 Ports on the S5735-S24HS4XE-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**
PoE++ port	DB50	The S5735-S24HS4XE-V2 is an optical/electrical hybrid switch. The switch provides one DB50 port, and the DB50 port provides 24 PoE++ ports. One PoE++ port and one 100/1000BASE-X Ethernet optical port can be used together.	• **DB50 cable** • **Hybrid cable terminal box (ES5MFMT00004)** • **Second-generation hybrid cable** **NOTE** When the S5735-S24HS4XE-V2 hybrid switch uses PoE power supply, the DB50 cable, hybrid cable terminal box (ES5MFMT00004), and second-generation hybrid cable must be used together.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-216 Indicators on the Switch

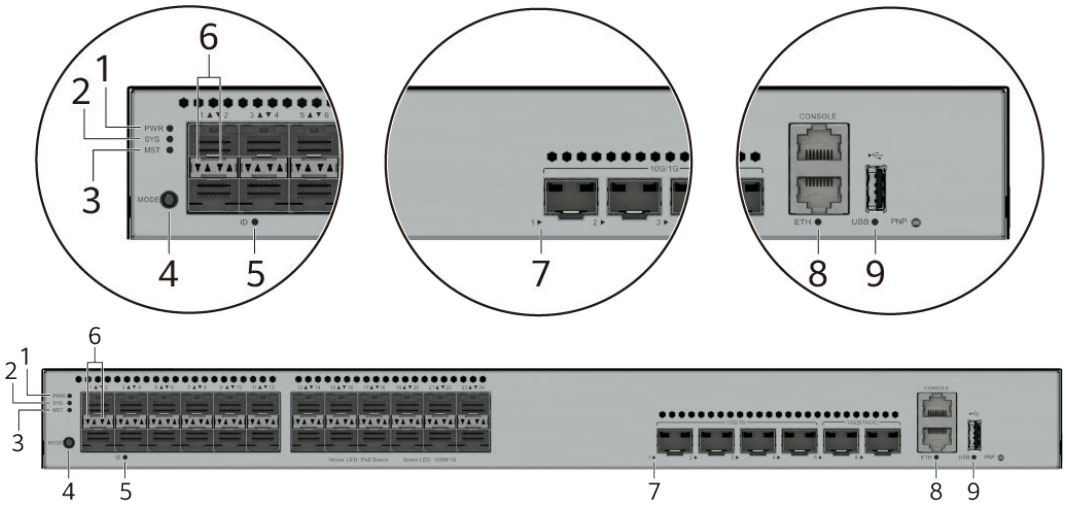

Table 4-613 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
5	ID	ID indicator	-	Off	The ID indicator is not used (default state).

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No.	Indicator	Name	Color	Status	Description
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
6	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the PoE indicator (yellow), and the one on the right is the LINK/ACT indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-614** and **Table 4-615**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ETH	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	The ETH port is sending or receiving data.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-614 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK/ACT indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Default mode (PoE indicator)	-	Off	The port is not providing power to a powered device (PD).
	Yellow	Steady on	The port is providing power to a PD.
	Yellow	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
MST stack mode (LINK/ACT indicator)	-	Off	Port indicators do not show the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
MST stack mode (PoE indicator)	-	Off	Port indicators do not show the stack ID of the switch.
Speed mode (LINK/ACT indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	100/1000BASE-X port: The port is operating at 1000 Mbit/s.

Table 4-615 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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Display Mode	Color	Status	Description
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-616 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	810 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
1000 W AC (110 V)	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 6

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1710 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1530 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
600 W AC (220 V)	–	475 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 5
600 W AC (110 V)	–	190 W	• 802.3af (15.4 W per port): 12 • 802.3at (30 W per port): 6 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
600 W AC (220 V)	600 W AC (220 V)	1045 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 5

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	475 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1350 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

When a hybrid optical-electrical port is used for PoE power supply, the power supply capability and distance vary according to hybrid cables with different cable diameters. You can use the **Central Switch-to-RU Cable Length Calculation Tool** to calculate the power supply distance of the hybrid cable in different scenarios.

NOTE

- The hybrid switch uses hybrid cables to connect to and supply power to APs or remote units that can receive power. (For details about the AP models to which hybrid cables can supply power, see the WLAN AP product documentation.)
- The hybrid switch cannot be connected to devices other than remote units or APs using hybrid cables.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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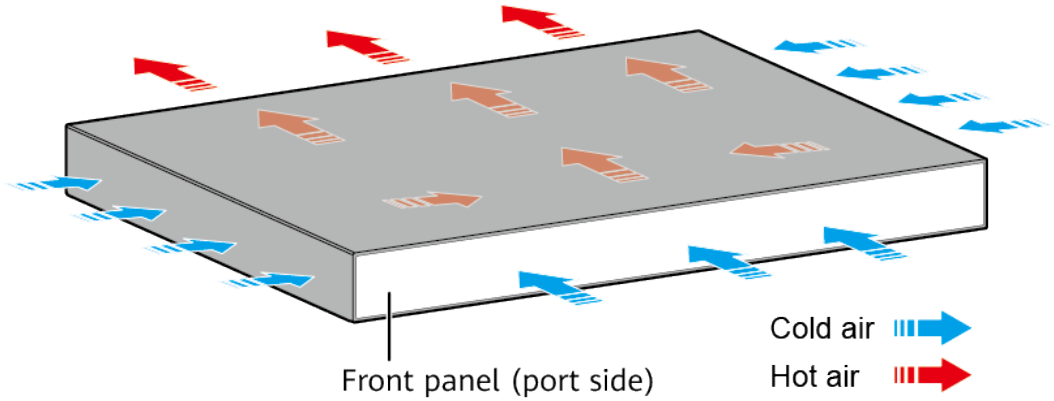

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-617 Technical specifications of the S5735-S24HS4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.4 kg (11.9 lb)
Weight with packaging [kg(lb)]	7.35 kg (16.2 lb)
Typical power consumption [W]	53.1 W
Typical heat dissipation [BTU/hour]	181.18 BTU/hour
Maximum power consumption [W]	• Without PoE: 72.72 W • Full PoE load: 1940.45 W (PoE: 1710 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 248.13 • Full PoE load: 6621.01

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Item	Specification
Static power consumption [W]	33 W
MTBF [years]	91.97 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	48.7 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	36.70 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.22 S5735-S48HS4XE-V2

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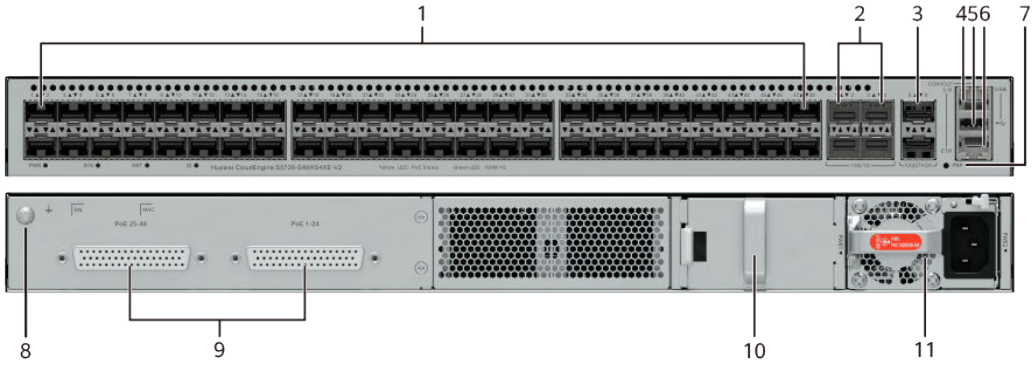
Overview

Table 4-618 Basic information about the S5735-S48HS4XE-V2

Item	Details
Description	S5735-S48HS4XE-V2 (48*bundled ports(48*GE SFP ports, 48*PoE++ ports(DB50)), 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012241
Model	S5735-S48HS4XE-V2
First supported version	V600R023C00
Remarks	Copper modules can be installed on a maximum of 24 1000BASE-X optical ports.

Components

Figure 4-217 S5735-S48HS4XE-V2 appearance



1	Forty-eight 100/1000BASE-X ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One ETH management port

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7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	PoE++ ports (DB50)	10	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-619 Ports on the S5735-S48HS4XE-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
PoE++ port	DB50	The S5735-S48HS4XE-V2 is an optical/electrical hybrid switch. It provides two DB50 ports, and each DB50 port provides 24 PoE++ ports. One PoE++ port and one 100/1000BASE-X port can be used together.	• **DB50 cable** • **Hybrid cable terminal box (ES5MFMT00004)** • **Second-generation hybrid cable** **NOTE** When the S5735-S24HS4XE-V2 hybrid switch uses PoE power supply, the DB50 cable, hybrid cable terminal box (ES5MFMT00004), and second-generation hybrid cable must be used together.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-218 Indicators on the Switch

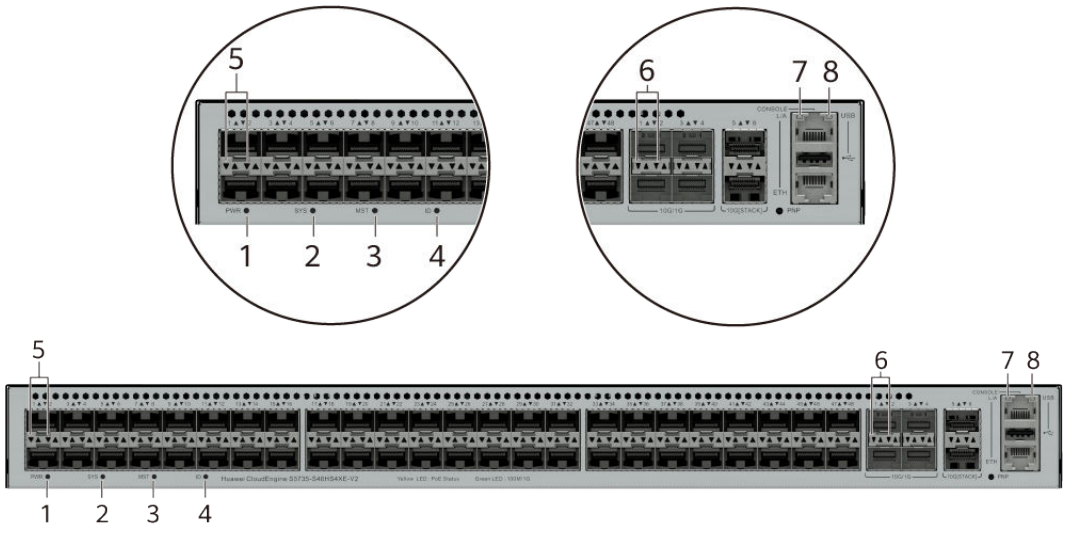

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Table 4-620 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
4	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
5	-	100/1000BASE-X optical port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the PoE indicator (yellow), and the one on the right is the LINK/ACT indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-621** and **Table 4-622**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
6	-	10GE optical port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			
7	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.

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No.	Indicator	Name	Color	Status	Description
			Red	Steady on	USB-based deployment fails.

Table 4-621 Description of 100/1000BASE-X optical port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK/ACT indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Default mode (PoE indicator)	-	Off	The port is not providing power to a powered device (PD).
	Yellow	Steady on	The port is providing power to a PD.
	Yellow	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode (LINK/ACT indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	100/1000BASE-X port: The port is operating at 1000 Mbit/s.

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Table 4-622 Description of 10GE optical port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-623 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	810 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	720 W	• 802.3af (15.4 W per port): 46 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1710 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28 • 802.3bt (90 W per port): 19
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1530 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 2530 • 802.3bt (90 W per port): 17
600 W AC (220 V)	–	475 W	• 802.3af (15.4 W per port): 30 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 5
600 W AC (110 V)	–	190 W	• 802.3af (15.4 W per port): 12 • 802.3at (30 W per port): 6 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	1045 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 34 • 802.3bt (60 W per port): 17 • 802.3bt (90 W per port): 11
600 W AC (110 V)	600 W AC (110 V)	475 W	• 802.3af (15.4 W per port): 30 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 5
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1350 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 45 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

When a hybrid optical-electrical port is used for PoE power supply, the power supply capability and distance vary according to hybrid cables with different cable diameters. You can use the **Central Switch-to-RU Cable Length Calculation Tool** to calculate the power supply distance of the hybrid cable in different scenarios.

NOTE

- The hybrid switch uses hybrid cables to connect to and supply power to APs or remote units that can receive power. (For details about the AP models to which hybrid cables can supply power, see the WLAN AP product documentation.)
- The hybrid switch cannot be connected to devices other than remote units or APs using hybrid cables.

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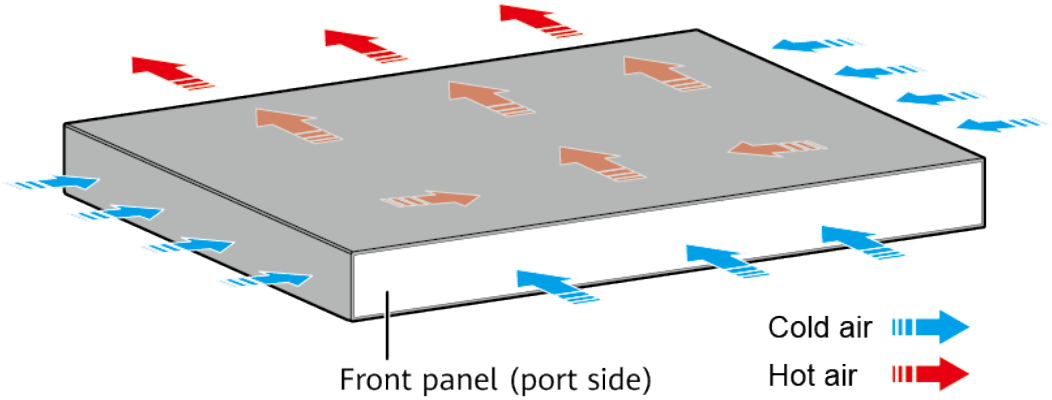
Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-624 Technical specifications of the S5735-S48HS4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.95 kg (13.12 lb)
Weight with packaging [kg(lb)]	7.85 kg (17.31 lb)
Typical power consumption [W]	84.7 W
Typical heat dissipation [BTU/hour]	289 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 113.62 W • Full PoE load: 1998.52 W (PoE: 1710 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 387.68 • Full PoE load: 6819.15
Static power consumption [W]	48 W
MTBF [years]	60.98 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	48.7 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	36.70 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.12.23 S5735-S24T8J4XE-XA-V2

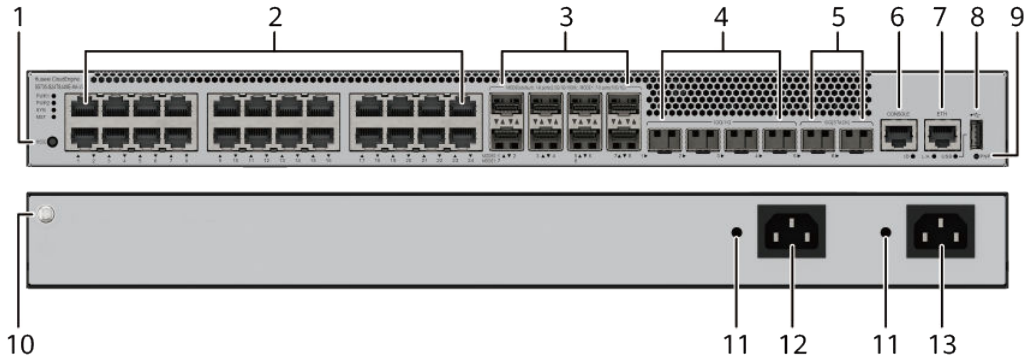
Overview

Table 4-625 Basic information about the S5735-S24T8J4XE-XA-V2

Item	Details
Description	S5735-S24T8J4XE-XA-V2 (24*10/100/1000BASE-T ports, 8*2.5GE/GE/100M SFP ports (or 2*10GE SFP+ ports), 4*10GE SFP+ ports, 2*12GE stack ports, dual built-in AC power)
Part Number	98012431
Model	S5735-S24T8J4XE-XA-V2
First supported version	V600R024C00

Components

Figure 4-219 S5735-S24T8J4XE-XA-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports

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3	Eight 2.5GE SFP ports **NOTE** You can run the **port combination-mode** command to switch between two rate modes: • MODE0: Ports 1 to 8 support the rate of 2.5 Gbit/s, 1 Gbit/s, or 100 Mbit/s, but do not support the rate of 10 Gbit/s. • MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 in MODE0) support the rate of 10 Gbit/s or 1 Gbit/s, but do not support the rate of 2.5 Gbit/s or 100 Mbit/s. The other six ports are unavailable.	4	Four 10GE SFP+ ports
5	Two stack ports	6	One console port
7	One ETH management port	8	One USB port
9	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	10	Ground screw **NOTE** It is used with a **ground cable**.
11	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	12	AC socket 1 **NOTE** It is used with an **AC power cable**.
13	AC socket 2 **NOTE** It is used with an **AC power cable**.	-	-

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Ports

Table 4-626 Ports on the S5735-S24T8J4XE-XA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
2.5GE/GE/100M SFP optical port	SFP	A 2.5GE/GE/100M SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s. Two rate modes are supported: MODE0: Ports 1 to 8 support the rate of 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s, but do not support the rate of 10 Gbit/s. MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 of MODE0) support the rate of 1000 Mbit/s or 10 Gbit/s, but do not support the rate of 100 Mbit/s or 2.5 Gbit/s. The other six ports are unavailable.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-220 Indicators on the Switch

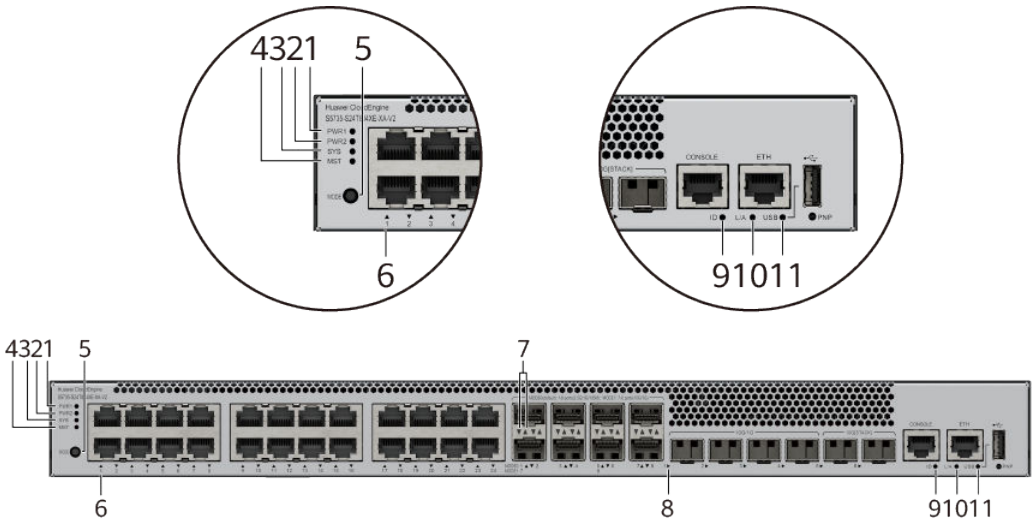

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Table 4-627 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Power 1 indicator	-	Off	No power is supplied to AC socket 1.
			Green	Steady on	The power supply of AC socket 1 is normal.
2	PWR 2	Power 2 indicator	-	Off	No power is supplied to AC socket 2.
			Green	Steady on	The power supply of AC socket 2 is normal.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Electrical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-628** and **Table 4-629**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports.		

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No.	Indicator	Name	Color	Status	Description
9	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.
11	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-628 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Table 4-629 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.

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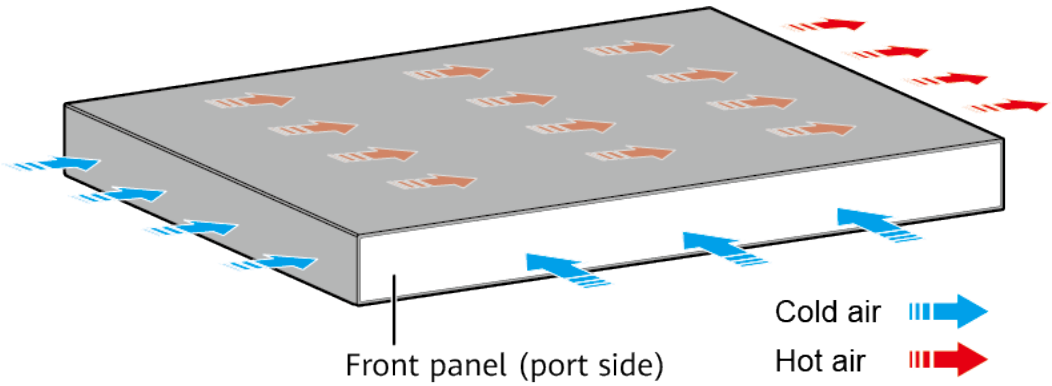
Display Mode	Color	Status	Description
Speed mode (LINK indicator) **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 100M/1GE/2.5GE SFP+ port: The port is operating at 100 Mbit/s or 1 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 100M/1GE/2.5GE SFP+ port: The port is operating at 2.5 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Power Supply System

The switch has two built-in AC power modules for power redundancy.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-630 Technical specifications of the S5735-S24T8J4XE-XA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.40 kg (9.7 lb)
Weight with packaging [kg(lb)]	6.85 kg (15.1 lb)
Typical power consumption [W]	41.18 W
Typical heat dissipation [BTU/hour]	140.51 BTU/hour
Maximum power consumption [W]	53.12 W
Maximum heat dissipation [BTU/hour]	181.25 BTU/hour
Static power consumption [W]	22.45 W
MTBF [years]	59.93 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	29.9 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Dual built-in power modules in 1+1 backup mode

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	4.0 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV

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Item	Specification
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.24 S5735-S48T4XE-XA-V2

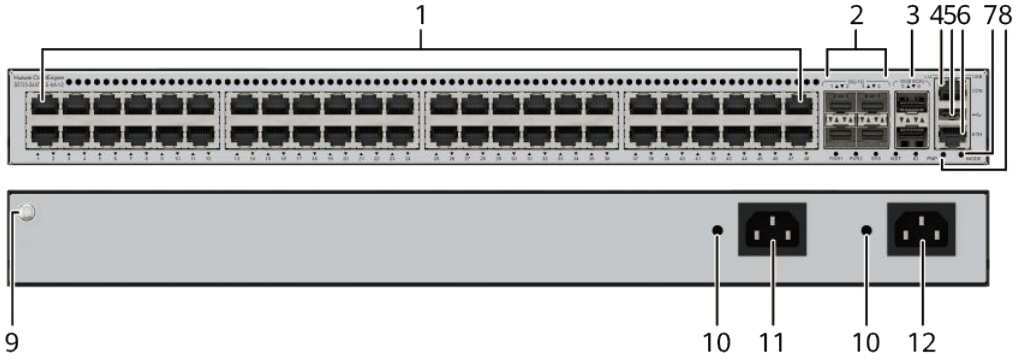
Overview

Table 4-631 Basic information about the S5735-S48T4XE-XA-V2

Item	Details
Description	S5735-S48T4XE-XA-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, dual built-in AC power)
Part Number	98012436
Model	S5735-S48T4XE-XA-V2
First supported version	V600R024C00

Components

Figure 4-221 S5735-S48T4XE-XA-V2 appearance



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1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One ETH management port
7	One MODE button	8	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
9	Ground screw **NOTE** It is used with a **ground cable**.	10	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.
11	AC socket 1 **NOTE** It is used with an **AC power cable**.	12	AC socket 2 **NOTE** It is used with an **AC power cable**.

Ports

Table 4-632 Ports on the S5735-S48T4XE-XA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

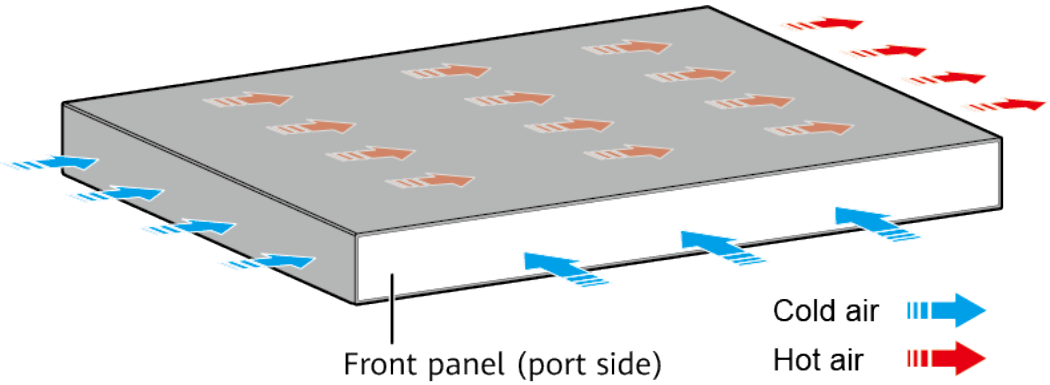
The S5735-S48T4XE-XA-V2 has similar indicators to those on the S5735-S24T8J4XE-XA-V2. For details, see the S5735-S24T8J4XE-XA-V2.

Power Supply System

The switch has two built-in AC power modules for power redundancy.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.



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NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-633 Technical specifications of the S5735-S48T4XE-XA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.39 kg (9.68 lb)
Weight with packaging [kg(lb)]	6.82 kg (15.04 lb)
Typical power consumption [W]	39.10 W
Typical heat dissipation [BTU/hour]	133.41 BTU/hour
Maximum power consumption [W]	53.74 W
Maximum heat dissipation [BTU/hour]	183.37 BTU/hour
Static power consumption [W]	18.45 W
MTBF [years]	43.19 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	29.9 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2

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Item	Specification
Redundant power supply	Dual built-in power modules in 1+1 backup mode
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	4.0 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.25 S5735-S24T4XEZ-V2

Overview

Table 4-634 Basic information about the S5735-S24T4XEZ-V2

Item	Details
Description	S5735-S24T4XEZ-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, expansion card slot, without power module)
Part Number	98012428
Model	S5735-S24T4XEZ-V2
First supported version	V600R024C00

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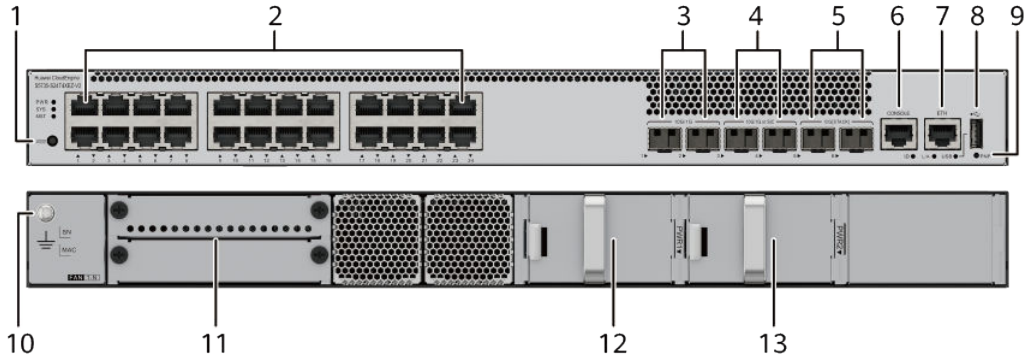
Components

Figure 4-222 S5735-S24T4XEZ-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Two 10GE SFP+ ports	4	Two 10GE SFP+ ports **NOTE** The two ports cannot be used together with the rear card.
5	Two stack ports	6	One console port
7	One ETH management port	8	One USB port
9	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	10	Ground screw **NOTE** It is used with a **ground cable**.
11	Card slot **NOTE** The card slot is reserved and cannot be used currently.	12	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN**

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13	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN**	-	-

Ports

Table 4-635 Ports on the S5735-S24T4XEZ-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S24T4XEZ-V2 has similar indicators to those on the S5735-S24P8J4XEZ-V2 except that the S5735-S24T4XEZ-V2 does not have a PoE mode indicator. For details, see the S5735-S24P8J4XEZ-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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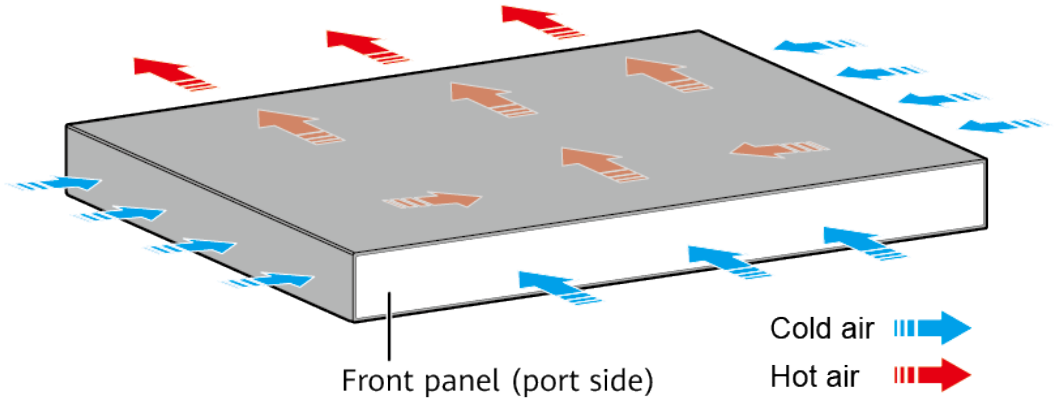

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-636 Technical specifications of the S5735-S24T4XEZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.80 kg (10.58 lb)
Weight with packaging [kg(lb)]	7.25 kg (15.98 lb)
Typical power consumption [W]	34.01 W
Typical heat dissipation [BTU/hour]	116.05 BTU/hour
Maximum power consumption [W]	• 40.40 W (with two 80 W AC power modules) • 38.74 W (with two 240 W DC power modules)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• 138.85 (with two 80 W AC power modules) • 132.18 (with two 240 W DC power modules)
Static power consumption [W]	22.14 W
MTBF [years]	57.69 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.26 S5735-S24T8J4XEZ-V2 (98012429)

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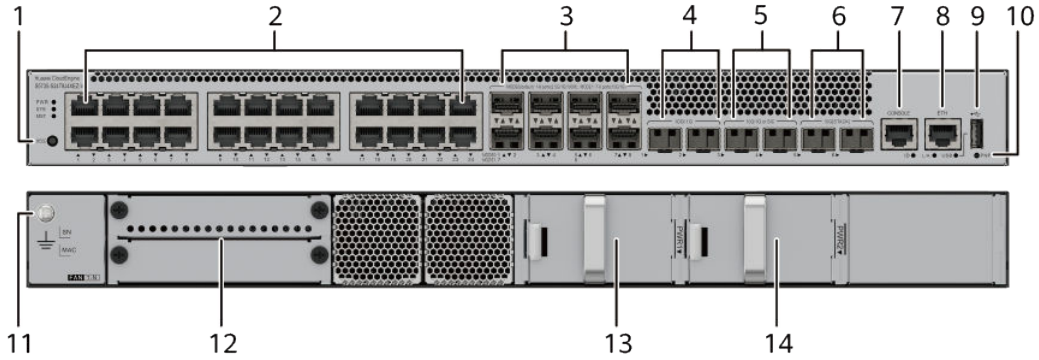
Overview

Table 4-637 Basic information about the S5735-S24T8J4XEZ-V2

Item	Details
Description	S5735-S24T8J4XEZ-V2 (24*10/100/1000BASE-T ports, 8*2.5GE/GE/100M SFP ports (or 2*10GE SFP+ ports), 4*10GE SFP+ ports, 2*12GE stack ports, expansion card slot, without power module)
Part Number	98012429
Model	S5735-S24T8J4XEZ-V2
First supported version	V600R024C00

Components

Figure 4-223 S5735-S24T8J4XEZ-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports

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3	Eight 2.5GE SFP ports **NOTE** You can run the **port combination-mode** command to switch between two rate modes: • MODE0: Ports 1 to 8 support the rate of 2.5 Gbit/s, 1 Gbit/s, or 100 Mbit/s, but do not support the rate of 10 Gbit/s. • MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 in MODE0) support the rate of 10 Gbit/s or 1 Gbit/s, but do not support the rate of 2.5 Gbit/s or 100 Mbit/s. The other six ports are unavailable.	4	Two 10GE SFP+ ports
5	Two 10GE SFP+ ports **NOTE** The two ports cannot be used together with the rear card.	6	Two stack ports
7	One console port	8	One ETH management port
9	One USB port	10	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
11	Ground screw **NOTE** It is used with a **ground cable**.	12	Card slot **NOTE** The card slot is reserved and cannot be used currently.
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN**

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Ports

Table 4-638 Ports on the S5735-S24T8J4XEZ-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
2.5GE/GE/100M SFP optical port	SFP	A 2.5GE/GE/100M SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s. Two rate modes are supported: MODE0: Ports 1 to 8 support the rate of 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s, but do not support the rate of 10 Gbit/s. MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 of MODE0) support the rate of 1000 Mbit/s or 10 Gbit/s, but do not support the rate of 100 Mbit/s or 2.5 Gbit/s. The other six ports are unavailable.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S24T8J4XEZ-V2 has similar indicators to those on the S5735-S24P8J4XEZ-V2 except that the S5735-S24T8J4XEZ-V2 does not have a PoE mode indicator. For details, see the S5735-S24P8J4XEZ-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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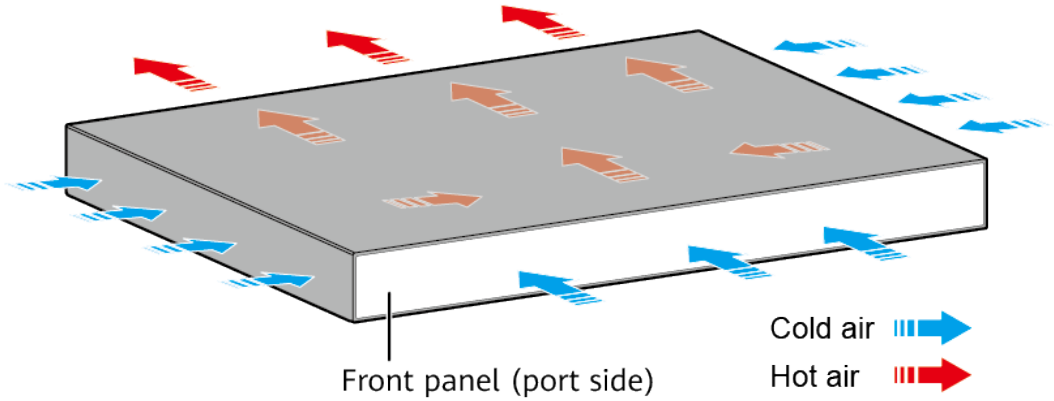

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-639 Technical specifications of the S5735-S24T8J4XEZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.90 kg (10.8 lb)
Weight with packaging [kg(lb)]	7.35 kg (16.2 lb)
Typical power consumption [W]	52.51 W
Typical heat dissipation [BTU/hour]	179.17 BTU/hour
Maximum power consumption [W]	• 62.29 W (with two 80 W AC power modules) • 61.77 W (with two 240 W DC power modules)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• 212.54 (with two 80 W AC power modules) • 210.77 (with two 240 W DC power modules)
Static power consumption [W]	34.35 W
MTBF [years]	57.88 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.27 S5735-S24T8J4XEZ-V2 (98012429-001)

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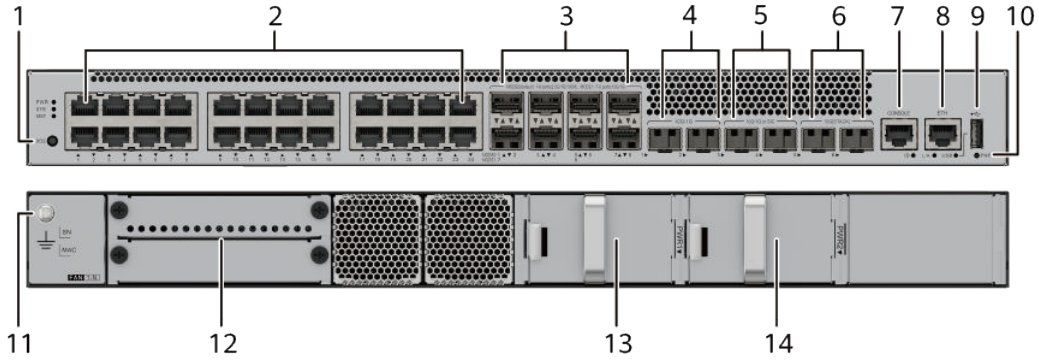
Overview

Table 4-640 Basic information about the S5735-S24T8J4XEZ-V2

Item	Details
Description	S5735-S24T8J4XEZ-V2 WB (24*10/100/1000BASE-T ports, 8*2.5GE SFP ports (or 2*10GE SFP+ ports), 4*10GE SFP+ ports, 2*12GE stack ports, expansion card slot, without power module)
Part Number	98012429-001
Model	S5735-S24T8J4XEZ-V2
First supported version	V600R024C00

Components

Figure 4-224 S5735-S24T8J4XEZ-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports

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3	Eight 2.5GE SFP ports **NOTE** You can run the **port combination-mode** command to switch between two rate modes: • MODE0: Ports 1 to 8 support the rate of 2.5 Gbit/s, 1 Gbit/s, or 100 Mbit/s, but do not support the rate of 10 Gbit/s. • MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 in MODE0) support the rate of 10 Gbit/s or 1 Gbit/s, but do not support the rate of 2.5 Gbit/s or 100 Mbit/s. The other six ports are unavailable.	4	Two 10GE SFP+ ports
5	Two 10GE SFP+ ports **NOTE** The two ports cannot be used together with the rear card.	6	Two stack ports
7	One console port	8	One ETH management port
9	One USB port	10	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
11	Ground screw **NOTE** It is used with a **ground cable**.	12	Card slot **NOTE** The card slot is reserved and cannot be used currently.
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN**

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Ports

Table 4-641 Ports on the S5735-S24T8J4XEZ-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
2.5GE/GE/100M SFP optical port	SFP	A 2.5GE/GE/100M SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s. Two rate modes are supported: MODE0: Ports 1 to 8 support the rate of 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s, but do not support the rate of 10 Gbit/s. MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 of MODE0) support the rate of 1000 Mbit/s or 10 Gbit/s, but do not support the rate of 100 Mbit/s or 2.5 Gbit/s. The other six ports are unavailable.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S24T8J4XEZ-V2 has similar indicators to those on the S5735-S24P8J4XEZ-V2 except that the S5735-S24T8J4XEZ-V2 does not have a PoE mode indicator. For details, see the S5735-S24P8J4XEZ-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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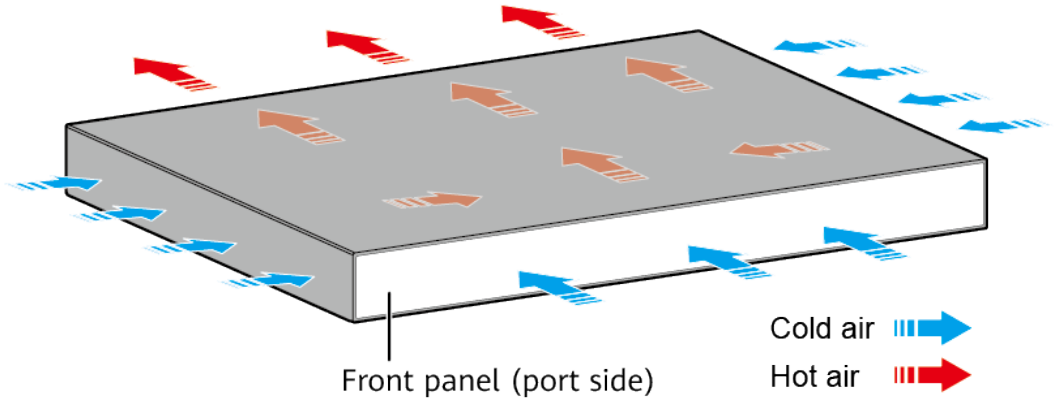

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-642 Technical specifications of the S5735-S24T8J4XEZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.90 kg (10.8 lb)
Weight with packaging [kg(lb)]	7.35 kg (16.2 lb)
Typical power consumption [W]	52.51 W
Typical heat dissipation [BTU/hour]	179.17 BTU/hour
Maximum power consumption [W]	• 62.29 W (with two 80 W AC power modules) • 61.77 W (with two 240 W DC power modules)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• 212.54 (with two 80 W AC power modules) • 210.77 (with two 240 W DC power modules)
Static power consumption [W]	34.35 W
MTBF [years]	57.88 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.28 S5735-S24P4XEZ-V2

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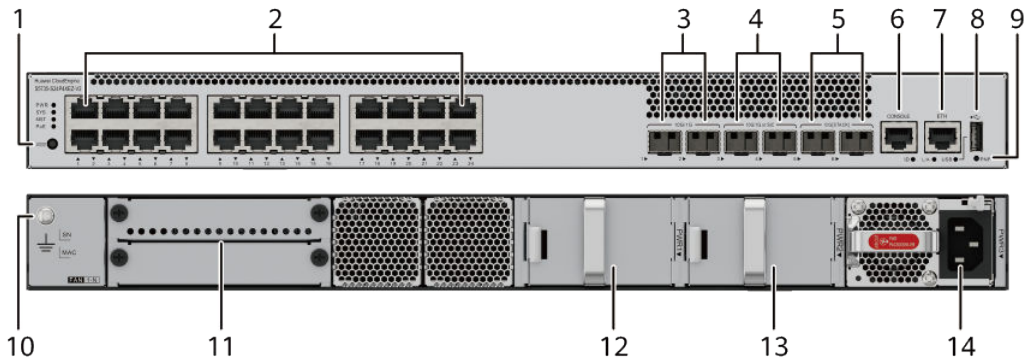
Overview

Table 4-643 Basic information about the S5735-S24P4XEZ-V2

Item	Details
Description	S5735-S24P4XEZ-V2 (24*10/100/1000BASE-T ports (PoE+), 4*10GE SFP+ ports, 2*12GE stack ports, expansion card slot, without power module)
Part Number	98012432
Model	S5735-S24P4XEZ-V2
First supported version	V600R024C00

Components

Figure 4-225 S5735-S24P4XEZ-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Two 10GE SFP+ ports	4	Two 10GE SFP+ ports **NOTE** The two ports cannot be used together with the rear card.
5	Two stack ports	6	One console port
7	One ETH management port	8	One USB port

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9	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	10	Ground screw **NOTE** It is used with a **ground cable**.
11	Card slot **NOTE** The card slot is reserved and cannot be used currently.	12	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
13	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

Ports

Table 4-644 Ports on the S5735-S24P4XEZ-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S24P4XEZ-V2 has similar indicators to those on the S5735-S24P8J4XEZ-V2. For details, see the S5735-S24P8J4XEZ-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-645 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	774 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W DC	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	–	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	247 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	817 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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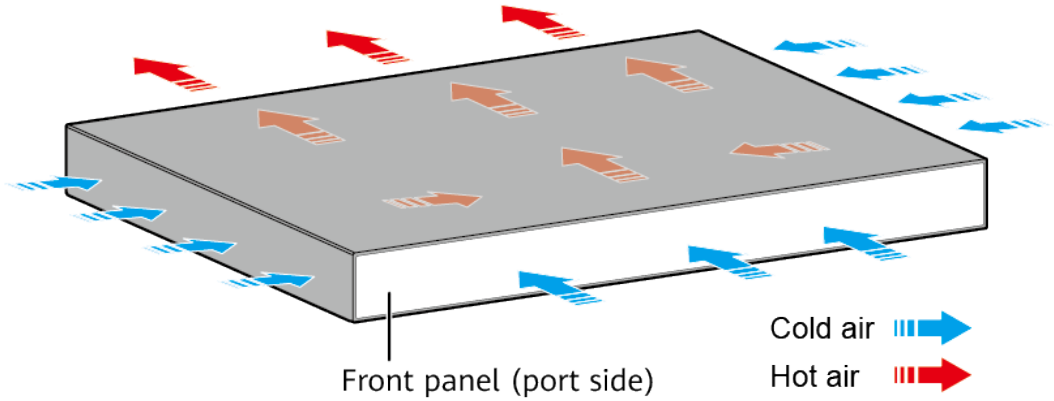

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-646 Technical specifications of the S5735-S24P4XEZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.95 kg (10.91 lb)
Weight with packaging [kg(lb)]	7.40 kg (16.31 lb)
Typical power consumption [W]	35.98 W
Typical heat dissipation [BTU/hour]	122.77 BTU/hour

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Item	Specification
Maximum power consumption [W]	- Without PoE: 50.60 W (with two 600 W AC power modules) 61.10 W (with two 1000 W AC power modules) 69.90 W (with two 1000 W DC power modules) - Full PoE load: 972.00 W (PoE: 840 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 172.65 (with two 600 W AC power modules) 208.48 (with two 1000 W AC power modules) 238.51 (with two 1000 W DC power modules) - Full PoE load: 3316.56 (PoE: 2866.16, with three 1000 W AC power modules)
Static power consumption [W]	30.43 W
MTBF [years]	57.72 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 49 dBA Three 1000 W AC PoE power modules with 30% load: 48.5 dBA Three 1000 W DC PoE power modules with 30% load: 47.3 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 37 dBA Three 1000 W AC PoE power modules with 30% load: 36.9 dBA Three 1000 W DC PoE power modules with 30% load: 35.5 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported

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Item	Specification
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.29 S5735-S24P8J4XEZ-V2 (98012433)

Overview

Table 4-647 Basic information about the S5735-S24P8J4XEZ-V2

Item	Details
Description	S5735-S24P8J4XEZ-V2 (24*10/100/1000BASE-T ports (PoE+), 8*2.5GE/GE/100M SFP ports (or 2*10GE SFP+ ports), 4*10GE SFP+ ports, 2*12GE stack ports, expansion card slot, without power module)
Part Number	98012433
Model	S5735-S24P8J4XEZ-V2
First supported version	V600R024C00

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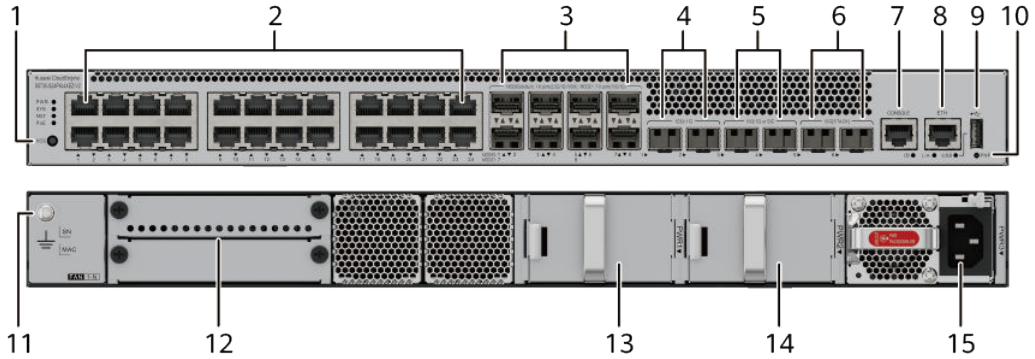
Components

Figure 4-226 S5735-S24P8J4XEZ-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Eight 2.5GE SFP ports **NOTE** You can run the **port combination-mode** command to switch between two rate modes: • MODE0: Ports 1 to 8 support the rate of 2.5 Gbit/s, 1 Gbit/s, or 100 Mbit/s, but do not support the rate of 10 Gbit/s. • MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 in MODE0) support the rate of 10 Gbit/s or 1 Gbit/s, but do not support the rate of 2.5 Gbit/s or 100 Mbit/s. The other six ports are unavailable.	4	Two 10GE SFP+ ports
5	Two 10GE SFP+ ports **NOTE** The two ports cannot be used together with the rear card.	6	Two stack ports
7	One console port	8	One ETH management port

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9	One USB port	10	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
11	Ground screw **NOTE** It is used with a **ground cable**.	12	Card slot **NOTE** The card slot is reserved and cannot be used currently.
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-648 Ports on the S5735-S24P8J4XEZ-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
2.5GE/GE/100M SFP optical port	SFP	A 2.5GE/GE/100M SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s. Two rate modes are supported: MODE0: Ports 1 to 8 support the rate of 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s, but do not support the rate of 10 Gbit/s. MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 of MODE0) support the rate of 1000 Mbit/s or 10 Gbit/s, but do not support the rate of 100 Mbit/s or 2.5 Gbit/s. The other six ports are unavailable.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-227 Indicators on the Switch

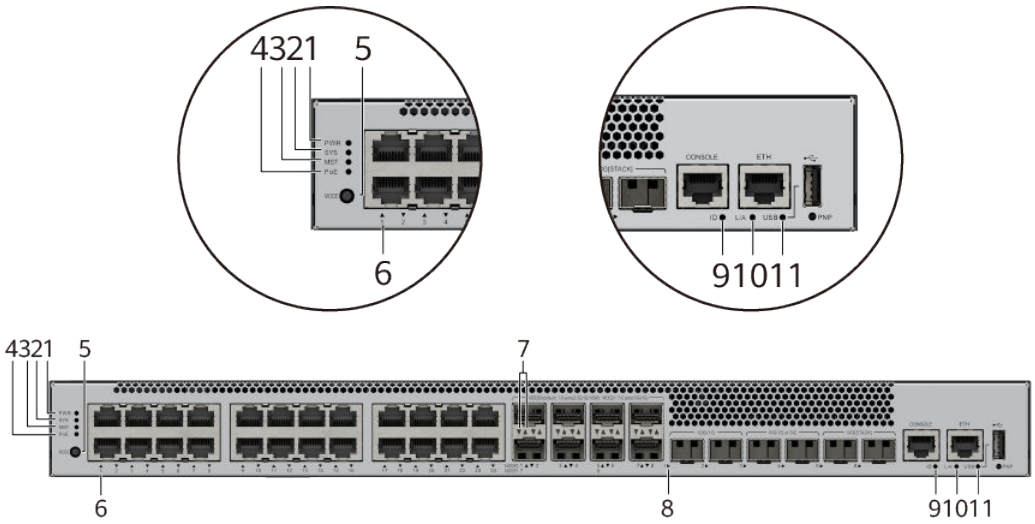

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Table 4-649 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Electrical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-650** and **Table 4-651**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports.		
9	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

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No.	Indicator	Name	Color	Status	Description
11	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-650 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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Display Mode	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Table 4-651 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.

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Display Mode	Color	Status	Description
Speed mode (LINK indicator) **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 100M/1GE/2.5GE SFP+ port: The port is operating at 100 Mbit/s or 1 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 100M/1GE/2.5GE SFP+ port: The port is operating at 2.5 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-652 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V)	–	–	774 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W DC	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	–	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	–	–	247 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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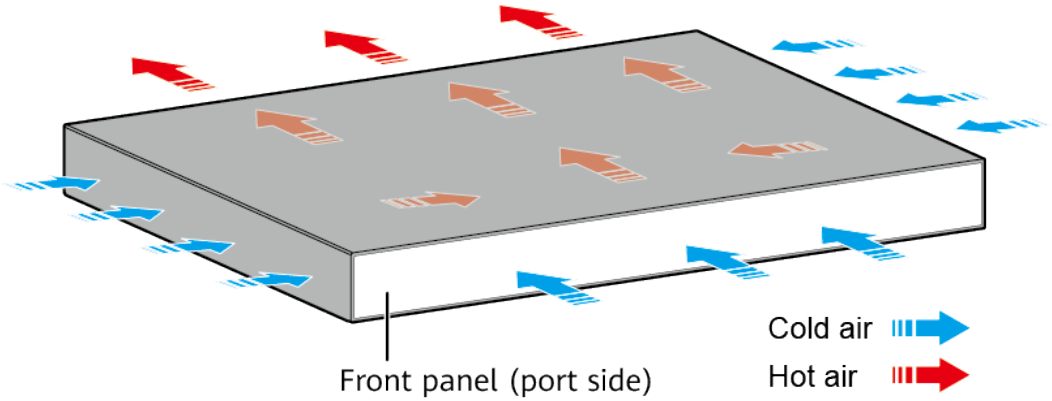
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	817 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-653 Technical specifications of the S5735-S24P8J4XEZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.14 kg (11.33 lb)
Weight with packaging [kg(lb)]	7.59 kg (16.73 lb)
Typical power consumption [W]	53.59 W
Typical heat dissipation [BTU/hour]	182.85 BTU/hour
Maximum power consumption [W]	- Without PoE: 63.70 W (with two 600 W AC power modules) 70.20 W (with two 1000 W AC power modules) 81.00 W (with two 1000 W DC power modules) - Full PoE load: 984.00 W (PoE: 840 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 217.35 (with two 600 W AC power modules) 239.53 (with two 1000 W AC power modules) 276.38 (with two 1000 W DC power modules) - Full PoE load: 3357.51 (PoE: 2866.16, with three 1000 W AC power modules)
Static power consumption [W]	32.79 W

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Item	Specification
MTBF [years]	53.44 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 49 dBA Three 1000 W AC PoE power modules with 30% load: 48.5 dBA Three 1000 W DC PoE power modules with 30% load: 47.3 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 37 dBA Three 1000 W AC PoE power modules with 30% load: 36.9 dBA Three 1000 W DC PoE power modules with 30% load: 35.5 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.12.30 S5735-S24P8J4XEZ-V2 (98012433-001)

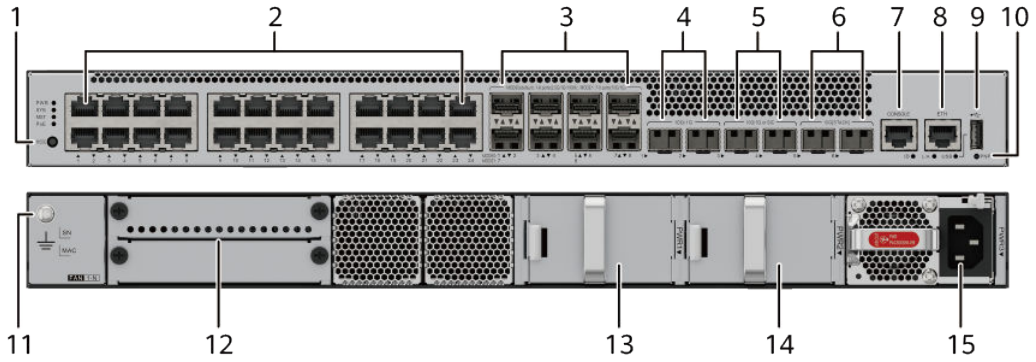
Overview

Table 4-654 Basic information about the S5735-S24P8J4XEZ-V2

Item	Details
Description	S5735-S24P8J4XEZ-V2 WB (24*10/100/1000BASE-T ports (PoE+), 8*2.5GE SFP ports (or 2*10GE SFP+ ports), 4*10GE SFP+ ports, 2*12GE stack ports, expansion card slot, without power module)
Part Number	98012433-001
Model	S5735-S24P8J4XEZ-V2
First supported version	V600R024C00

Components

Figure 4-228 S5735-S24P8J4XEZ-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports

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3	Eight 2.5GE SFP ports **NOTE** You can run the **port combination-mode** command to switch between two rate modes: • MODE0: Ports 1 to 8 support the rate of 2.5 Gbit/s, 1 Gbit/s, or 100 Mbit/s, but do not support the rate of 10 Gbit/s. • MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 in MODE0) support the rate of 10 Gbit/s or 1 Gbit/s, but do not support the rate of 2.5 Gbit/s or 100 Mbit/s. The other six ports are unavailable.	4	Two 10GE SFP+ ports
5	Two 10GE SFP+ ports **NOTE** The two ports cannot be used together with the rear card.	6	Two stack ports
7	One console port	8	One ETH management port
9	One USB port	10	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
11	Ground screw **NOTE** It is used with a **ground cable**.	12	Card slot **NOTE** The card slot is reserved and cannot be used currently.
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

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15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-655 Ports on the S5735-S24P8J4XEZ-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
2.5GE/GE/100M SFP optical port	SFP	A 2.5GE/GE/100M SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s. Two rate modes are supported: MODE0: Ports 1 to 8 support the rate of 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s, but do not support the rate of 10 Gbit/s. MODE1: Ports 7 and 8 (corresponding to ports 1 and 5 of MODE0) support the rate of 1000 Mbit/s or 10 Gbit/s, but do not support the rate of 100 Mbit/s or 2.5 Gbit/s. The other six ports are unavailable.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-229 Indicators on the Switch

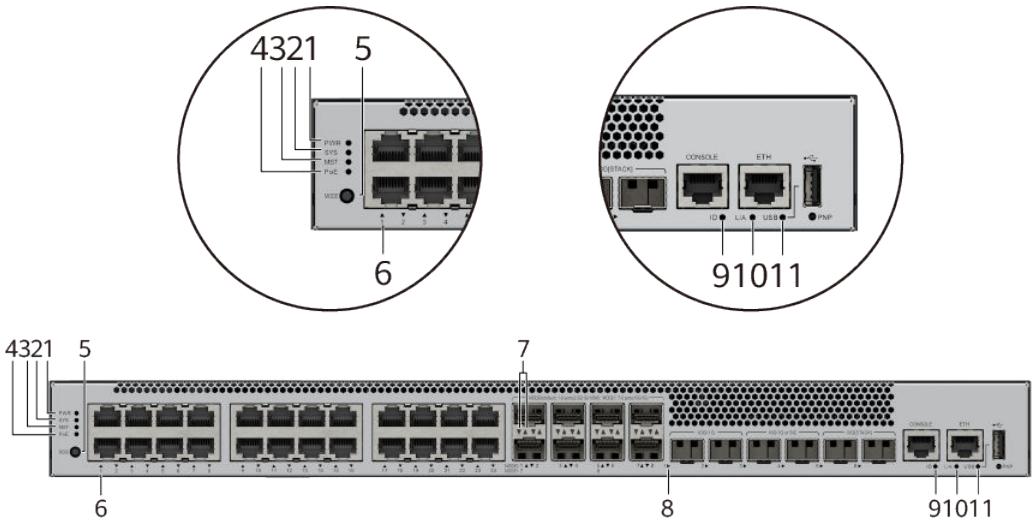

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Table 4-656 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Electrical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-657** and **Table 4-658**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports.		
9	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

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No.	Indicator	Name	Color	Status	Description
11	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-657 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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Display Mode	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Table 4-658 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.

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Display Mode	Color	Status	Description
Speed mode (LINK indicator) **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 100M/1GE/2.5GE SFP+ port: The port is operating at 100 Mbit/s or 1 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 100M/1GE/2.5GE SFP+ port: The port is operating at 2.5 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-659 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V)	–	–	774 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W DC	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	–	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	–	–	247 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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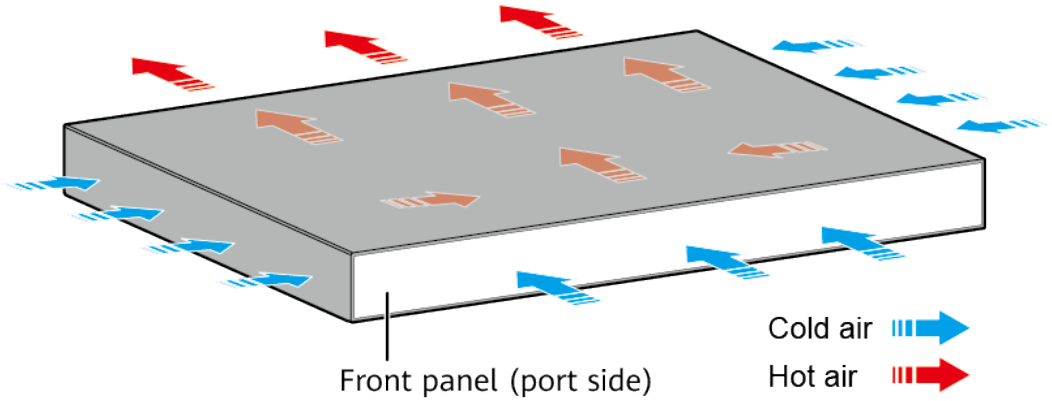
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	817 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-660 Technical specifications of the S5735-S24P8J4XEZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.14 kg (11.33 lb)
Weight with packaging [kg(lb)]	7.59 kg (16.73 lb)
Typical power consumption [W]	53.59 W
Typical heat dissipation [BTU/hour]	182.85 BTU/hour
Maximum power consumption [W]	- Without PoE: 63.70 W (with two 600 W AC power modules) 70.20 W (with two 1000 W AC power modules) 81.00 W (with two 1000 W DC power modules) - Full PoE load: 984.00 W (PoE: 840 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 217.35 (with two 600 W AC power modules) 239.53 (with two 1000 W AC power modules) 276.38 (with two 1000 W DC power modules) - Full PoE load: 3357.51 (PoE: 2866.16, with three 1000 W AC power modules)
Static power consumption [W]	32.79 W

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Item	Specification
MTBF [years]	53.44 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 49 dBA Three 1000 W AC PoE power modules with 30% load: 48.5 dBA Three 1000 W DC PoE power modules with 30% load: 47.3 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 37 dBA Three 1000 W AC PoE power modules with 30% load: 36.9 dBA Three 1000 W DC PoE power modules with 30% load: 35.5 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.12.31 S5735-S48T4XEZ-V2 (98012435)

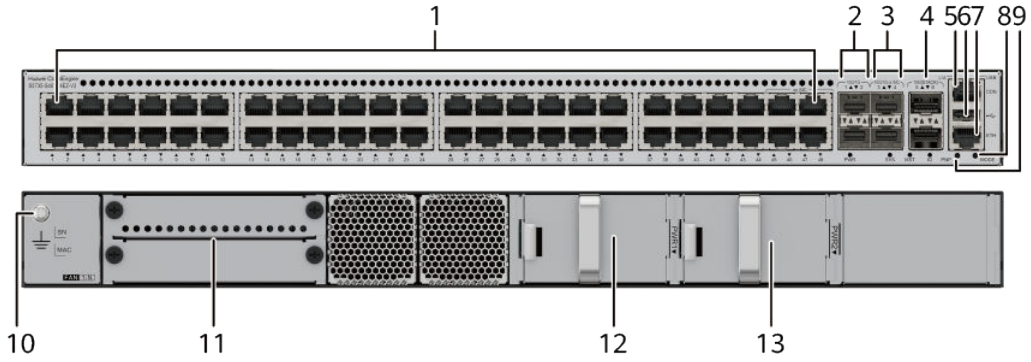
Overview

Table 4-661 Basic information about the S5735-S48T4XEZ-V2

Item	Details
Description	S5735-S48T4XEZ-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, expansion card slot, without power module)
Part Number	98012435
Model	S5735-S48T4XEZ-V2
First supported version	V600R024C00

Components

Figure 4-230 S5735-S48T4XEZ-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports **NOTE** The last four ports cannot be used together with the rear card.	2	Two 10GE SFP+ ports
3	Two 10GE SFP+ ports **NOTE** The two ports cannot be used together with the rear card.	4	Two stack ports
5	One console port	6	One USB port

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7	One ETH management port	8	One MODE button
9	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	10	Ground screw **NOTE** It is used with a **ground cable**.
11	Card slot **NOTE** The card slot is reserved and cannot be used currently.	12	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN**
13	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN**	-	-

Ports

Table 4-662 Ports on the S5735-S48T4XEZ-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S48T4XEZ-V2 has similar indicators to those on the S5735-S24P8J4XEZ-V2 except that the S5735-S48T4XEZ-V2 does not have a PoE mode indicator. For details, see the S5735-S24P8J4XEZ-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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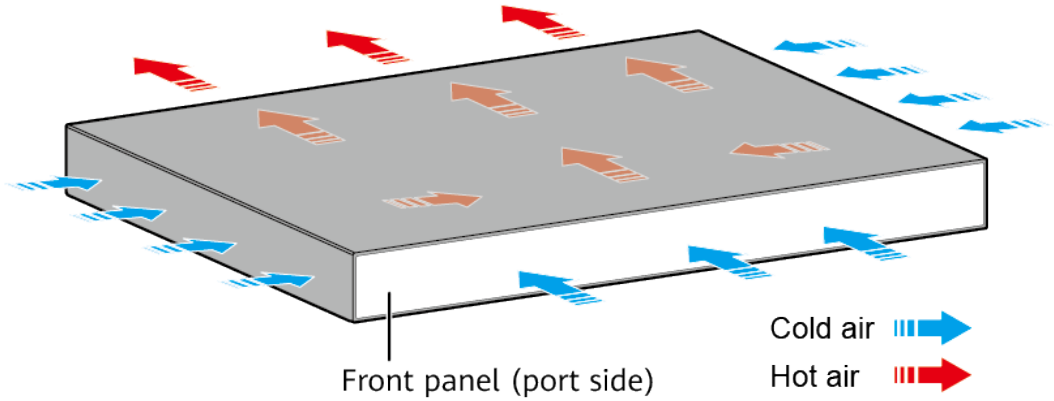

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-663 Technical specifications of the S5735-S48T4XEZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.03 kg (11.09 lb)
Weight with packaging [kg(lb)]	7.48 kg (16.49 lb)
Typical power consumption [W]	44.41 W
Typical heat dissipation [BTU/hour]	151.53 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 53.84 W (with two 80 W AC power modules) • 67.49 W (with two 180 W AC power modules) • 52.98 W (with two 240 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 183.71 (with two 80 W AC power modules) • 230.28 (with two 180 W AC power modules) • 180.77 (with two 240 W DC power modules)
Static power consumption [W]	24.68 W
MTBF [years]	41.60 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	29.9 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.

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Item	Specification
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.32 S5735-S48T4XEZ-V2 (98012435-001)

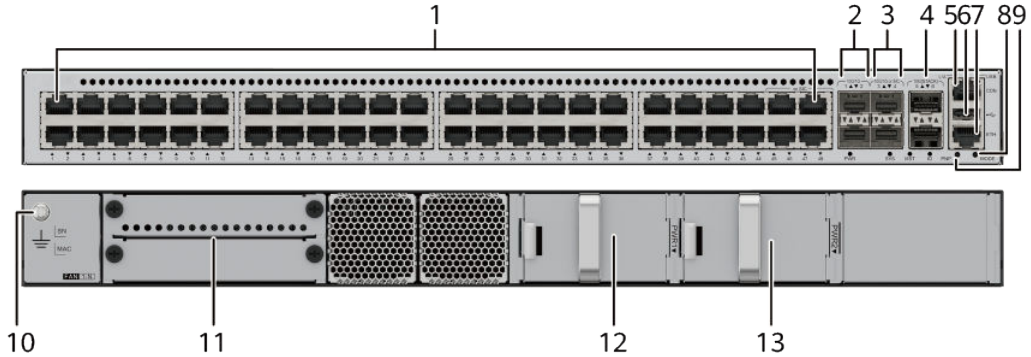
Overview

Table 4-664 Basic information about the S5735-S48T4XEZ-V2

Item	Details
Description	S5735-S48T4XEZ-V2 WB (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, expansion card slot, without power module)
Part Number	98012435-001
Model	S5735-S48T4XEZ-V2
First supported version	V600R024C00

Components

Figure 4-231 S5735-S48T4XEZ-V2 appearance



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1	Forty-eight 10/100/1000BASE-T ports **NOTE** The last four ports cannot be used together with the rear card.	2	Two 10GE SFP+ ports
3	Two 10GE SFP+ ports **NOTE** The two ports cannot be used together with the rear card.	4	Two stack ports
5	One console port	6	One USB port
7	One ETH management port	8	One MODE button
9	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	10	Ground screw **NOTE** It is used with a **ground cable**.
11	Card slot **NOTE** The card slot is reserved and cannot be used currently.	12	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN**
13	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN**	-	-

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Ports

Table 4-665 Ports on the S5735-S48T4XEZ-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S48T4XEZ-V2 has similar indicators to those on the S5735-S24P8J4XEZ-V2 except that the S5735-S48T4XEZ-V2 does not have a PoE mode indicator. For details, see the S5735-S24P8J4XEZ-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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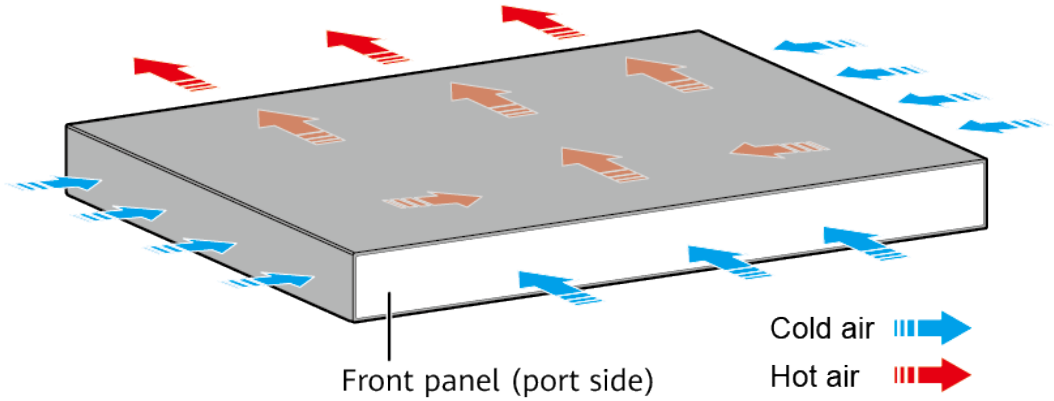

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-666 Technical specifications of the S5735-S48T4XEZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.03 kg (11.09 lb)
Weight with packaging [kg(lb)]	7.48 kg (16.49 lb)
Typical power consumption [W]	44.41 W
Typical heat dissipation [BTU/hour]	151.53 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 53.84 W (with two 80 W AC power modules) • 67.49 W (with two 180 W AC power modules) • 52.98 W (with two 240 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 183.71 (with two 80 W AC power modules) • 230.28 (with two 180 W AC power modules) • 180.77 (with two 240 W DC power modules)
Static power consumption [W]	24.68 W
MTBF [years]	41.60 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	29.9 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.

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Item	Specification
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.33 S5735-S48P4XEZ-V2 (98012437)

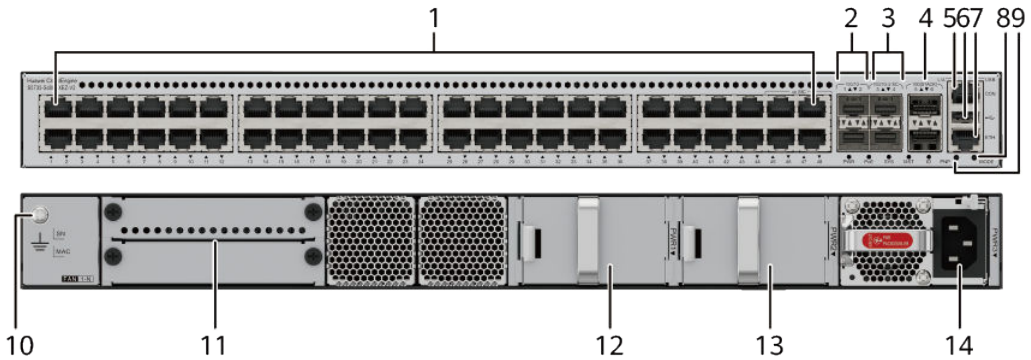
Overview

Table 4-667 Basic information about the S5735-S48P4XEZ-V2

Item	Details
Description	S5735-S48P4XEZ-V2 (48*10/100/1000BASE-T ports (PoE+), 4*10GE SFP+ ports, 2*12GE stack ports, expansion card slot, without power module)
Part Number	98012437
Model	S5735-S48P4XEZ-V2
First supported version	V600R024C00

Components

Figure 4-232 S5735-S48P4XEZ-V2 appearance



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1	Forty-eight 10/100/1000BASE-T PoE + ports **NOTE** The last four ports cannot be used together with the rear card.	2	Two 10GE SFP+ ports
3	Two 10GE SFP+ ports **NOTE** The two ports cannot be used together with the rear card.	4	Two stack ports
5	One console port	6	One USB port
7	One ETH management port	8	One MODE button
9	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	10	Ground screw **NOTE** It is used with a **ground cable**.
11	Card slot **NOTE** The card slot is reserved and cannot be used currently.	12	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
13	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

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Ports

Table 4-668 Ports on the S5735-S48P4XEZ-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S48P4XEZ-V2 has similar indicators to those on the S5735-S24P8J4XEZ-V2. For details, see the S5735-S24P8J4XEZ-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-669 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25
1000 W DC	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1566 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	–	1083 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 36
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1386 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1653 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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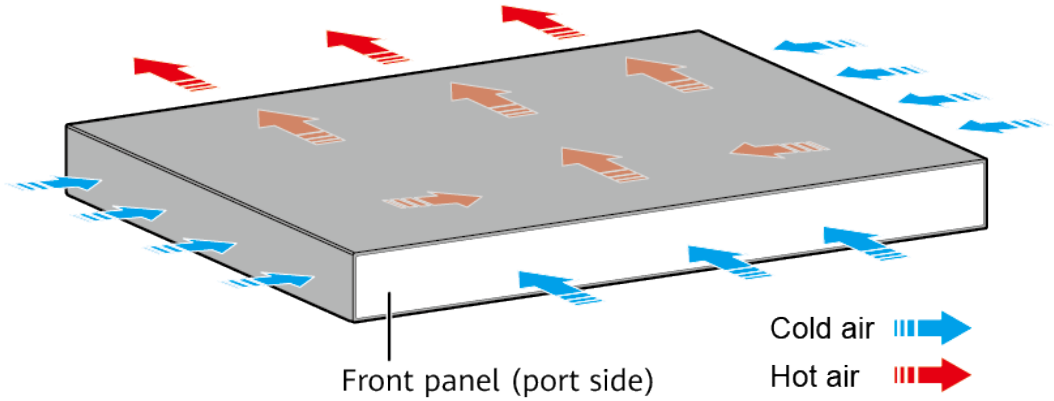

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-670 Technical specifications of the S5735-S48P4XEZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.30 kg (11.68 lb)
Weight with packaging [kg(lb)]	7.75 kg (17.09 lb)
Typical power consumption [W]	52.87 W
Typical heat dissipation [BTU/hour]	180.40 BTU/hour

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Item	Specification
Maximum power consumption [W]	- Without PoE: 74.40 W (with two 600 W AC power modules) 86.40 W (with two 1000 W AC power modules) 82.20 W (with two 1000 W DC power modules) - Full PoE load: 1854.00 W (PoE: 1680 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 253.86 (with two 600 W AC power modules) 294.81 (with two 1000 W AC power modules) 280.47 (with two 1000 W DC power modules) - Full PoE load: 6326.03 (PoE: 5732.33, with three 1000 W AC power modules)
Static power consumption [W]	33.89 W
MTBF [years]	40.14 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported

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Item	Specification
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.34 S5735-S48P4XEZ-V2 (98012437-001)

Overview

Table 4-671 Basic information about the S5735-S48P4XEZ-V2

Item	Details
Description	S5735-S48P4XEZ-V2 WB (48*10/100/1000BASE-T ports (PoE+), 4*10GE SFP+ ports, 2*12GE stack ports, expansion card slot, without power module)
Part Number	98012437-001
Model	S5735-S48P4XEZ-V2
First supported version	V600R024C00

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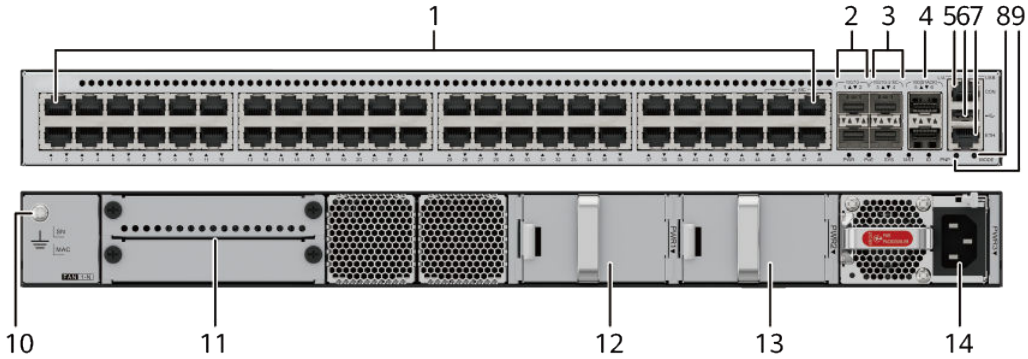
Components

Figure 4-233 S5735-S48P4XEZ-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE + ports **NOTE** The last four ports cannot be used together with the rear card.	2	Two 10GE SFP+ ports
3	Two 10GE SFP+ ports **NOTE** The two ports cannot be used together with the rear card.	4	Two stack ports
5	One console port	6	One USB port
7	One ETH management port	8	One MODE button
9	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	10	Ground screw **NOTE** It is used with a **ground cable**.
11	Card slot **NOTE** The card slot is reserved and cannot be used currently.	12	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

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13	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

Ports

Table 4-672 Ports on the S5735-S48P4XEZ-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735-S48P4XEZ-V2 has similar indicators to those on the S5735-S24P8J4XEZ-V2. For details, see the S5735-S24P8J4XEZ-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-673 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25
1000 W DC	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1566 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	–	1083 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 36
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1386 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1653 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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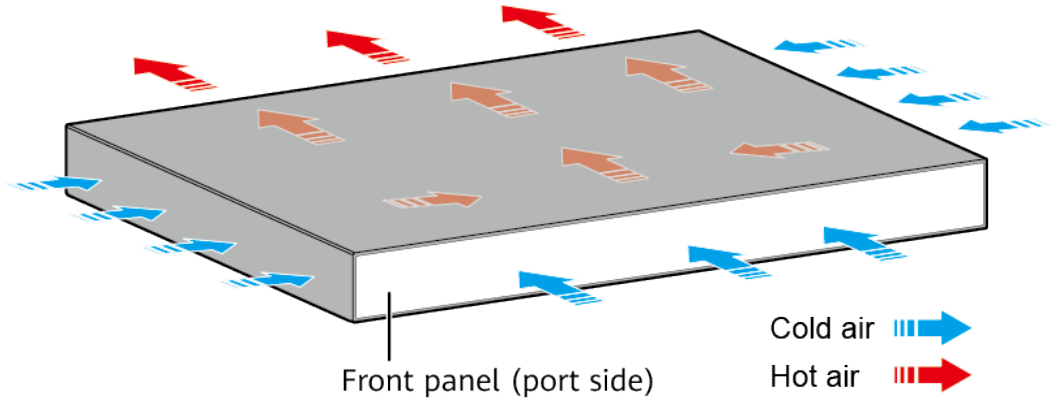

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-674 Technical specifications of the S5735-S48P4XEZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.30 kg (11.68 lb)
Weight with packaging [kg(lb)]	7.75 kg (17.09 lb)
Typical power consumption [W]	52.87 W
Typical heat dissipation [BTU/hour]	180.40 BTU/hour

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Item	Specification
Maximum power consumption [W]	- Without PoE: 74.40 W (with two 600 W AC power modules) 86.40 W (with two 1000 W AC power modules) 82.20 W (with two 1000 W DC power modules) - Full PoE load: 1854.00 W (PoE: 1680 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 253.86 (with two 600 W AC power modules) 294.81 (with two 1000 W AC power modules) 280.47 (with two 1000 W DC power modules) - Full PoE load: 6326.03 (PoE: 5732.33, with three 1000 W AC power modules)
Static power consumption [W]	33.89 W
MTBF [years]	40.14 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported

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Item	Specification
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.35 S5735-S24PN4XE-V2

Overview

Table 4-675 Basic information about the S5735-S24PN4XE-V2

Item	Details
Description	S5735-S24PN4XE-V2 (24*10/100/1000/2.5GBASE-T ports(PoE+), 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012400
Model	S5735-S24PN4XE-V2
First supported version	V600R023C10

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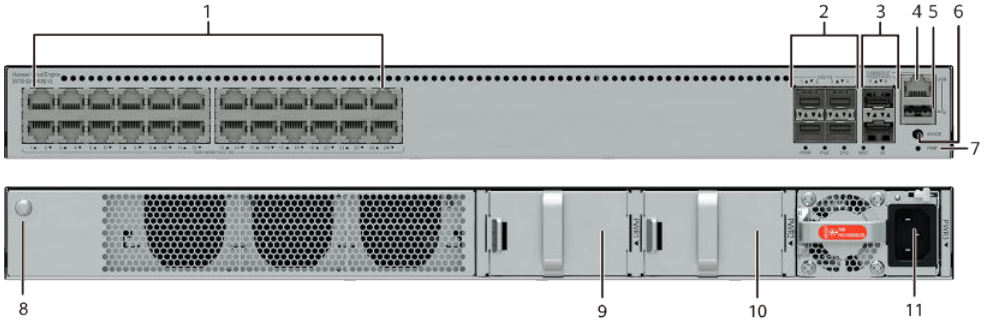
Components

Figure 4-234 S5735-S24PN4XE-V2 appearance



1	Twenty-four 10M/100M/1000M/2.5GE BASE-T PoE+ ports (multi-GE ports)	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-676 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)	
	10M/100M/1000M	2.5GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

Table 4-677 Ports on the S5735-S24PN4XE-V2

Port	Connector Type	Description	Available Components
10M/100M/1G/2.5GE BASE-T PoE + port (multi-GE port)	RJ45	A 10M/100M/1G/2.5GE BASE-T PoE + port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s. The port supports the PoE function.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

The S5735-S24PN4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-678 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W DC	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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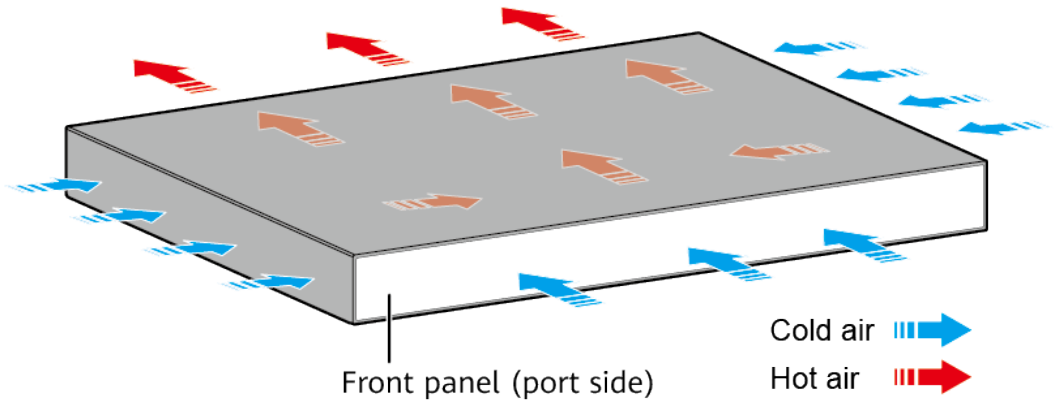
NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-679 Technical specifications of the S5735-S24PN4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.84 kg (10.67 lb)
Weight with packaging [kg(lb)]	7.05 kg (15.54 lb)

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Item	Specification
Typical power consumption [W]	54.4 W
Typical heat dissipation [BTU/hour]	185.62 BTU/hour
Maximum power consumption [W]	- Without PoE: 79.70 W (with two 600 W AC power modules) 87.40 W (with two 1000 W AC power modules) 95.10 W (with two 1000 W DC power modules) - Full PoE load: 1070.85 W (PoE: 840 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 271.94 (with two 600 W AC power modules) 298.22 (with two 1000 W AC power modules) 324.49 (with two 1000 W DC power modules) - Full PoE load: 3653.85 (PoE: 2866.16, with three 1000 W AC power modules)
Static power consumption [W]	33.1 W
MTBF [years]	60.68 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported

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Item	Specification
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.12.36 S5735-S48PN4XE-V2

Overview

Table 4-680 Basic information about the S5735-S48PN4XE-V2

Item	Details
Description	S5735-S48PN4XE-V2 (48*10/100/1000/2.5GBASE-T ports(PoE+), 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012399
Model	S5735-S48PN4XE-V2
First supported version	V600R023C10

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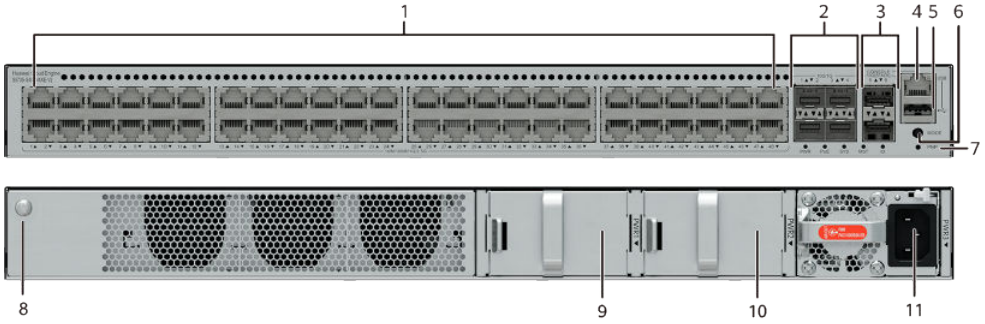
Components

Figure 4-235 S5735-S48PN4XE-V2 appearance



1	Forty-eight 10M/100M/1000M/ 2.5GE BASE-T PoE+ ports (multi-GE ports)	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-681 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)	
	10M/100M/1000M	2.5GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

Table 4-682 Ports on the S5735-S48PN4XE-V2

Port	Connector Type	Description	Available Components
10M/100M/1G/2.5GE BASE-T PoE + port (multi-GE port)	RJ45	A 10M/100M/1G/2.5GE BASE-T PoE + port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

The S5735-S48PN4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-683 Power supply configurations (V600R024C00 and later versions)

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27
1000 W AC (110 V)	–	–	738 W	• 802.3af (15.4 W per port): 47 • 802.3at (30 W per port): 24
1000 W DC	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27
600 W AC (220 V)	–	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16
600 W AC (110 V)	–	–	209 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1548 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	–	1064 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 35
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1368 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 45
600 W AC (110 V)	600 W AC (110 V)	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1634 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	779 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25

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Table 4-684 Power supply configurations (versions earlier than V600R024C00)

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	810 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27
1000 W AC (110 V)	–	–	720 W	• 802.3af (15.4 W per port): 46 • 802.3at (30 W per port): 24
1000 W DC	–	–	810 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27
600 W AC (220 V)	–	–	475 W	• 802.3af (15.4 W per port): 30 • 802.3at (30 W per port): 15
600 W AC (110 V)	–	–	190 W	• 802.3af (15.4 W per port): 12 • 802.3at (30 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1530 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	–	1045 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 34
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1350 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 45

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	–	475 W	• 802.3af (15.4 W per port): 30 • 802.3at (30 W per port): 15
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1615 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	760 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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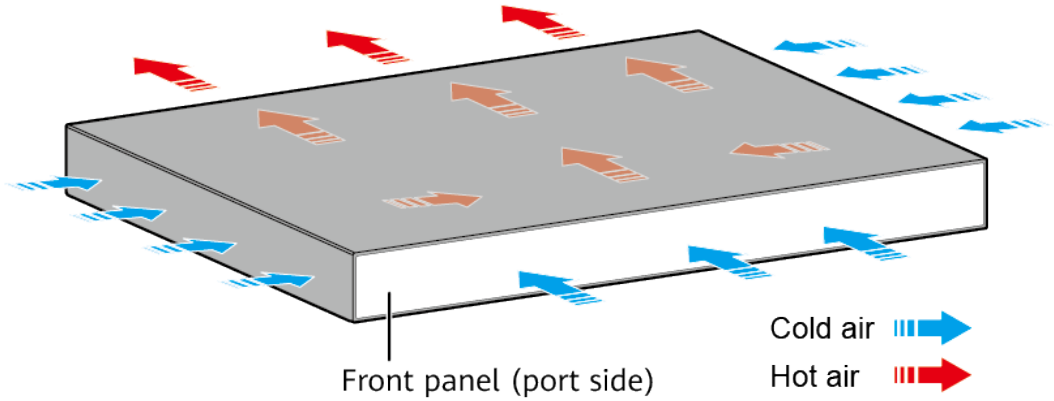

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-685 Technical specifications of the S5735-S48PN4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.16 kg (11.38 lb)
Weight with packaging [kg(lb)]	7.37 kg (16.25 lb)
Typical power consumption [W]	95.9 W
Typical heat dissipation [BTU/hour]	327.22 BTU/hour

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Item	Specification
Maximum power consumption [W]	- Without PoE: 121.90 W (with two 600 W AC power modules) 125.60 W (with two 1000 W AC power modules) 136.30 W (with two 1000 W DC power modules) - Full PoE load: 2019.68 W (PoE: 1680 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 415.93 (with two 600 W AC power modules) 428.56 (with two 1000 W AC power modules) 465.07 (with two 1000 W DC power modules) - Full PoE load: 6891.35 (PoE: 5732.33, with three 1000 W AC power modules)
Static power consumption [W]	54.3 W
MTBF [years]	44.71 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported

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Item	Specification
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.13 S5735E-S-V2

4.13.1 S5735E-S24HS4XE-V2

Overview

Table 4-686 Basic information about the S5735E-S24HS4XE-V2

Item	Details
Description	S5735E-S24HS4XE-V2 (24*bundled ports(24*GE SFP ports, 24*PoE++ ports(DB50)), 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012893
Model	S5735E-S24HS4XE-V2
First supported version	V600R024C10

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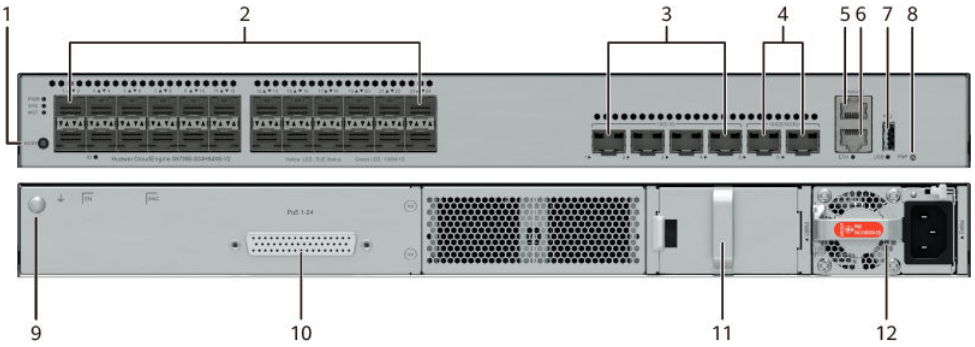
Components

Figure 4-236 S5735E-S24HS4XE-V2 appearance



1	One MODE button	2	Twenty-four 100/1000BASE-X ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One ETH management port
7	One USB port	8	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
9	Ground screw **NOTE** It is used with a **ground cable**.	10	PoE++ ports (DB50)
11	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	12	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

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Ports

Table 4-687 Ports on the S5735E-S24HS4XE-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**
PoE++ port	DB50	The S5735E-S24HS4XE-V2 is an optical/electrical hybrid switch. The switch provides one DB50 port, and the DB50 port provides 24 PoE++ ports. One PoE++ port and one 100/1000BASE-X Ethernet optical port can be used together.	• **DB50 cable** • **Hybrid cable terminal box (ES5MFMT00004)** • **Second-generation hybrid cable** **NOTE** When the S5735E-S24HS4XE-V2 hybrid switch uses PoE power supply, the DB50 cable, hybrid cable terminal box (ES5MFMT00004), and second-generation hybrid cable must be used together.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-237 Indicators on the Switch

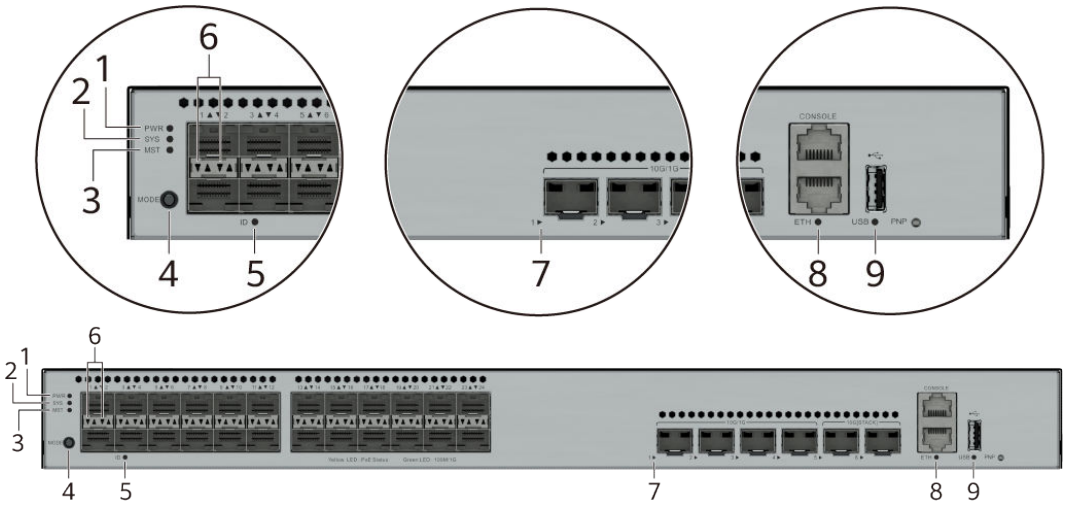

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Table 4-688 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
5	ID	ID indicator	-	Off	The ID indicator is not used (default state).

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No.	Indicator	Name	Color	Status	Description
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
6	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the PoE indicator (yellow), and the one on the right is the LINK/ACT indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-689** and **Table 4-690**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ETH	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	The ETH port is sending or receiving data.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-689 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK/ACT indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Default mode (PoE indicator)	-	Off	The port is not providing power to a powered device (PD).
	Yellow	Steady on	The port is providing power to a PD.
	Yellow	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
MST stack mode (LINK/ACT indicator)	-	Off	Port indicators do not show the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
MST stack mode (PoE indicator)	-	Off	Port indicators do not show the stack ID of the switch.
Speed mode (LINK/ACT indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	100/1000BASE-X port: The port is operating at 1000 Mbit/s.

Table 4-690 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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Display Mode	Color	Status	Description
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-691 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	810 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
1000 W AC (110 V)	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 6

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1710 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1530 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
600 W AC (220 V)	–	475 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 5
600 W AC (110 V)	–	190 W	• 802.3af (15.4 W per port): 12 • 802.3at (30 W per port): 6 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
600 W AC (220 V)	600 W AC (220 V)	1045 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 5

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	475 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1350 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

When a hybrid optical-electrical port is used for PoE power supply, the power supply capability and distance vary according to hybrid cables with different cable diameters. You can use the **Central Switch-to-RU Cable Length Calculation Tool** to calculate the power supply distance of the hybrid cable in different scenarios.

NOTE

- The hybrid switch uses hybrid cables to connect to and supply power to APs or remote units that can receive power. (For details about the AP models to which hybrid cables can supply power, see the WLAN AP product documentation.)
- The hybrid switch cannot be connected to devices other than remote units or APs using hybrid cables.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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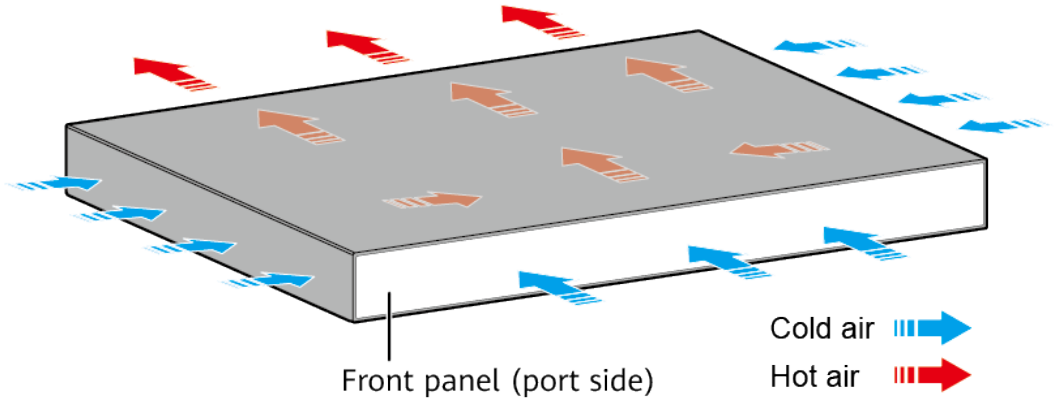

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-692 Technical specifications of the S5735E-S24HS4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.4 kg (11.9 lb)
Weight with packaging [kg(lb)]	7.35 kg (16.2 lb)
Typical power consumption [W]	53.1 W
Typical heat dissipation [BTU/hour]	181.18 BTU/hour
Maximum power consumption [W]	• Without PoE: 72.72 W • Full PoE load: 1940.45 W (PoE: 1710 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 248.13 • Full PoE load: 6621.01

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Item	Specification
Static power consumption [W]	33 W
MTBF [years]	91.97 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	48.7 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	36.70 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.13.2 S5735E-S48HS4XE-V2

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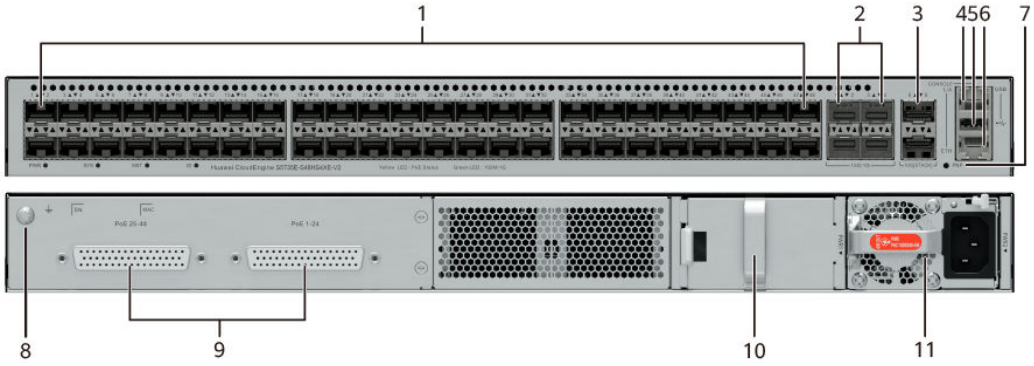
Overview

Table 4-693 Basic information about the S5735E-S48HS4XE-V2

Item	Details
Description	S5735E-S48HS4XE-V2 (48*bundled ports(48*GE SFP ports, 48*PoE++ ports(DB50)), 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012895
Model	S5735E-S48HS4XE-V2
First supported version	V600R024C10
Remarks	Copper modules can be installed on a maximum of 24 1000BASE-X optical ports.

Components

Figure 4-238 S5735E-S48HS4XE-V2 appearance



1	Forty-eight 100/1000BASE-X ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port
5	One USB port	6	One ETH management port

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7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	PoE++ ports (DB50)	10	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-694 Ports on the S5735E-S48HS4XE-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100/1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules**

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Port	Connector Type	Description	Available Components
PoE++ port	DB50	The S5735E-S48HS4XE-V2 is an optical/electrical hybrid switch. It provides two DB50 ports, and each DB50 port provides 24 PoE++ ports. One PoE++ port and one 100/1000BASE-X port can be used together.	• **DB50 cable** • **Hybrid cable terminal box (ES5MFMT00004)** • **Second-generation hybrid cable** **NOTE** When the S5735E-S24HS4XE-V2 hybrid switch uses PoE power supply, the DB50 cable, hybrid cable terminal box (ES5MFMT00004), and second-generation hybrid cable must be used together.

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m, 2 m, and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• 1 m SFP+ high-speed copper cables • 0.5 m and 1.5 m SFP+ dedicated stack cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-239 Indicators on the Switch

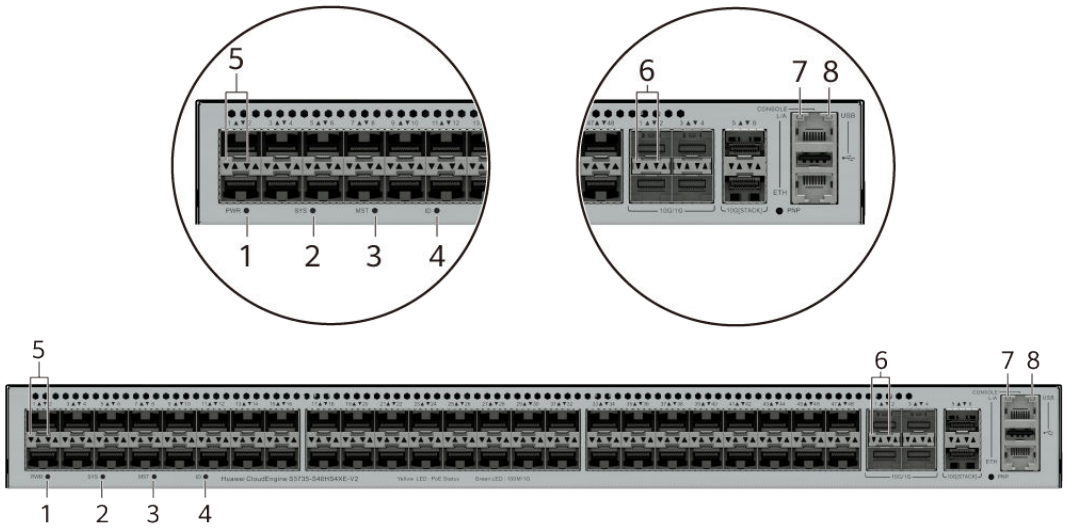

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Table 4-695 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
4	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
5	-	100/1000BASE-X optical port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the PoE indicator (yellow), and the one on the right is the LINK/ACT indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-696** and **Table 4-697**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
6	-	10GE optical port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			
7	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.

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No.	Indicator	Name	Color	Status	Description
			Red	Steady on	USB-based deployment fails.

Table 4-696 Description of 100/1000BASE-X optical port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK/ACT indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Default mode (PoE indicator)	-	Off	The port is not providing power to a powered device (PD).
	Yellow	Steady on	The port is providing power to a PD.
	Yellow	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode (LINK/ACT indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100/1000BASE-X port: The port is operating at 100 Mbit/s.
	Green	Blinking	100/1000BASE-X port: The port is operating at 1000 Mbit/s.

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Table 4-697 Description of 10GE optical port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-698 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	810 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	720 W	• 802.3af (15.4 W per port): 46 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1710 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28 • 802.3bt (90 W per port): 19
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1530 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 2530 • 802.3bt (90 W per port): 17
600 W AC (220 V)	–	475 W	• 802.3af (15.4 W per port): 30 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 5
600 W AC (110 V)	–	190 W	• 802.3af (15.4 W per port): 12 • 802.3at (30 W per port): 6 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	1045 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 34 • 802.3bt (60 W per port): 17 • 802.3bt (90 W per port): 11
600 W AC (110 V)	600 W AC (110 V)	475 W	• 802.3af (15.4 W per port): 30 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 5
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1350 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 45 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

When a hybrid optical-electrical port is used for PoE power supply, the power supply capability and distance vary according to hybrid cables with different cable diameters. You can use the **Central Switch-to-RU Cable Length Calculation Tool** to calculate the power supply distance of the hybrid cable in different scenarios.

NOTE

- The hybrid switch uses hybrid cables to connect to and supply power to APs or remote units that can receive power. (For details about the AP models to which hybrid cables can supply power, see the WLAN AP product documentation.)
- The hybrid switch cannot be connected to devices other than remote units or APs using hybrid cables.

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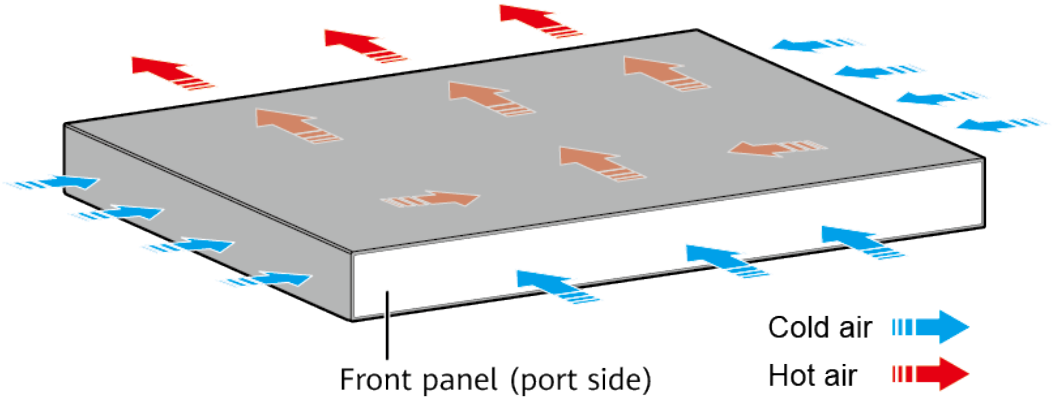
Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-699 Technical specifications of the S5735E-S48HS4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.95 kg (13.12 lb)
Weight with packaging [kg(lb)]	7.85 kg (17.31 lb)
Typical power consumption [W]	84.7 W
Typical heat dissipation [BTU/hour]	289 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 113.62 W • Full PoE load: 1998.52 W (PoE: 1710 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 387.68 • Full PoE load: 6819.15
Static power consumption [W]	48 W
MTBF [years]	60.98 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	48.7 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	36.70 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.14 S5735R-S-V2

4.14.1 S5735R-S24P4X-V2

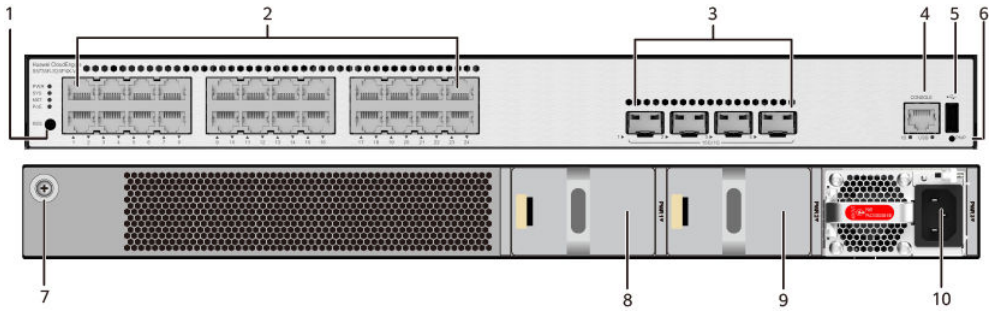
Overview

Table 4-700 Basic information about the S5735R-S24P4X-V2

Item	Details
Description	S5735R-S24P4X-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, PoE+, without power module)
Part Number	98012704
Model	S5735R-S24P4X-V2
First supported version	V600R024C10

Components

Figure 4-240 S5735R-S24P4X-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 10GE SFP+ ports	4	One console port

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5	One USB port	6	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
7	Ground screw **NOTE** It is used with a **ground cable**.	8	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
9	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

Ports

Table 4-701 Ports on the S5735R-S24P4X-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-241 Indicators on the Switch

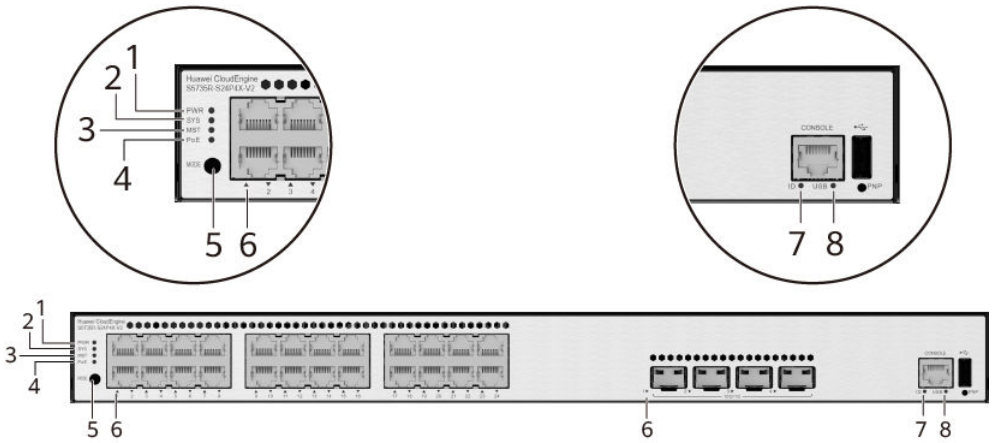

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Table 4-702 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-703**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).

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No.	Indicator	Name	Color	Status	Description
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-703 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-704 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V)	–	–	774 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W DC	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	–	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	247 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	–	532 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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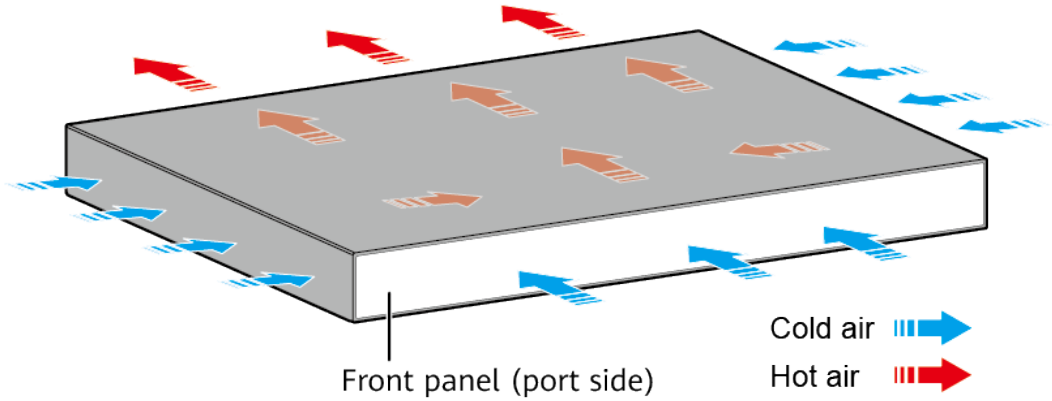
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	817 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



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NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-705 Technical specifications of the S5735R-S24P4X-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.80 kg (10.58 lb)
Weight with packaging [kg(lb)]	7.74 kg (17.06 lb)
Typical power consumption [W]	39.43 W
Typical heat dissipation [BTU/hour]	134.54 BTU/hour
Maximum power consumption [W]	- Without PoE: 45.80 W (with two 600 W AC power modules) 55.70 W (with two 1000 W AC power modules) 64.68 W (with two 1000 W DC power modules) - Full PoE load: 1023.22 W (PoE: 840 W, with three 1000 W AC power modules)

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Item	Specification
Maximum heat dissipation [BTU/hour]	- Without PoE: 156.27 (with two 600 W AC power modules) 190.05 (with two 1000 W AC power modules) 220.69 (with two 1000 W DC power modules) - Full PoE load: 3491.33 (PoE: 2866.16, with three 1000 W AC power modules)
Static power consumption [W]	28.65 W
MTBF [years]	120.24 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 49 dBA Three 1000 W AC PoE power modules with 30% load: 48.5 dBA Three 1000 W DC PoE power modules with 30% load: 47.3 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 37 dBA Three 1000 W AC PoE power modules with 30% load: 36.9 dBA Three 1000 W DC PoE power modules with 30% load: 35.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).

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Item	Specification
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.14.2 S5735R-S48P4X-V2

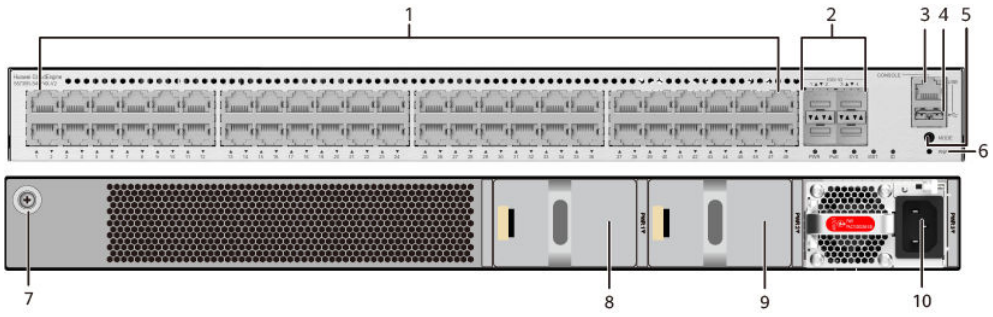
Overview

Table 4-706 Basic information about the S5735R-S48P4X-V2

Item	Details
Description	S5735R-S48P4X-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, PoE+, without power module)
Part Number	98012705
Model	S5735R-S48P4X-V2
First supported version	V600R024C10

Components

Figure 4-242 S5735R-S48P4X-V2 appearance



1	Forty-eight 10/100/1000BASE-T PoE + ports	2	Four 10GE SFP+ ports

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3	One console port	4	One USB port
5	One MODE button	6	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
7	Ground screw **NOTE** It is used with a **ground cable**.	8	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
9	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

Ports

Table 4-707 Ports on the S5735R-S48P4X-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735R-S48P4X-V2 has similar indicators to those on the S5735R-S24P4X-V2. For details, see the S5735R-S24P4X-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-708 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25
1000 W DC	–	–	846 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1566 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	–	1083 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 36
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1386 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1653 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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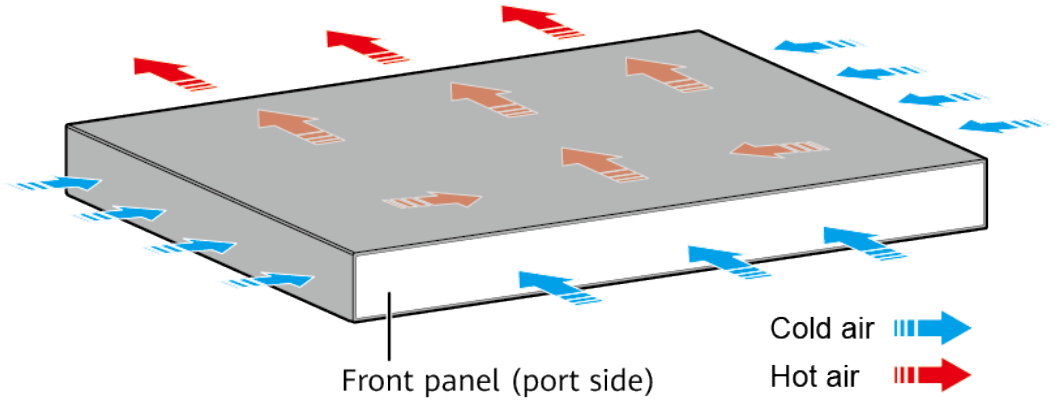

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-709 Technical specifications of the S5735R-S48P4X-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.20 kg (11.46 lb)
Weight with packaging [kg(lb)]	8.00 kg (17.64 lb)
Typical power consumption [W]	54.51 W
Typical heat dissipation [BTU/hour]	185.99 BTU/hour

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Item	Specification
Maximum power consumption [W]	- Without PoE: 62.90 W (with two 600 W AC power modules) 67.20 W (with two 1000 W AC power modules) 76.93 W (with two 1000 W DC power modules) - Full PoE load: 1931.44 W (PoE: 1680 W, with three 1000 W AC power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 214.62 (with two 600 W AC power modules) 227.93 (with two 1000 W AC power modules) 261.47 (with two 1000 W DC power modules) - Full PoE load: 6590.27 (PoE: 5732.33, with three 1000 W AC power modules)
Static power consumption [W]	33.99 W
MTBF [years]	79.02 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported

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Item	Specification
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.14.3 S5735R-S24T8J4X-XA-V2

Overview

Table 4-710 Basic information about the S5735R-S24T8J4X-XA-V2

Item	Details
Description	S5735R-S24T8J4X-XA-V2 (24*10/100/1000BASE-T ports, 8*2.5GE SFP ports (or 2*10GE SFP+ ports), 4*10GE SFP+ ports, dual built-in AC power)
Part Number	98012702
Model	S5735R-S24T8J4X-XA-V2
First supported version	V600R024C10

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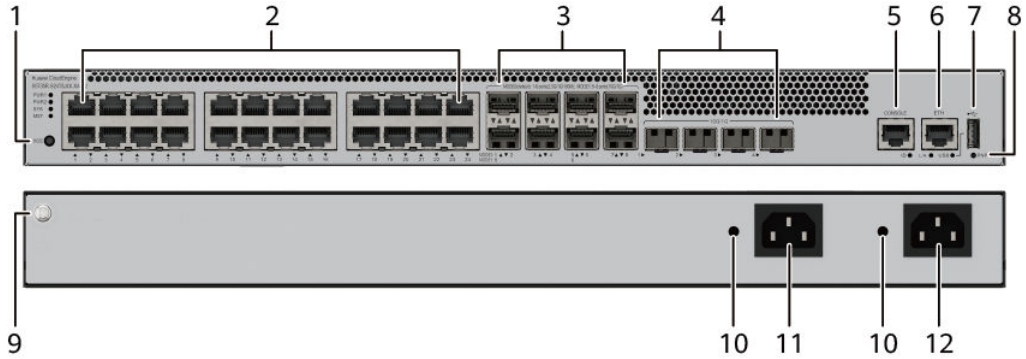
Components

Figure 4-243 S5735R-S24T8J4X-XA-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Eight 2.5GE SFP ports **NOTE** You can run the **port combination-mode** command to switch between two rate modes: • MODE0: Ports 1 to 8 support the rate of 2.5 Gbit/s, 1 Gbit/s, or 100 Mbit/s, but do not support the rate of 10 Gbit/s. • MODE1: Ports 5 and 6 (corresponding to ports 1 and 5 in MODE0) support the rate of 10 Gbit/s or 1 Gbit/s, but do not support the rate of 2.5 Gbit/s or 100 Mbit/s. The other six ports are unavailable.	4	Four 10GE SFP+ ports
5	One console port	6	One ETH management port
7	One USB port	8	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.

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9	Ground screw **NOTE** It is used with a **ground cable**.	10	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.
11	AC socket 1 **NOTE** It is used with an **AC power cable**.	12	AC socket 2 **NOTE** It is used with an **AC power cable**.

Ports

Table 4-711 Ports on the S5735R-S24T8J4X-XA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
2.5GE/GE/100M SFP optical port	SFP	A 2.5GE/GE/100M SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s. Two rate modes are supported: MODE0: Ports 1 to 8 support the rate of 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s, but do not support the rate of 10 Gbit/s. MODE1: Ports 5 and 6 (corresponding to ports 1 and 5 of MODE0) support the rate of 1000 Mbit/s or 10 Gbit/s, but do not support the rate of 100 Mbit/s or 2.5 Gbit/s. The other six ports are unavailable.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-244 Indicators on the Switch

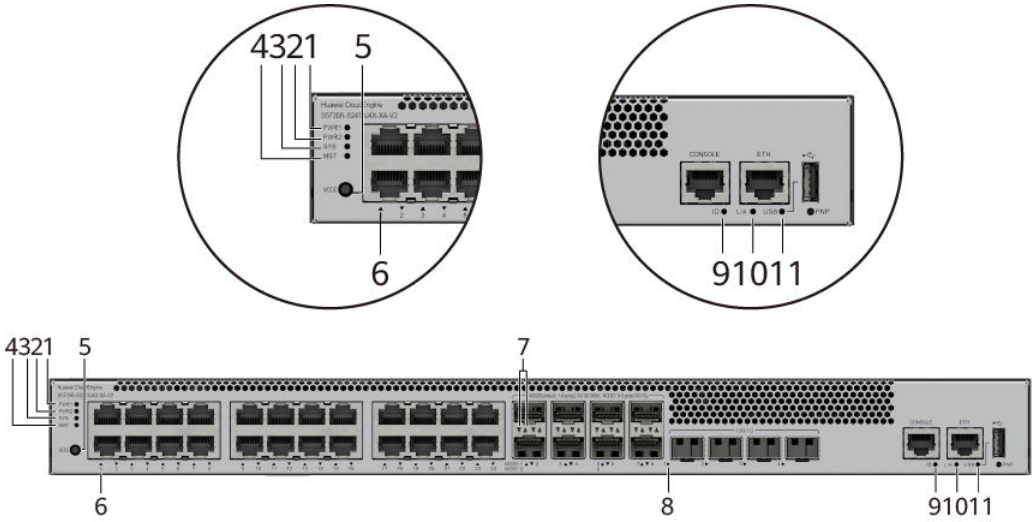

Table 4-712 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Power 1 indicator	-	Off	No power is supplied to AC socket 1.
			Green	Steady on	The power supply of AC socket 1 is normal.
2	PWR 2	Power 2 indicator	-	Off	No power is supplied to AC socket 2.
			Green	Steady on	The power supply of AC socket 2 is normal.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.

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No.	Indicator	Name	Color	Status	Description
4	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Electrical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-713** and **Table 4-714**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports.		
9	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

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No.	Indicator	Name	Color	Status	Description
11	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-713 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Table 4-714 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 100M/1GE/2.5GE SFP+ port: The port is operating at 100 Mbit/s or 1 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 100M/1GE/2.5GE SFP+ port: The port is operating at 2.5 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

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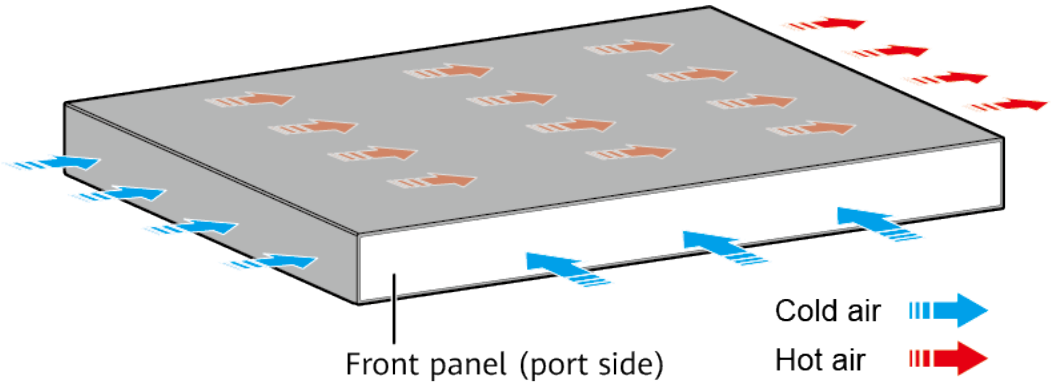
Power Supply System

The switch has two built-in AC power modules for power redundancy.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-715 Technical specifications of the S5735R-S24T8J4X-XA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.40 kg (9.7 lb)
Weight with packaging [kg(lb)]	6.85 kg (15.1 lb)
Typical power consumption [W]	41.18 W

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Item	Specification
Typical heat dissipation [BTU/hour]	140.51 BTU/hour
Maximum power consumption [W]	53.12 W
Maximum heat dissipation [BTU/hour]	181.25 BTU/hour
Static power consumption [W]	22.45 W
MTBF [years]	59.93 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	29.9 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Dual built-in power modules in 1+1 backup mode
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	4.0 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.14.4 S5735R-S48T4X-XA-V2

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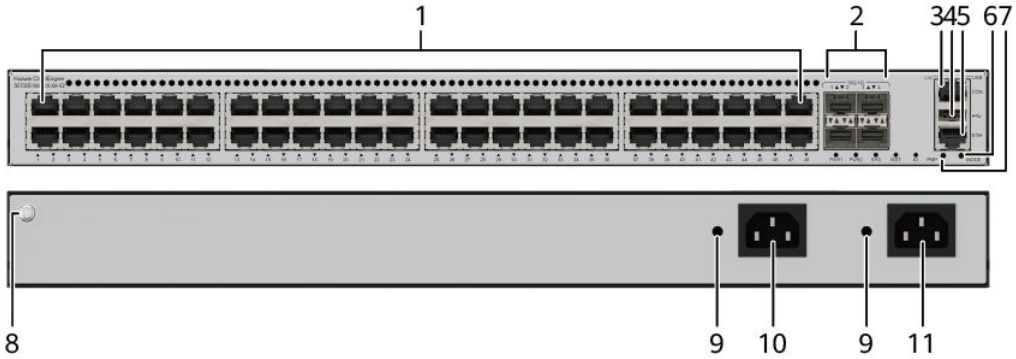
Overview

Table 4-716 Basic information about the S5735R-S48T4X-XA-V2

Item	Details
Description	S5735R-S48T4X-XA-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, dual built-in AC power)
Part Number	98012703
Model	S5735R-S48T4X-XA-V2
First supported version	V600R024C10

Components

Figure 4-245 S5735R-S48T4X-XA-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	One console port	4	One USB port
5	One ETH management port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.

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9	Jack for AC power cable locking strap **NOTE** The AC power cable locking strap is not delivered with the switch.	10	AC socket 1 **NOTE** It is used with an **AC power cable**.
11	AC socket 2 **NOTE** It is used with an **AC power cable**.	-	-

Ports

Table 4-717 Ports on the S5735R-S48T4X-XA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **1 m and 3 m SFP+ high-speed copper cables** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735R-S48T4X-XA-V2 has similar indicators to those on the S5735R-S24T8J4X-XA-V2. For details, see the S5735R-S24T8J4X-XA-V2.

Power Supply System

The switch has two built-in AC power modules for power redundancy.

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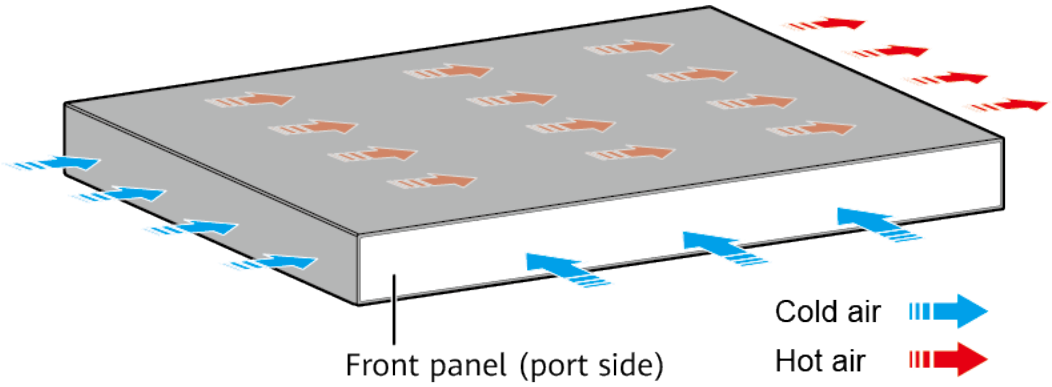
Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-718 Technical specifications of the S5735R-S48T4X-XA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.39 kg (9.68 lb)
Weight with packaging [kg(lb)]	6.82 kg (15.04 lb)
Typical power consumption [W]	39.10 W
Typical heat dissipation [BTU/hour]	133.41 BTU/hour
Maximum power consumption [W]	53.74 W

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Item	Specification
Maximum heat dissipation [BTU/hour]	183.37 BTU/hour
Static power consumption [W]	18.45 W
MTBF [years]	43.19 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	29.9 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Dual built-in power modules in 1+1 backup mode
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). The operating temperature ranges from –5°C (23°F) to +45°C (113°F) when optical modules with transmission distances greater than or equal to 60 km are used.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	4.0 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.15 S5735I-S-V2

4.15.1 S5735I-S8T4SN-V2

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Overview

Table 4-719 Basic information about the S5735I-S8T4SN-V2

Item	Details
Description	S5735I-S8T4SN-V2 (8*10/100/1000BASE-T ports, 4*GE SFP ports, DIN Rail Mounting, Dual redundant 9.6 to 60V DC power, Fanless)
Part Number	98012086
Model	S5735I-S8T4SN-V2
First supported version	V600R022C01

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Components

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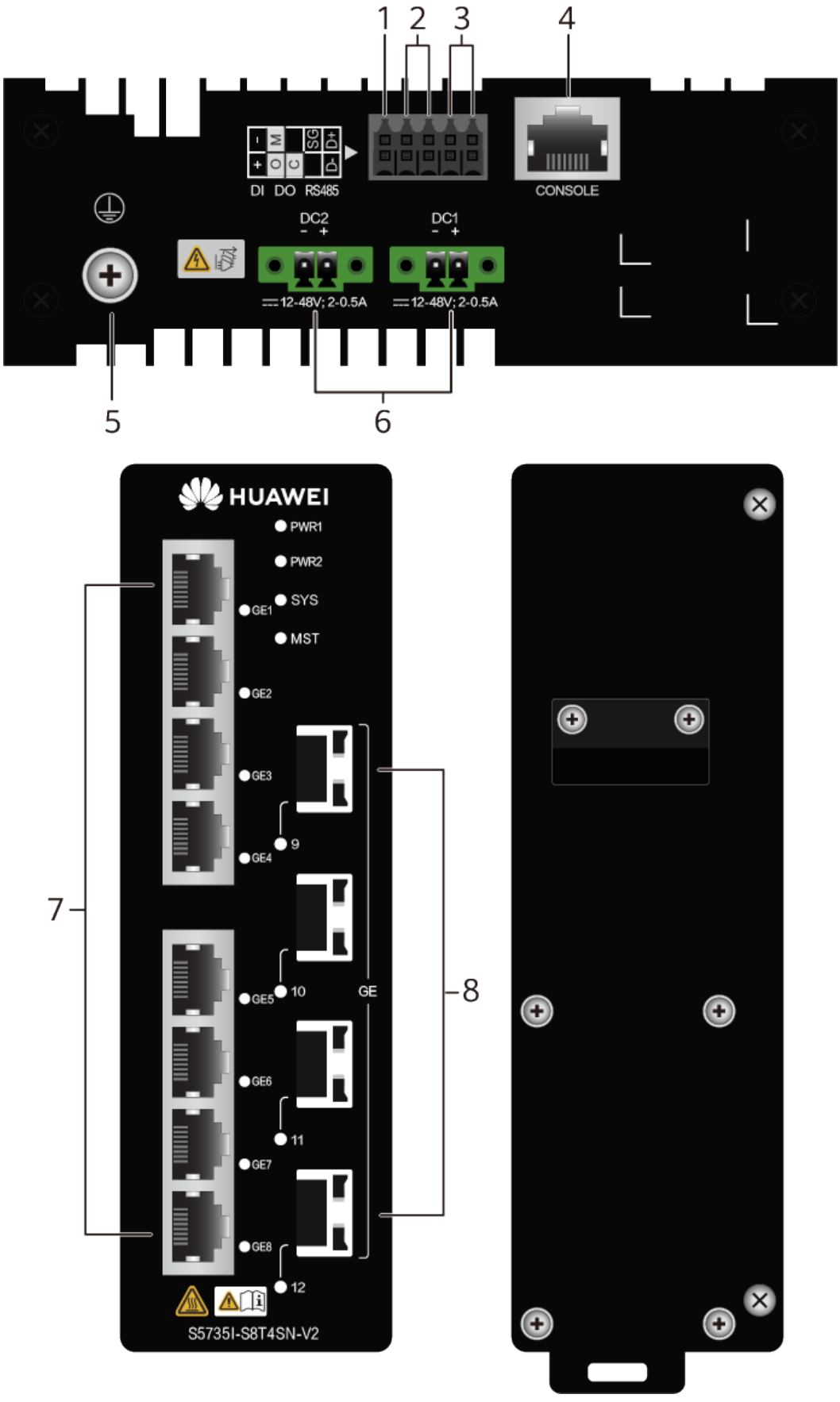
Figure 4-246 S5735I-S8T4SN-V2 appearance



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1	DI port	2	DO port
3	RS485 port	4	One console port
5	Ground screw **NOTE** It is used with a **ground cable**.	6	Two DC input power sockets **NOTE** Applicable external power module: **PAC60S12-AN**
7	Eight 10/100/1000BASE-T ports	8	Four 1000BASE-X ports

Ports

Figure 4-247 Typical connections of the DI port

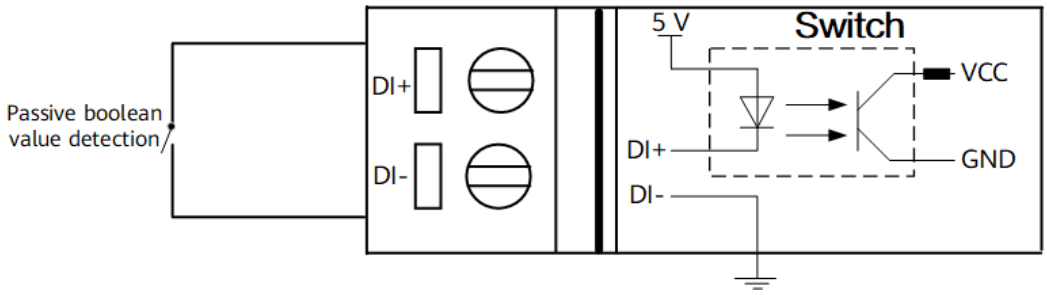

Figure 4-248 Typical connections of the DO port

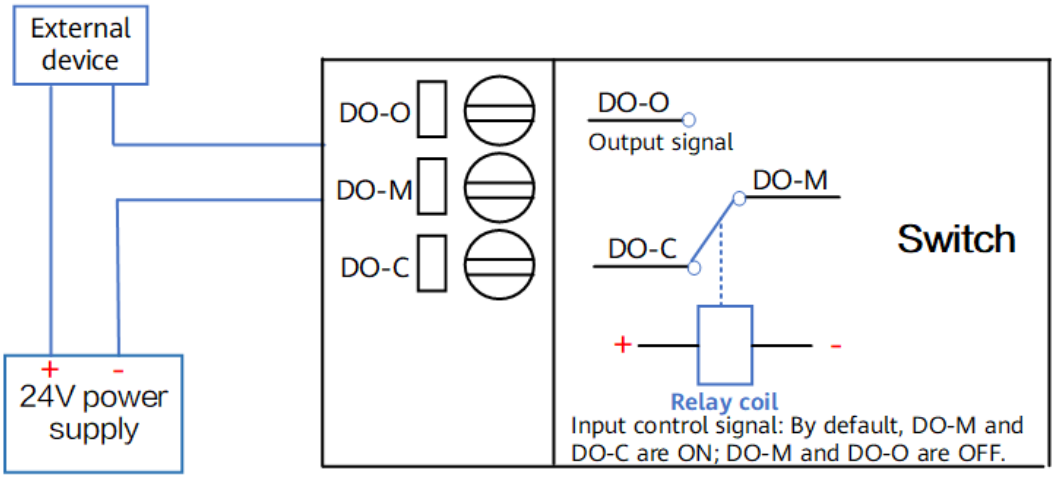

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Table 4-720 Ports on the S5735I-S8T4SN-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
1000BASE-X port	SFP	A 1000BASE-X port can send and receive data at 1000 Mbit/s.	• **Industrial optical modules (only optical modules with 1 Gbit/s transmission speed and transmission distances less than or equal to 10 km are supported)** • **3 m SFP+ high-speed copper cables (supported in V600R022C10 and later versions, only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (supported in V600R022C10 and later versions, only used for stack connection; zero-configuration stacking supported from V600R023C00)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
RS-485 port	2x5-Pin Phoenix Connector	The RS-485 port is used for data collection. • Standards compliance: RS-485 • Working mode: Half-duplex • Supported rates: 1200 bit/s, 2400 bit/s, 4800 bit/s, 9600 bit/s, 19200 bit/s, 38400 bit/s, 57600 bit/s, and 115200 bit/s • Maximum number of nodes that can be mounted: 64 • Maximum communication distance: 1 km @ 9600 bit/s The default configurations of the RS-485 port are as follows: • Baud rate: 9600 bit/s • Flow control: None • Parity check: None • Stop bits: 1 • Data bits: 8	**2x5-Pin Phoenix Connector**

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Port	Connector Type	Description	Available Components
DI port	2x5-Pin Phoenix Connector	The DI port is used to check remote communication input and level signals. Signal type: Passive DI signals, Boolean value (short circuit and open circuit)	2x5-Pin Phoenix Connector
DO port	2x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	2x5-Pin Phoenix Connector

Indicators and Buttons

The S5735I-S8T4SN-V2 has similar indicators to those on the S5735I-S8U4XN-V2 except that the S5735I-S8T4SN-V2 does not have PoE and USB indicators. For details, see the S5735I-S8U4XN-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The switch can be directly connected to an external 12 V to 48 V DC power supply or powered by the PAC60S12-AN.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-721 Technical specifications of the S5735I-S8T4SN-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 46.0 mm x 133.0 mm (5.91 in. x 1.81 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 46.0 mm x 142.0 mm (6.38 in. x 1.81 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	235.0 mm x 90.0 mm x 205.0 mm (9.25 in. x 3.54 in. x 8.07 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	0.95 kg (2.09 lb)
Weight with packaging [kg(lb)]	1.23 kg (2.71 lb)
Typical power consumption [W]	17.44 W
Typical heat dissipation [BTU/hour]	59.48 BTU/hour
Maximum power consumption [W]	18.59 W
Maximum heat dissipation [BTU/hour]	63.40 BTU/hour
Static power consumption [W]	14.10 W
MTBF [years]	104.86 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: • Sealed cabinet: –40°C to +60°C (–40°F to +140°F) • Vented cabinet (≥ 80 LFM): –40°C to +70°C (–40°F to +158°F) • Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 12 V DC to 48 V DC
Input voltage range [V]	DC input: 9.6 V DC to 60 V DC
Maximum input current [A]	2 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	DC power: ±2 kV in common mode and ±1 kV in differential mode
Ingress protection level (dustproof/waterproof)	IP40
Types of fans	None

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Item	Specification
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.15.2 S5735I-S8T4XN-V2

Overview

Table 4-722 Basic information about the S5735I-S8T4XN-V2

Item	Details
Description	S5735I-S8T4XN-V2 (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, DIN Rail Mounting, Dual redundant 9.6 to 60V DC power, Fanless)
Part Number	98012064
Model	S5735I-S8T4XN-V2
First supported version	V600R022C01

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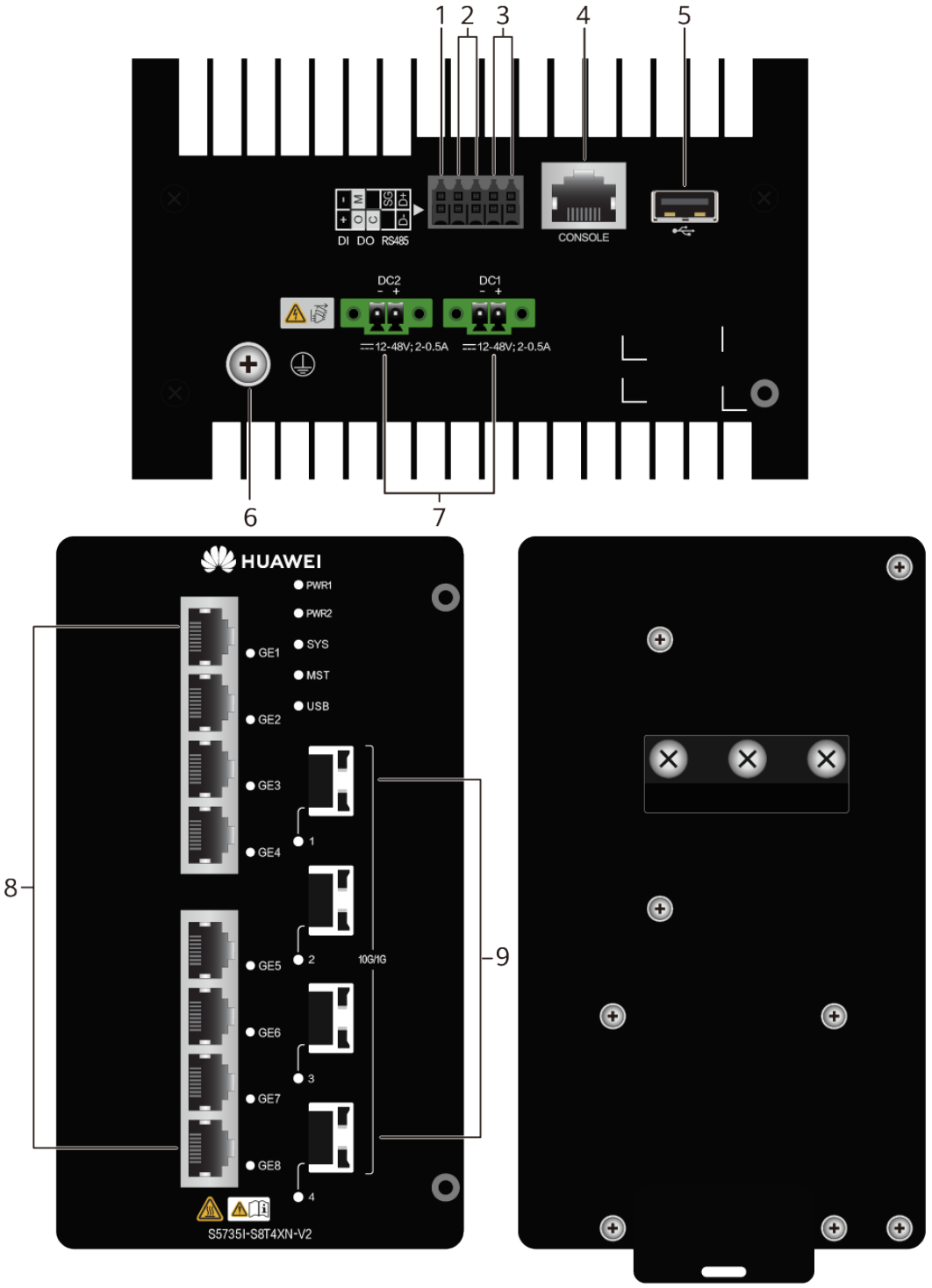
Components

Figure 4-249 S5735I-S8T4XN-V2 appearance



1	DI port	2	DO port

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3	RS485 port	4	One console port
5	One USB port	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Two DC input power sockets **NOTE** Applicable external power module: **PAC60S12-AN**	8	Eight 10/100/1000BASE-T ports
9	Four 10GE SFP+ ports	-	-

Ports

Figure 4-250 Typical connections of the DI port

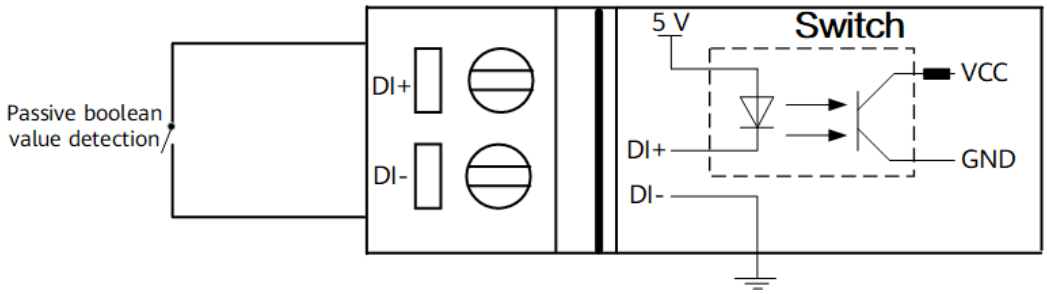

Figure 4-251 Typical connections of the DO port

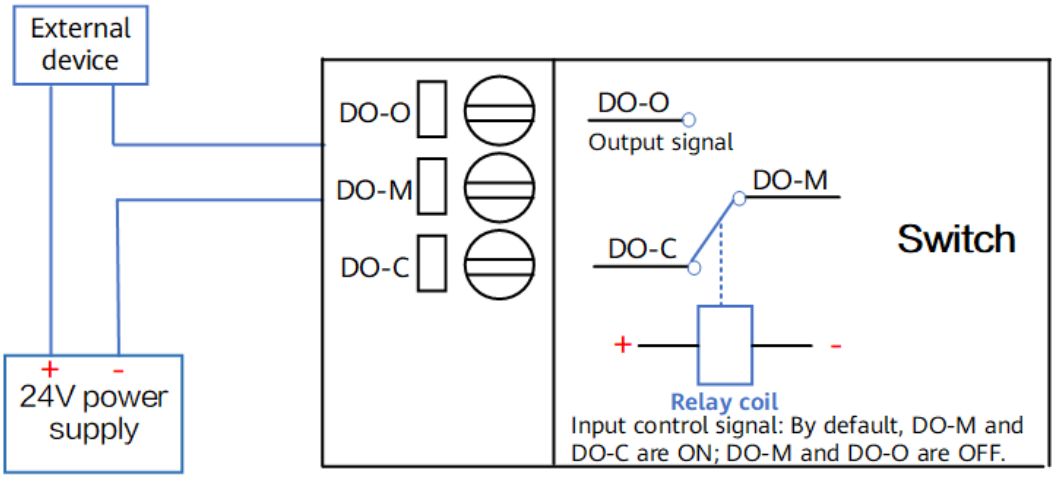

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Table 4-723 Ports on the S5735I-S8T4XN-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (supported in V600R022C10 and later versions, only used for stack connection in V600R022C10 version)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (supported in V600R022C10 and later versions, only used for stack connection; zero-configuration stacking supported from V600R023C00)** • **GE SFP copper module (supported in V600R023C00 and later versions, only 02314BDD is supported)** • **PEN remote optical modules (V600R024C10 and later versions)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Port	Connector Type	Description	Available Components
RS-485 port	2x5-Pin Phoenix Connector	The RS-485 port is used for data collection. • Standards compliance: RS-485 • Working mode: Half-duplex • Supported rates: 1200 bit/s, 2400 bit/s, 4800 bit/s, 9600 bit/s, 19200 bit/s, 38400 bit/s, 57600 bit/s, and 115200 bit/s • Maximum number of nodes that can be mounted: 64 • Maximum communication distance: 1 km @ 9600 bit/s The default configurations of the RS-485 port are as follows: • Baud rate: 9600 bit/s • Flow control: None • Parity check: None • Stop bits: 1 • Data bits: 8	**2x5-Pin Phoenix Connector**

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Port	Connector Type	Description	Available Components
DI port	2x5-Pin Phoenix Connector	The DI port is used to check remote communication input and level signals. Signal type: Passive DI signals, Boolean value (short circuit and open circuit)	2x5-Pin Phoenix Connector
DO port	2x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	2x5-Pin Phoenix Connector

Indicators and Buttons

The S5735I-S8T4XN-V2 has similar indicators to those on the S5735I-S8U4XN-V2 except that the S5735I-S8T4XN-V2 does not have a PoE indicator. For details, see the S5735I-S8U4XN-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The switch can be directly connected to an external 12 V to 48 V DC power supply or powered by the PAC60S12-AN.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-724 Technical specifications of the S5735I-S8T4XN-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 86.0 mm x 133.0 mm (5.91 in. x 3.39 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 86.0 mm x 142.0 mm (6.38 in. x 3.39 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	235.0 mm x 120.0 mm x 205.0 mm (9.25 in. x 4.72 in. x 8.07 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.75 kg (3.86 lb)
Weight with packaging [kg(lb)]	2.11 kg (4.65 lb)
Typical power consumption [W]	19.94 W
Typical heat dissipation [BTU/hour]	68.00 BTU/hour
Maximum power consumption [W]	20.35 W
Maximum heat dissipation [BTU/hour]	69.40 BTU/hour
Static power consumption [W]	14.40 W
MTBF [years]	101.33 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +65°C (–40°F to +149°F) ● Vented cabinet (≥ 40 LFM): –40°C to +70°C (–40°F to +158°F) ● Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +50°C (32°F to 122°F) ● Vented cabinet (≥ 40 LFM): 0°C to +55°C (32°F to 131°F) ● Blower-equipped cabinet (≥ 200 LFM): 0°C to +60°C (32°F to 140°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 12 V DC to 48 V DC
Input voltage range [V]	DC input: 9.6 V DC to 60 V DC
Maximum input current [A]	2 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	DC power: ±2 kV in common mode and ±1 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.15.3 S5735I-S8T4XN-T-V2

Overview

Table 4-725 Basic information about the S5735I-S8T4XN-T-V2

Item	Details
Description	S5735I-S8T4XN-T-V2 (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, HTM, DIN Rail Mounting, Dual redundant 9.6 to 60V DC power, Fanless, Only for Overseas)
Part Number	98012065
Model	S5735I-S8T4XN-T-V2
First supported version	V600R022C01

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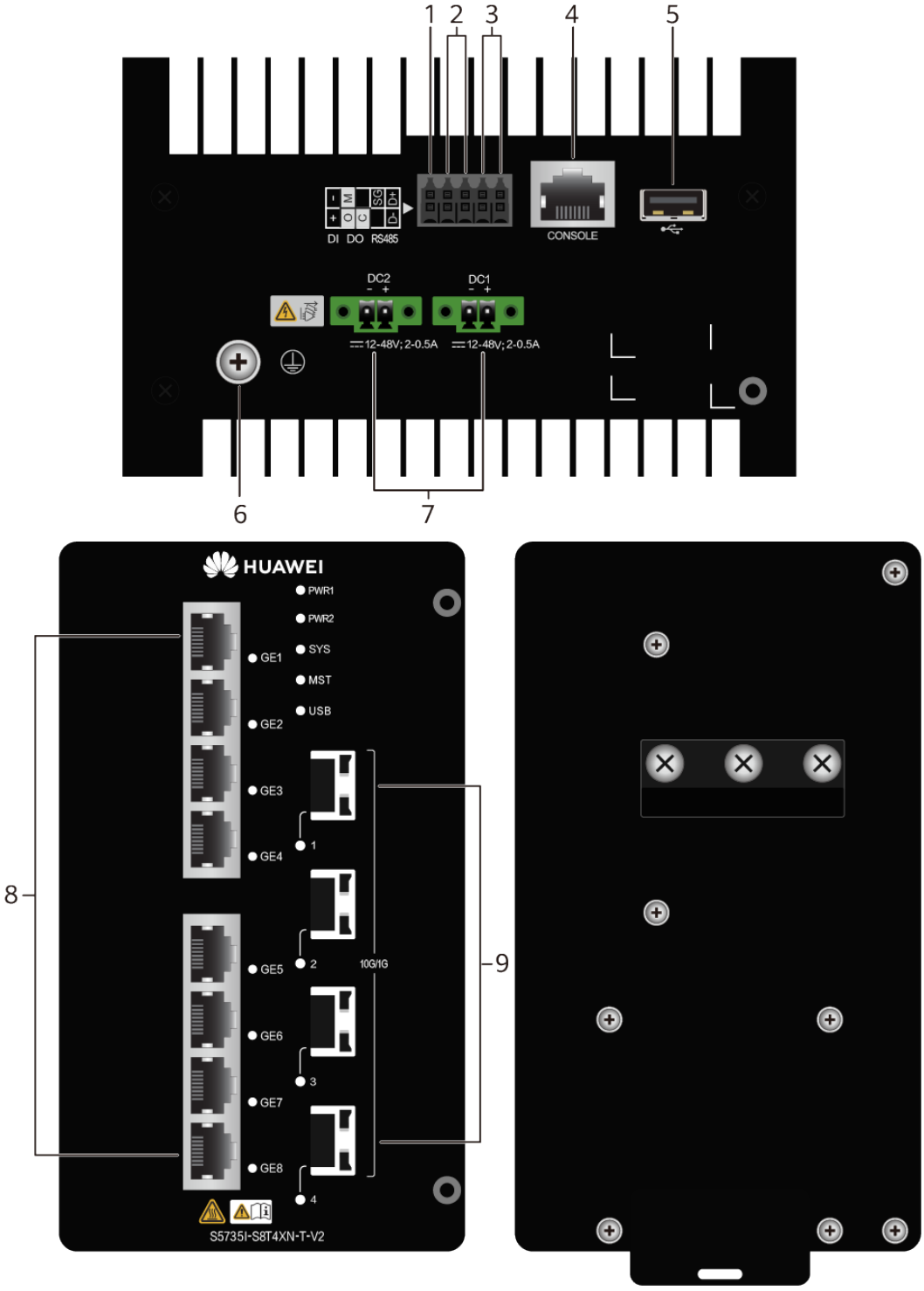
Components

Figure 4-252 S5735I-S8T4XN-T-V2 appearance



1	DI port	2	DO port

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3	RS485 port	4	One console port
5	One USB port	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Two DC input power sockets **NOTE** Applicable external power module: **PAC60S12-AN**	8	Eight 10/100/1000BASE-T ports
9	Four 10GE SFP+ ports	-	-

Ports

Figure 4-253 Typical connections of the DI port

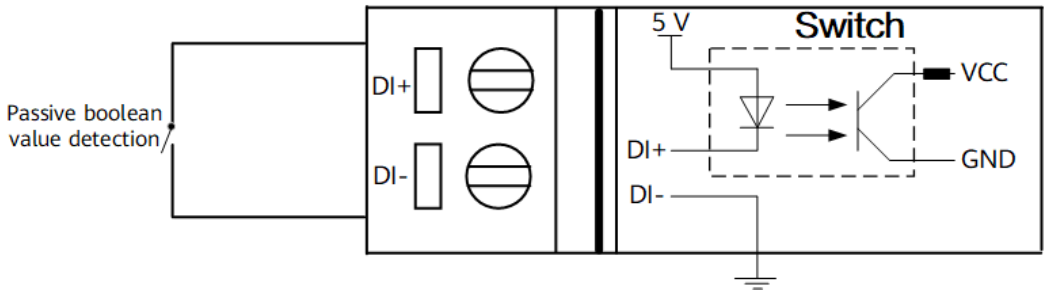

Figure 4-254 Typical connections of the DO port

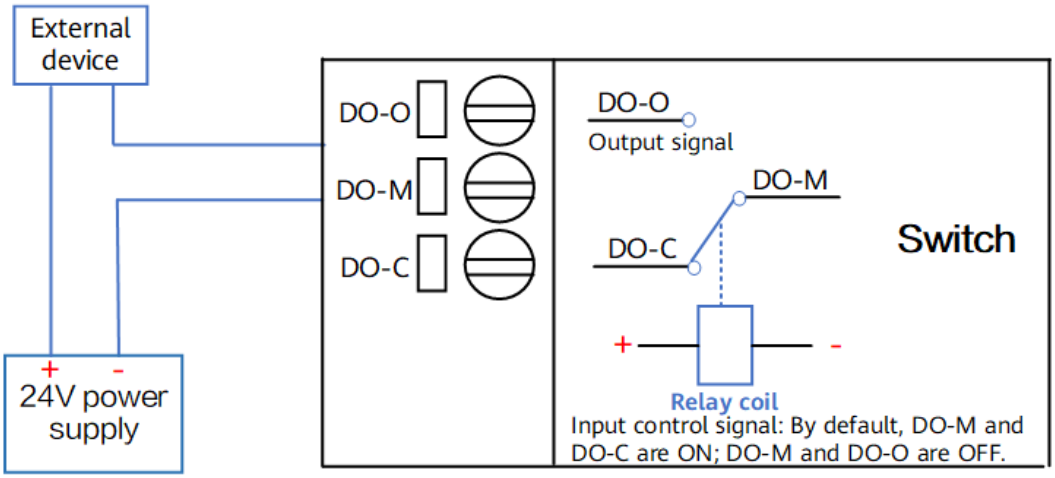

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Table 4-726 Ports on the S5735I-S8T4XN-T-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (supported in V600R022C10 and later versions, only used for stack connection in V600R022C10 version)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (supported in V600R022C10 and later versions, only used for stack connection; zero-configuration stacking supported from V600R023C00)** • **GE SFP copper module (supported in V600R023C00 and later versions, only 02314BDD is supported)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Port	Connector Type	Description	Available Components
RS-485 port	2x5-Pin Phoenix Connector	The RS-485 port is used for data collection. • Standards compliance: RS-485 • Working mode: Half-duplex • Supported rates: 1200 bit/s, 2400 bit/s, 4800 bit/s, 9600 bit/s, 19200 bit/s, 38400 bit/s, 57600 bit/s, and 115200 bit/s • Maximum number of nodes that can be mounted: 64 • Maximum communication distance: 1 km @ 9600 bit/s The default configurations of the RS-485 port are as follows: • Baud rate: 9600 bit/s • Flow control: None • Parity check: None • Stop bits: 1 • Data bits: 8	**2x5-Pin Phoenix Connector**

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Port	Connector Type	Description	Available Components
DI port	2x5-Pin Phoenix Connector	The DI port is used to check remote communication input and level signals. Signal type: Passive DI signals, Boolean value (short circuit and open circuit)	2x5-Pin Phoenix Connector
DO port	2x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	2x5-Pin Phoenix Connector

Indicators and Buttons

The S5735I-S8T4XN-T-V2 has similar indicators to those on the S5735I-S8U4XN-V2 except that the S5735I-S8T4XN-T-V2 does not have a PoE indicator. For details, see the S5735I-S8U4XN-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The switch can be directly connected to an external 12 V to 48 V DC power supply or powered by the PAC60S12-AN.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-727 Technical specifications of the S5735I-S8T4XN-T-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 86.0 mm x 133.0 mm (5.91 in. x 3.39 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 86.0 mm x 142.0 mm (6.38 in. x 3.39 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	235.0 mm x 120.0 mm x 205.0 mm (9.25 in. x 4.72 in. x 8.07 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1.76 kg (3.88 lb)
Weight with packaging [kg(lb)]	2.11 kg (4.65 lb)
Typical power consumption [W]	20.04 W
Typical heat dissipation [BTU/hour]	68.34 BTU/hour
Maximum power consumption [W]	20.55 W
Maximum heat dissipation [BTU/hour]	70.08 BTU/hour
Static power consumption [W]	14.60 W
MTBF [years]	96.10 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: • Sealed cabinet: –40°C to +65°C (–40°F to +149°F) • Vented cabinet (≥ 40 LFM): –40°C to +70°C (–40°F to +158°F) • Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 12 V DC to 48 V DC
Input voltage range [V]	DC input: 9.6 V DC to 60 V DC
Maximum input current [A]	2 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	DC power: ±2 kV in common mode and ±1 kV in differential mode
Ingress protection level (dustproof/waterproof)	IP40
Types of fans	None

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Item	Specification
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.15.4 S5735I-S8T8P2S4XN-V2

Overview

Table 4-728 Basic information about the S5735I-S8T8P2S4XN-V2

Item	Details
Description	S5735I-S8T8P2S4XN-V2 (16*10/100/1000BASE-T ports,8*POE +,2*GE SFP ports, 4*10GE SFP+ ports, DIN Rail Mounting, Dual redundant 54 to 57V DC power, Fanless)
Part Number	98012426
Model	S5735I-S8T8P2S4XN-V2
First supported version	V600R024C00

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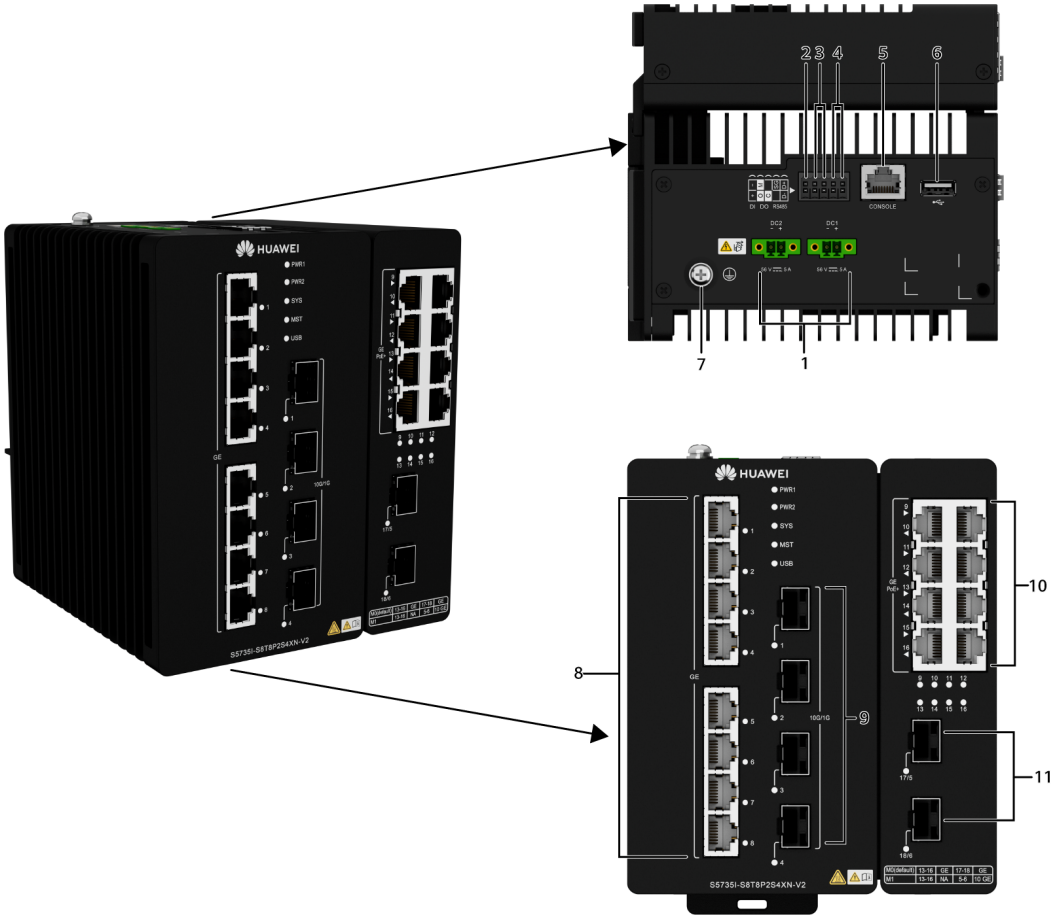
Components

Figure 4-255 S5735I-S8T8P2S4XN-V2 appearance



1	Two DC power input ports **NOTE** The following external power module can be configured: **6.2 PAC240S56-CN (240 W PoE AC&HVDC Power)**	2	DI port
3	DO port	4	RS485 port
5	One console port	6	One USB port
7	Ground screw **NOTE** It is used with a **ground cable**.	8	Eight 10/100/1000BASE-T ports

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9	Four 10GE SFP+ ports	10	Eight 10/100/1000BASE-T PoE+ ports **NOTE** You can run the **port combination-mode** command to configure the working mode of GE electrical ports, GE optical ports, and 10GE SFP+ Ethernet optical ports. By default, the M0 mode (**8 x GE electrical ports and 2 x GE/FE optical ports**) is used. You can also change this mode to M1 mode (**4 x GE electrical ports + 2 x GE/10GE optical ports**). • M0 mode (default): **8 x GE electrical ports + 2 x GE/FE optical ports**. 10GE SFP+ Ethernet optical modules cannot be installed in optical ports 5 and 6. • M1 mode: **4 x GE electrical ports + 2 x GE/10GE optical ports**. The GE electrical ports 13 to 16 are unavailable.
11	Two 1000BASE-X ports or two 10GE SFP+ ports **NOTE** You can run the **port combination-mode** command to configure the working mode of GE electrical ports, GE optical ports, and 10GE SFP+ Ethernet optical ports. By default, the M0 mode (**8 x GE electrical ports and 2 x GE/FE optical ports**) is used. You can also change this mode to M1 mode (**4 x GE electrical ports + 2 x GE/10GE optical ports**). • M0 mode (default): **8 x GE electrical ports + 2 x GE/FE optical ports**. 10GE SFP+ Ethernet optical modules cannot be installed in optical ports 5 and 6. • M1 mode: **4 x GE electrical ports + 2 x GE/10GE optical ports**. The GE electrical ports 13 to 16 are unavailable.	12	-

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Ports

Figure 4-256 Typical connections of the DI port

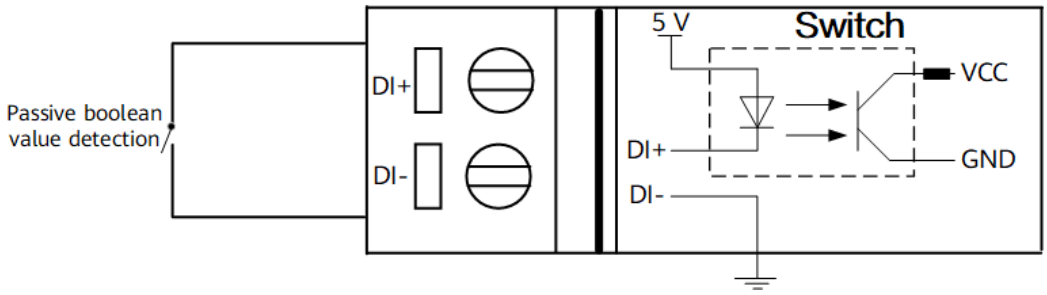

Figure 4-257 Typical connections of the DO port

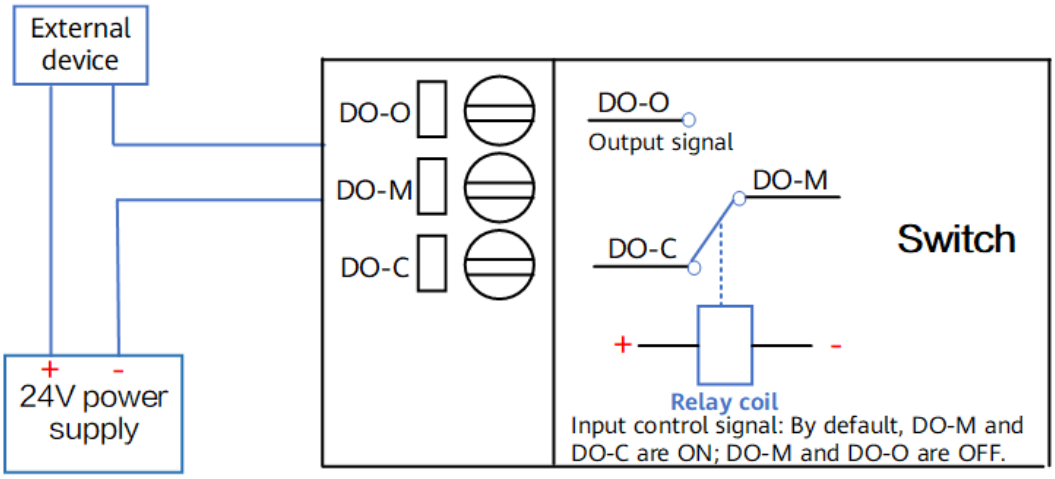

Table 4-729 Ports on the S5735I-S8T8P2S4XN-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	Ethernet cable

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules (only optical modules with 10 Gbit/s transmission speed and transmission distances less than or equal to 10 km are supported)** • **3 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **GE SFP copper module** • **PEN remote optical modules (V600R024C10 and later versions)**
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100 Mbit/s or 1000 Mbit/s. By default, the port works as a 100/1000BASE-X port. You can run the port combination-mode command to switch the working mode to 10GE SFP+. After the switching, GE electrical ports 13 to 16 are unavailable.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **GE SFP copper module**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Port	Connector Type	Description	Available Components
RS-485 port	2x5-Pin Phoenix Connector	The RS-485 port is used for data collection. • Standards compliance: RS-485 • Working mode: Half-duplex • Supported rates: 1200 bit/s, 2400 bit/s, 4800 bit/s, 9600 bit/s, 19200 bit/s, 38400 bit/s, 57600 bit/s, and 115200 bit/s • Maximum number of nodes that can be mounted: 64 • Maximum communication distance: 1 km @ 9600 bit/s The default configurations of the RS-485 port are as follows: • Baud rate: 9600 bit/s • Flow control: None • Parity check: None • Stop bits: 1 • Data bits: 8	**2x5-Pin Phoenix Connector**

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Port	Connector Type	Description	Available Components
DI port	2x5-Pin Phoenix Connector	The DI port is used to check remote communication input and level signals. Signal type: Passive DI signals, Boolean value (short circuit and open circuit)	**2x5-Pin Phoenix Connector**
DO port	2x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	**2x5-Pin Phoenix Connector**

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Indicators and Buttons

Figure 4-258 Indicators on the device

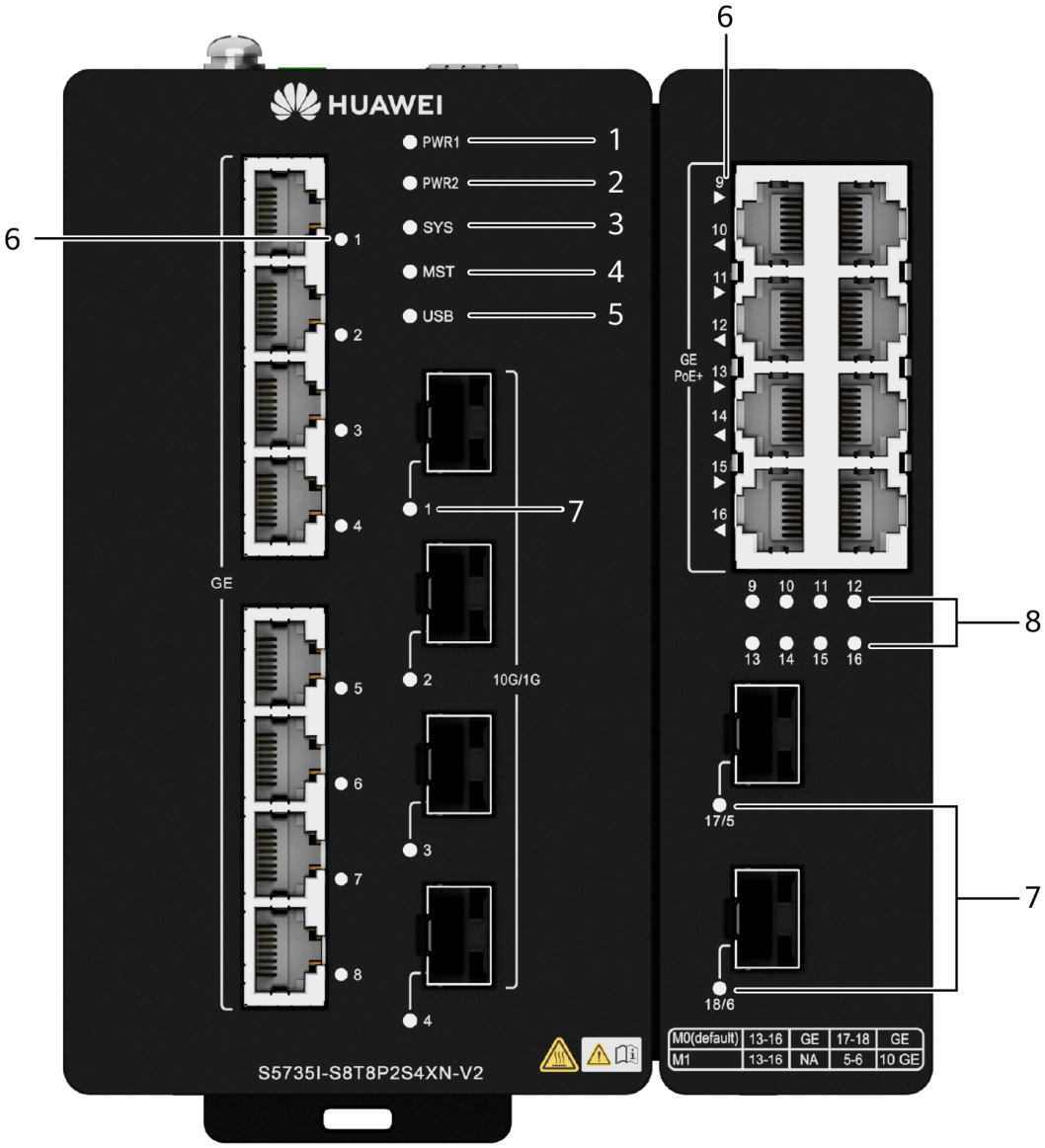

Table 4-730 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	PWR1	Indicator of power module 1	-	Steady off	Power module 1 is not supplying power or is abnormal.
			Green	Steady on	Power module 1 is supplying power properly.

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No.	Indicator	Name	Color	Status	Description
2	PWR 2	Indicator of power module 2	-	Steady off	Power module 2 is not supplying power or is abnormal.
			Green	Steady on	Power module 2 is supplying power properly.
3	SYS	System status indicator	-	Steady off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
			Red	Steady on	The system does not work normally after registration.
4	MST	Stack indicator	-	Steady off	The device is not a stack master.
			Green	Blinking	The device is a stack master or the stack is not deployed.
5	USB	USB-based deployment indicator	-	Steady off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is ongoing.
			Red	Steady on	USB-based deployment fails.

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No.	Indicator	Name	Color	Status	Description
6	1 to 16	Electrical port indicator (one indicator for each port)	For ports 9 to 16, arrowheads show their positions. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-731**.
7	1 to 6 17 and 18	Optical port indicator (one indicator for each port)	-		
8	9 to 16	Service port PoE status indicator	-	Steady off	The port is not supplying power to a powered device (PD).
			Green	Steady on	The port is supplying power to a PD.
			Green	Blinking	The PD connected to the port is not an IEEE-compliant PD or its power exceeds the maximum power or power threshold of the port.

Table 4-731 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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Power Supply System

The device can use a single power module or dual power modules for 1+1 power redundancy.

It can be directly connected to an external 56 V DC power module or a PAC240S56-CN power module.

Table 4-732 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
PAC240S56-CN	-	200 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 6
-	PAC240S56-CN	200 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 6
PAC240S56-CN	PAC240S56-CN	240 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 8
External 56 V DC power module	-	240 W (maximum)	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 8
-	External 56 V DC power module	240 W (maximum)	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 8
External 56 V DC power module	External 56 V DC power module	240 W (maximum)	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 8

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NOTE

- The PoE power supply of the device is in direct mode. The input voltage must meet the PoE standard. If the input voltage does not meet the PoE standard, the voltage on the PD side may be too low.
- If the PAC240S56-CN is used, one PAC240S56-CN can supply power to only one S5735I-S8T8P2S4XN-V2 at a time.
- If a non-Huawei external DC power supply is used, ensure that its power is greater than the calculation result of the following formula: Maximum power consumption of the device (30 W) + Number of PoE ports in use x PoE consumption of each port
- The maximum available PoE power supported by the device installed in a sealed cabinet varies in different scenarios:
  - 240 W: The ambient temperature is lower than 55°C (131°F) and no more than six optical modules are installed; or the ambient temperature is lower than 60°C (140°F) and no more than four optical modules are installed.
  - 180 W: The ambient temperature is lower than 60°C (140°F) and no more than six optical modules are installed.

Heat Dissipation System

The device has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-733 Technical specifications of the S5735I-S8T8P2S4XN-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 127.0 mm x 133.0 mm (5.91 in. x 5.00 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 127.0 mm x 142.0 mm (6.38 in. x 5.00 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 230.0 mm x 280.0 mm (6.89 in. x 9.06 in. x 11.02 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.58 kg (5.69 lb)
Weight with packaging [kg(lb)]	3.071 kg (6.77 lb)
Typical power consumption [W]	23.2 W
Typical heat dissipation [BTU/hour]	79.16 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 29.3 W • Full PoE load: 279.2 W (PoE: 240 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 79.16 • Full PoE load: 952.66 (PoE: 240 W)
Static power consumption [W]	17.1 W
MTBF [years]	56.17 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1 **NOTE** If the PAC240S56-CN is used, one PAC240S56-CN can supply power to only one S5735I-S8T8P2S2XN-V2 at a time.

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +60°C (–40°F to +140°F) ● Vented cabinet (≥ 80 LFM): –40°C to +70°C (–40°F to +158°F) ● Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +45°C (32°F to 113°F) ● Vented cabinet (≥ 80 LFM): 0°C to +55°C (32°F to 131°F) ● Blower-equipped cabinet (≥ 200 LFM): 0°C to +60°C (32°F to 140°F) **NOTE** 1. The maximum available PoE power supported by the device installed in a sealed cabinet is 240 W if the ambient temperature is lower than 60°C (140°F) and no more than four optical modules are installed. 2. The maximum available PoE power supported by the device installed in a sealed cabinet is 180 W if the ambient temperature is lower than 60°C (140°F) and no more than six optical modules are installed. 3. The maximum available PoE power supported by the device installed in a sealed cabinet is 240 W if the ambient temperature is lower than 55°C (131°F) and no more than six optical modules are installed.
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). When the ambient temperature exceeds 45°C (113°F), you are not advised to use the USB and RS-485 ports.
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing

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Item	Specification
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 56 V DC
Input voltage range [V]	DC input: 54 V DC to 57 V DC (PoE/PoE+) 48 V DC (PoE)
Maximum input current [A]	5 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	DC power: ±2 kV in common mode and ±1 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.15.5 S5735I-S8U2XN-V2

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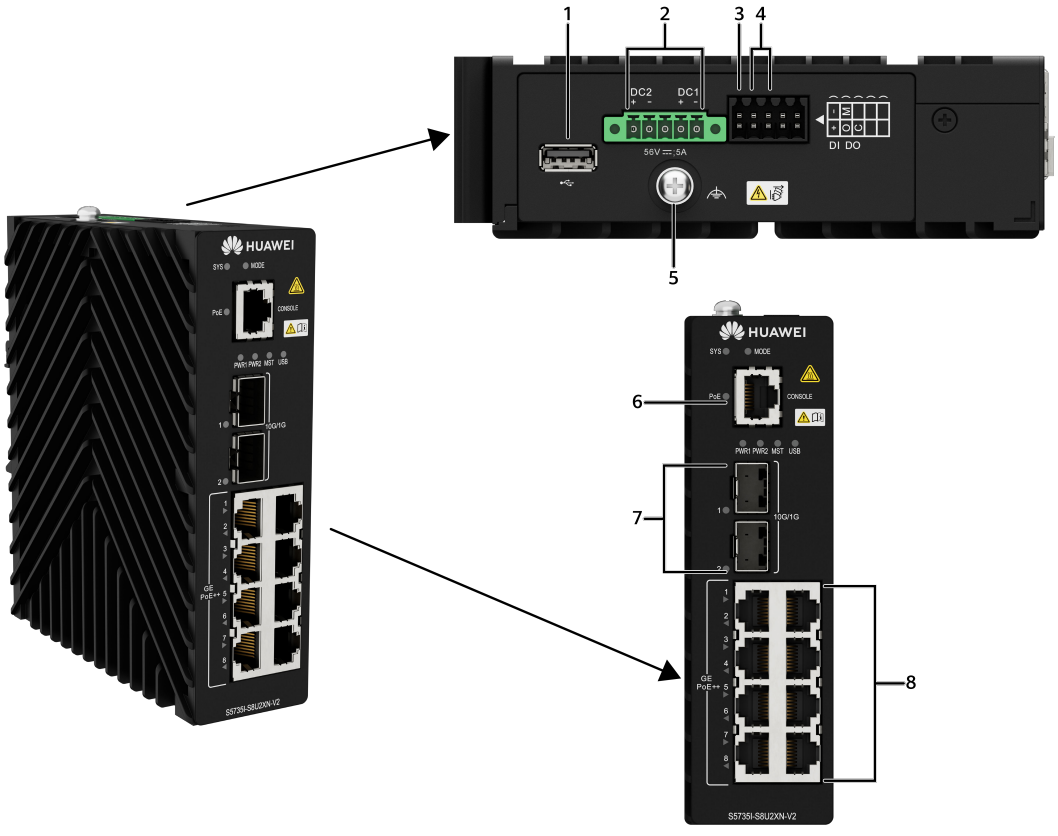
Overview

Table 4-734 Basic information about the S5735I-S8U2XN-V2

Item	Details
Description	S5735I-S8U2XN-V2 (8*10/100/1000BASE-T ports, PoE++, 2*10GE SFP+ ports, DIN Rail Mounting, Dual redundant 54 to 57V DC supply, Fanless, Without power module)
Part Number	98012686
Model	S5735I-S8U2XN-V2
First supported version	V600R024C10

Components

Figure 4-259 S5735I-S8U2XN-V2 appearance



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1	One USB port	2	Dual DC power input port **NOTE** It must be used with **9.11 5-Pin DC Power Terminal**, which are included in the auxiliary material package delivered with the device. It supports dual DC power supplies, , that is, DC1 and DC2.
3	DI port	4	DO port
5	Ground screw **NOTE** It is used with a **ground cable**.	6	One console port
7	Two 10GE SFP+ ports	8	Eight 10/100/1000BASE-T PoE++ ports

Ports

Figure 4-260 Typical connections of the DI port

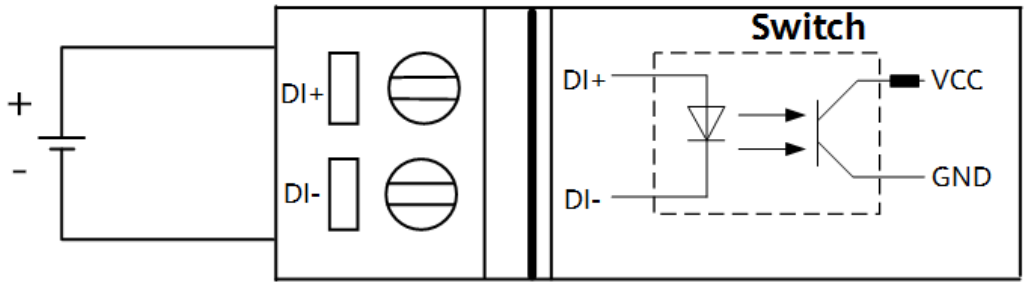

Figure 4-261 Typical connections of the DO port

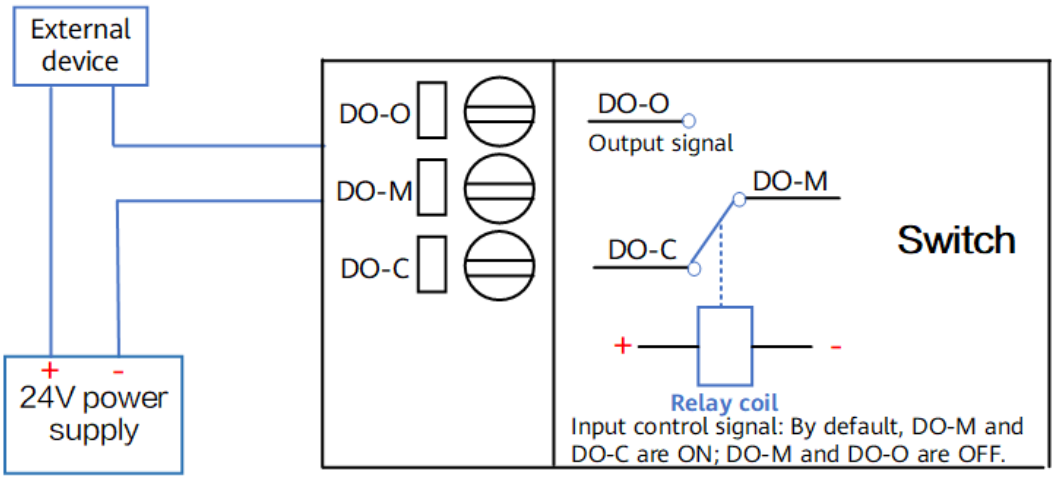

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Table 4-735 Ports on the S5735I-S8U2XN-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **GE SFP copper module** • **PEN remote optical modules (V600R024C10 and later versions)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive
DI port	2x5-Pin Phoenix Connector	The DI port is used to check active level signals. Signal type: 9.6 V to 30 V for state 1; –30 V to +3 V for state 0	**2x5-Pin Phoenix Connector**
DO port	2x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	**2x5-Pin Phoenix Connector**

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Indicators and Buttons

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Figure 4-262 Indicators on the Switch

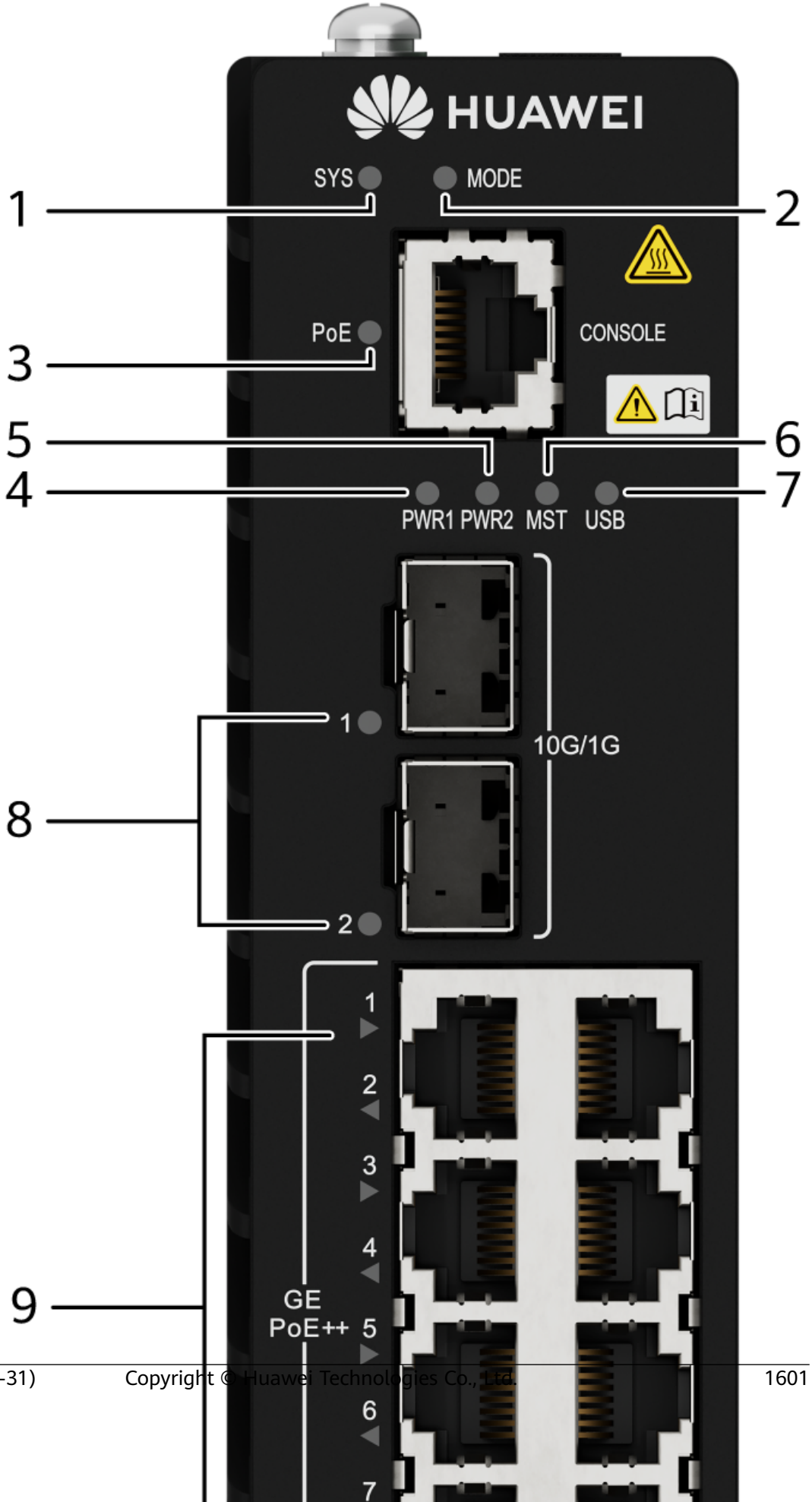

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Table 4-736 Indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
			Red	Steady on	The system does not work normally after registration, or a temperature alarm has been generated.

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No.	Indicator	Name	Color	Status	Description
2	MODE	Mode switching button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local device. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a fourth time, the service port indicators restore the default mode and show the connection status of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the MODE button for 6 seconds and release it to start the web initial login mode. Either of the following situations will occur: • If the device uses factory settings, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST indicator turns green and stays on for a maximum of 45 seconds. • Otherwise, check whether the device uses its factory default settings.
3	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
4	PWR 1	Indicator of power module 1	-	Off	The power supply 1 is not supplying power or the power supply 1 is abnormal.
			Green	Steady on	The power supply 1 is normal.
5	PWR 2	Indicator of power module 2	-	Off	The power supply 2 is not supplying power or the power supply 2 is abnormal.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	The power supply 2 is normal.
6	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The device is a standby or slave device in a stack or the stacking function is not enabled on the device. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The device is a standby or slave device in a stack, and the service port indicators show the stack ID of the device.
			Green	Blinking	• If you are not changing the indicator mode (default): The device is the master device in a stack or a standalone device with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The device is the master device in a stack or a standalone device, and the service port indicators show the stack ID of the master device. After 45 seconds, the service port indicators automatically restore the default mode.
7	USB	USB-based deployment indicator	-	Off	• No USB flash drive is connected, or the indicator fails. • The USB port is damaged. • The USB flash drive does not have any configuration file and cannot be used for deployment. • The device has been upgraded using the USB flash drive and is restarting. • An error has occurred when the system is executing the configuration file or reading data from the USB flash drive.
			Green	Steady on	USB-based deployment succeeds.

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No.	Indicator	Name	Color	Status	Description
			Green	Fast blinking	The system is reading data from a USB flash drive.
			Green	Slow blinking	The device has copied all the required files and completed the file check. The USB flash drive can be removed from the device.
6	1 to 2	Optical port indicator (one indicator for each port)	-		Meanings of service port indicators vary in different modes. For details, see **Table 4-737**.
7	1 to 8	Electrical port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		

Table 4-737 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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Display Mode	Color	Status	Description
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy.

It can directly connect to the external power module with 56 V DC power or the PAC240S56-CN power module.

Table 4-738 Power supply configurations

Power Supply 1	Power Supply 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
PAC240S56-CN	-	210 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 7 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
-	PAC240S56-CN		
PAC240S56-CN	PAC240S56-CN	240W	• 802.3af (15.4 W per port): 15 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2

NOTE

The PoE power supply of S5735I-S8U2XN-V2 is in direct mode. The input voltage must meet the PoE standard. If the input voltage does not meet the PoE standard, the voltage on the PD side may be too low.

If the PAC240S56-CN is used, one PAC240S56-CN can supply power to only one S5735I-S8U2XN-V2 at a time.

Use the 240 W power module (PAC240S56-CN) recommended by Huawei to provide a maximum of 210 W PoE capability by default. You can run the **poe max-power** command to set the maximum PoE power.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-739 Technical specifications of the S5735I-S8U2XN-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 44.0 mm x 133.0 mm (5.91 in. x 1.73 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 44.0 mm x 142.0 mm (6.38 in. x 1.73 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	113.0 mm x 233.0 mm x 188.0 mm (4.45 in. x 9.17 in. x 7.40 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1 kg (2.2 lb)
Weight without packaging (full configuration) [kg(lb)]	1 kg (2.2 lb)
Weight with packaging [kg(lb)]	1.3 kg(lb)
Typical power consumption [W]	11.4 (54 V power module, 30% traffic, excluding the power consumption of optical modules)
Typical heat dissipation [BTU/hour]	38.9 BTU/hour
Maximum power consumption [W]	Without PoE: 18.3 W Full PoE load: 265 W (PoE: 240 W)
Maximum heat dissipation [BTU/hour]	Without PoE: 62.5 Full PoE load: 904.2 (PoE: 818.9)
Static power consumption [W]	9.2 W
MTBF [years]	73 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0

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Item	Specification
Number of fans modules	0
Redundant power supply	1+1 **NOTE** If the PAC240S56-CN is used, one PAC240S56-CN can supply power to only one S5735I-S8U2XN-V2 at a time.
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +60°C (–40°F to +140°F) ● Vented cabinet (≥ 40 LFM): –40°C to +70°C (–40°F to +158°F) ● Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +45°C (32°F to 113°F) ● Vented cabinet (≥ 40 LFM): 0°C to +55°C (32°F to 131°F) ● Blower-equipped cabinet (≥ 200 LFM): 0°C to +60°C (32°F to 140°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 56 V DC
Input voltage range [V]	DC input: 54 V DC to 57 V DC (PoE/PoE+/PoE++) 48 V DC (PoE)
Maximum input current [A]	6 A
Memory	2 GB

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Item	Specification
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	DC power module: ±4 kV in common mode and ±2 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.15.6 S5735I-S8U4XN-V2

Overview

Table 4-740 Basic information about the S5735I-S8U4XN-V2

Item	Details
Description	S5735I-S8U4XN-V2 (8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, PoE++, DIN Rail Mounting, Dual redundant 54 to 57V DC power, Fanless)
Part Number	98012066
Model	S5735I-S8U4XN-V2
First supported version	V600R022C01

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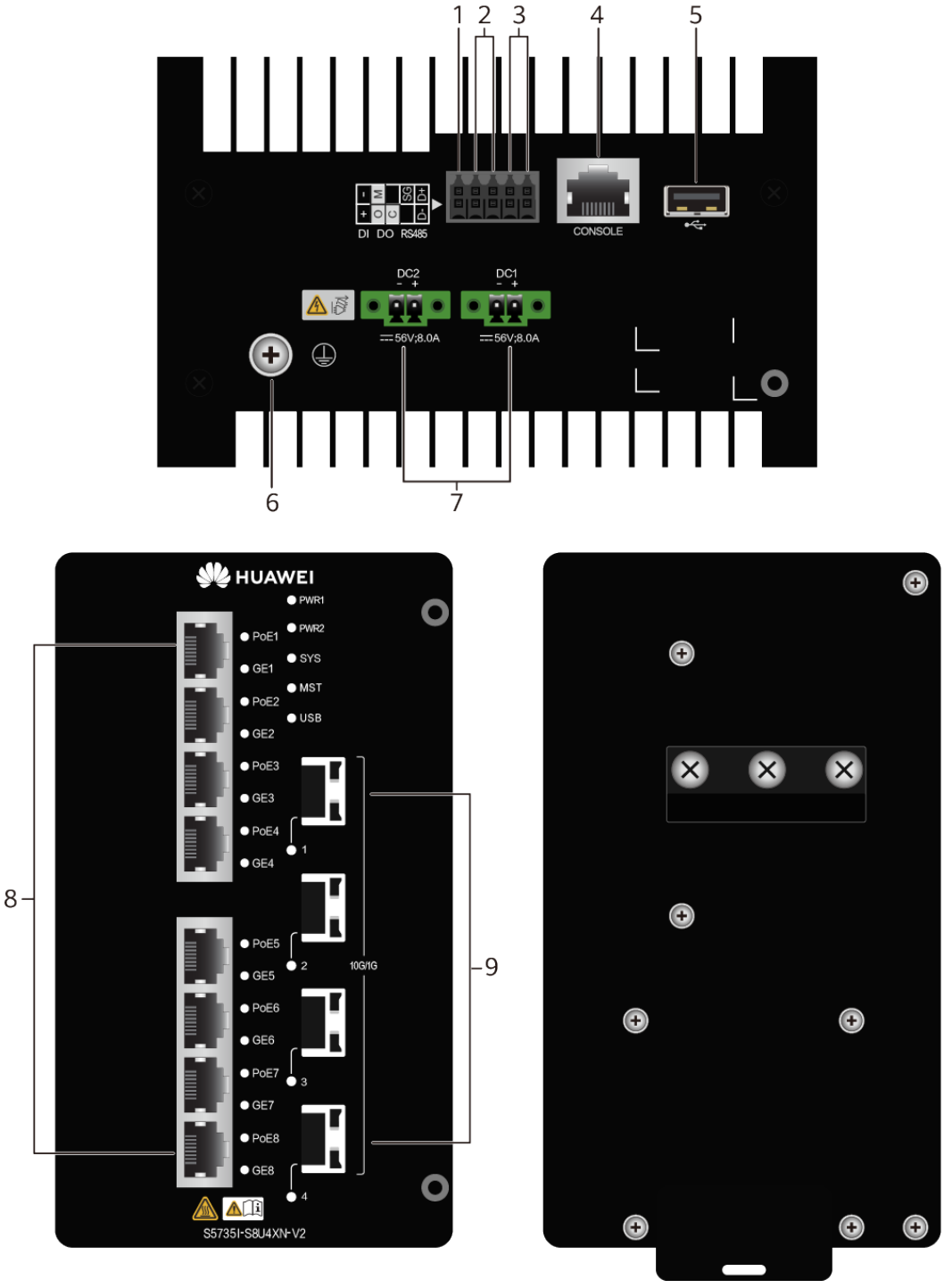
Components

Figure 4-263 S5735I-S8U4XN-V2 appearance



1	DI port	2	DO port
3	RS485 port	4	One console port

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5	One USB port	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Two DC input power sockets **NOTE** Applicable external power module: **6.2 PAC240S56-CN (240 W PoE AC&HVDC Power)**	8	Eight 10/100/1000BASE-T PoE++ ports
9	Four 10GE SFP+ ports	-	-

Ports

Figure 4-264 Typical connections of the DI port

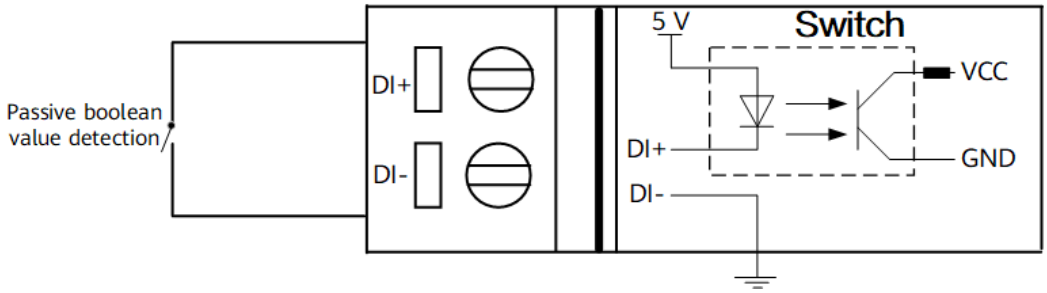

Figure 4-265 Typical connections of the DO port

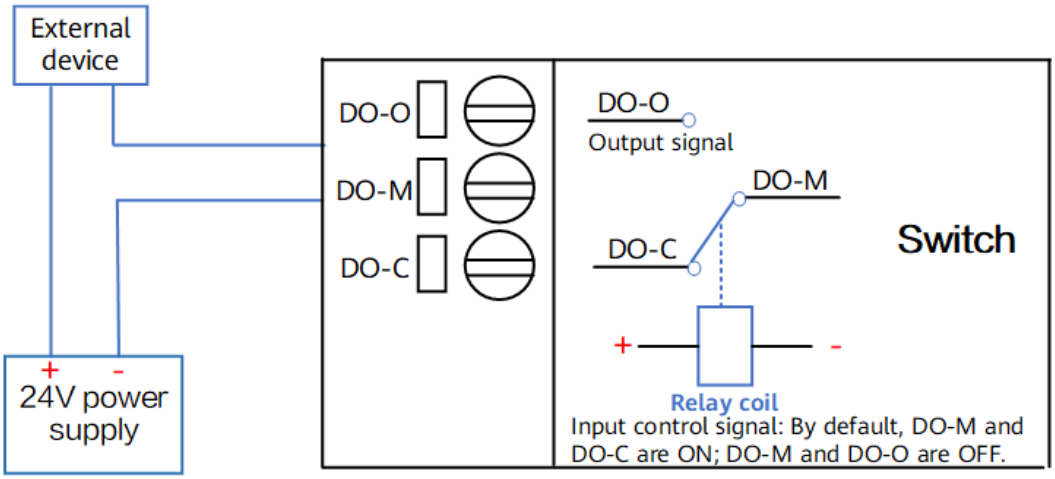

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Table 4-741 Ports on the S5735I-S8U4XN-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (supported in V600R022C10 and later versions, only used for stack connection in V600R022C10 version)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (supported in V600R022C10 and later versions, only used for stack connection; zero-configuration stacking supported from V600R023C00)** • **GE SFP copper module (supported in V600R023C00 and later versions, only 02314BDD is supported)** • **PEN remote optical modules (V600R024C10 and later versions)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Port	Connector Type	Description	Available Components
RS-485 port	2x5-Pin Phoenix Connector	The RS-485 port is used for data collection. • Standards compliance: RS-485 • Working mode: Half-duplex • Supported rates: 1200 bit/s, 2400 bit/s, 4800 bit/s, 9600 bit/s, 19200 bit/s, 38400 bit/s, 57600 bit/s, and 115200 bit/s • Maximum number of nodes that can be mounted: 64 • Maximum communication distance: 1 km @ 9600 bit/s The default configurations of the RS-485 port are as follows: • Baud rate: 9600 bit/s • Flow control: None • Parity check: None • Stop bits: 1 • Data bits: 8	**2x5-Pin Phoenix Connector**

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Port	Connector Type	Description	Available Components
DI port	2x5-Pin Phoenix Connector	The DI port is used to check remote communication input and level signals. Signal type: Passive DI signals, Boolean value (short circuit and open circuit)	**2x5-Pin Phoenix Connector**
DO port	2x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	**2x5-Pin Phoenix Connector**

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Indicators and Buttons

Figure 4-266 Indicators on the Switch

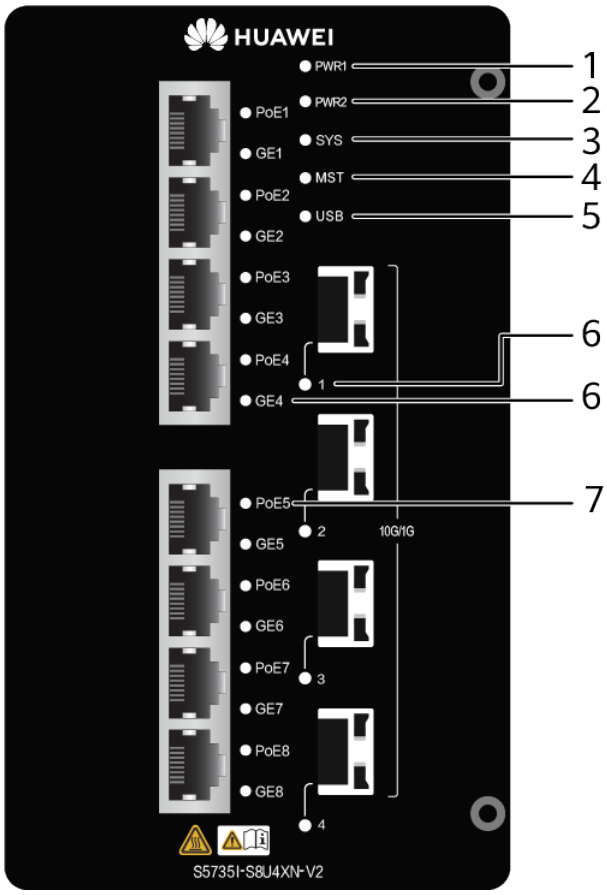

Table 4-742 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Power module 1 indicator	-	Off	The power supply 1 is not supplying power or the power supply 1 is abnormal.
			Green	Steady on	The power supply 1 is normal.
2	PWR 2	Power module 2 indicator	-	Off	The power supply 2 is not supplying power or the power supply 2 is abnormal.
			Green	Steady on	The power supply 2 is normal.
3	SYS	System status indicator	-	Off	The system is not running.

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No.	Indicator	Name	Color	Status	Description
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
5	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.
6	GE1-GE8 1-4	Service port indicator	Meanings of service port indicators vary in different modes. For details, see **Table 4-743**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.		

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No.	Indicator	Name	Color	Status	Description
7	PoE1 - PoE8	Service port PoE status indicator	-	Off	The port is not providing power to a powered device (PD).
			Green	Steady on	The port is providing power to a PD.
			Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

Table 4-743 Description of service port indicators in different modes

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1000BASE-X port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy.

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It can directly connect to the external power module with 56 V DC power or the PAC240S56-CN power module.

Table 4-744 Power supply configurations

Power Supply 1	Power Supply 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
PAC240S56-CN	-	210 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 7 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
PAC240S56-CN	PAC240S56-CN	210 W	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 7 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
External power module with 56 V DC power supply	-	400 W at most	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
External power module with 56 V DC power supply	External power module with 56 V DC power supply	400 W at most	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4

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NOTE

The PoE power supply of S5735I-S8U4XN-V2 is in direct mode. The input voltage must meet the PoE standard. If the input voltage does not meet the PoE standard, the voltage on the PD side may be too low.

If the PAC240S56-CN is used, one PAC240S56-CN can supply power to only one S5735I-S8U4XN-V2 at a time.

If a non-Huawei external DC power supply is used, ensure that it meets the following requirement:

Maximum power consumption of the device (30 W) + Number of PoE ports in use x PoE consumption of each port

The maximum available PoE power supported by the switch is subject to the following restrictions:

- The maximum available PoE power is 400 W: The ambient temperature must be lower than 55°C. The switch supports a maximum of four optical modules.
- The maximum available PoE power is 240 W: The ambient temperature must be lower than 60°C. The switch supports a maximum of four optical modules.
- The maximum available PoE power is 180 W: The ambient temperature must be lower than 65°C. The switch supports a maximum of two optical modules.
- Use the 240 W power module (PAC240S56-CN) recommended by Huawei to provide a maximum of 210 W PoE capability by default. You can run the **poe max-power** command to set the maximum PoE power.
- If the 240 W power supply (PAC240S56-CN) is not used, an external power supply with 400 W PoE capability is recommended.
- If the PoE power supply capability of the external power supply is less than 400 W, run the **poe max-power** command to configure the maximum PoE power to reserve the power consumption of the device. Otherwise, the device may be powered off due to total power overload.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-745 Technical specifications of the S5735I-S8U4XN-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 86.0 mm x 133.0 mm (5.91 in. x 3.39 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 86.0 mm x 142.0 mm (6.38 in. x 3.39 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	235.0 mm x 120.0 mm x 205.0 mm (9.25 in. x 4.72 in. x 8.07 in.)
Chassis height [U]	3.65 U

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Item	Specification
Chassis material	Metal
Weight without packaging [kg(lb)]	1.86 kg (4.1 lb)
Weight with packaging [kg(lb)]	2.21 kg (4.87 lb)
Typical power consumption [W]	20.45 W
Typical heat dissipation [BTU/hour]	69.74 BTU/hour
Maximum power consumption [W]	• Without PoE: 21.7 W • Full PoE load: 421.7 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 74.01 • Full PoE load: 1438.11 (PoE: 1364.10)
Static power consumption [W]	15.56 W
MTBF [years]	89.43 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1 **NOTE** If the PAC240S56-CN power module is used, one PAC240S56-CN can supply power to only one S5735I-S8U4XN-V2 at a time.

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +60°C (–40°F to +140°F) ● Vented cabinet (≥ 80 LFM): –40°C to +70°C (–40°F to +158°F) ● Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +45°C (32°F to 113°F) ● Vented cabinet (≥ 80 LFM): 0°C to +55°C (32°F to 131°F) ● Blower-equipped cabinet (≥ 200 LFM): 0°C to +60°C (32°F to 140°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 56 V DC
Input voltage range [V]	DC input: 54 V DC to 57 V DC (PoE/PoE+/PoE++) 48 V DC (PoE)
Maximum input current [A]	8.0 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported

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Item	Specification
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	DC power: ±2 kV in common mode and ±1 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.15.7 S5735I-S16T2S4XN-V2

Overview

Table 4-746 Basic information about the S5735I-S16T2S4XN-V2

Item	Details
Description	S5735I-S16T2S4XN-V2 (16*10/100/1000BASE-T ports,2*GE SFP ports,4*10GE SFP+ ports, DIN Rail Mounting, Dual redundant 9.6 to 60V DC power, Fanless)
Part Number	98012427
Model	S5735I-S16T2S4XN-V2
First supported version	V600R024C00

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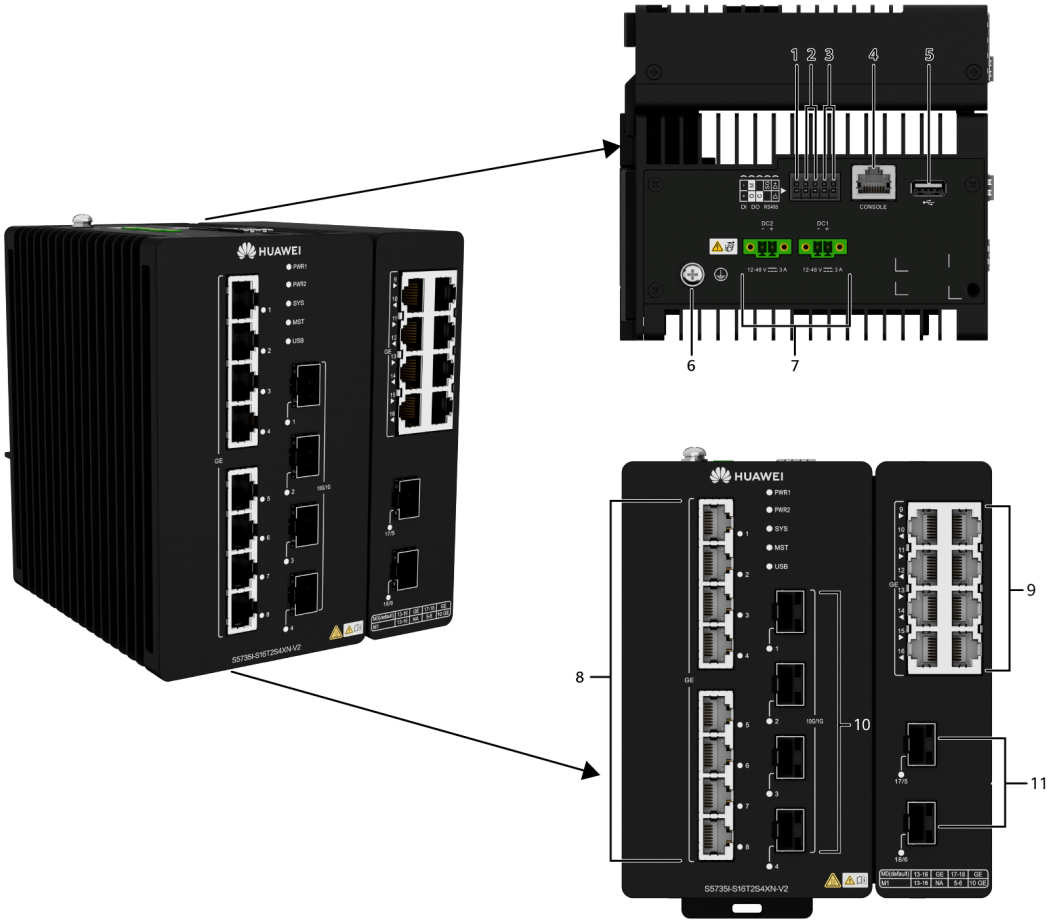
Components

Figure 4-267 S5735I-S16T2S4XN-V2 appearance



1	DI port	2	DO port
3	RS485 port	4	One console port
5	One USB port	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Two DC power input ports **NOTE** The following external power module can be configured: **PAC60S12-AN**	8	Eight 10/100/1000BASE-T ports

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9	Eight 10/100/1000BASE-T ports **NOTE** You can run the **port combination-mode** command to configure the working mode of GE electrical ports, GE optical ports, and 10GE SFP+ Ethernet optical ports. By default, the M0 mode (**8 x GE electrical ports and 2 x GE/FE optical ports**) is used. You can also change this mode to M1 mode (**4 x GE electrical ports + 2 x GE/10GE optical ports**). ● M0 mode (default): **8 x GE electrical ports + 2 x GE/FE optical ports**. 10GE SFP+ Ethernet optical modules cannot be installed in optical ports 5 and 6. ● M1 mode: **4 x GE electrical ports + 2 x GE/10GE optical ports**. The GE electrical ports 13 to 16 are unavailable.	10	Four 10GE SFP+ ports
11	Two 1000BASE-X ports or two 10GE SFP+ ports **NOTE** You can run the **port combination-mode** command to configure the working mode of GE electrical ports, GE optical ports, and 10GE SFP+ Ethernet optical ports. By default, the M0 mode (**8 x GE electrical ports and 2 x GE/FE optical ports**) is used. You can also change this mode to M1 mode (**4 x GE electrical ports + 2 x GE/10GE optical ports**). ● M0 mode (default): **8 x GE electrical ports + 2 x GE/FE optical ports**. 10GE SFP+ Ethernet optical modules cannot be installed in optical ports 5 and 6. ● M1 mode: **4 x GE electrical ports + 2 x GE/10GE optical ports**. The GE electrical ports 13 to 16 are unavailable.	12	-

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Ports

Figure 4-268 Typical connections of the DI port

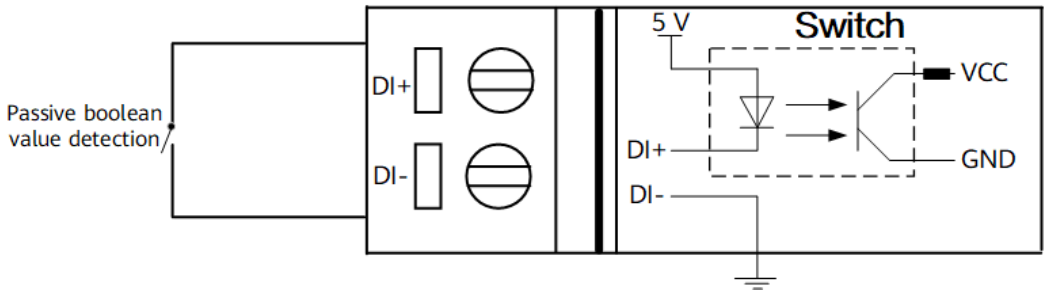

Figure 4-269 Typical connections of the DO port

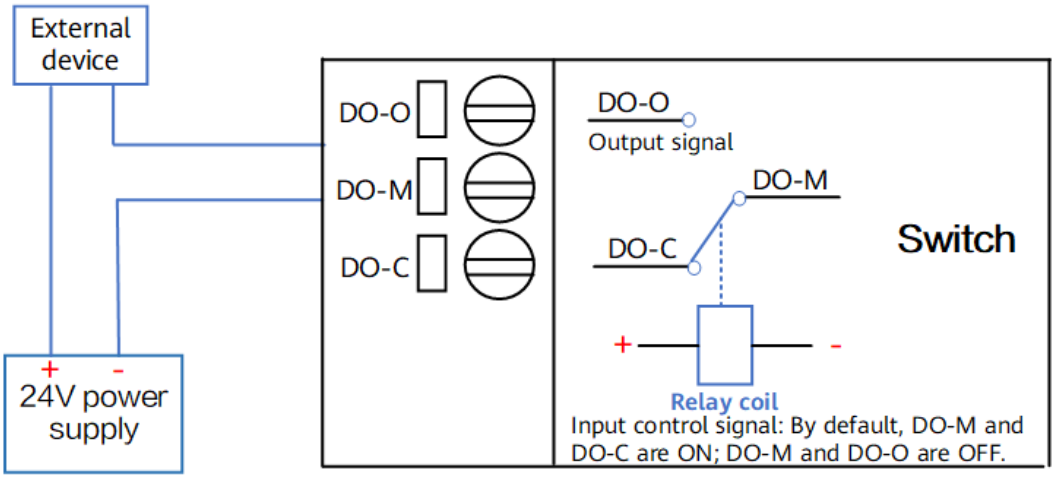

Table 4-747 Ports on the S5735I-S16T2S4XN-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	Ethernet cable

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules (only optical modules with 10 Gbit/s transmission speed and transmission distances less than or equal to 10 km are supported)** • **3 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **GE SFP copper module** • **PEN remote optical modules (V600R024C10 and later versions)**
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100 Mbit/s or 1000 Mbit/s. By default, the port works as a 100/1000BASE-X port. You can run the port combination-mode command to switch the working mode to 10GE SFP+. After the switching, GE electrical ports 13 to 16 are unavailable.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **GE SFP copper module**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Port	Connector Type	Description	Available Components
RS-485 port	2x5-Pin Phoenix Connector	The RS-485 port is used for data collection. • Standards compliance: RS-485 • Working mode: Half-duplex • Supported rates: 1200 bit/s, 2400 bit/s, 4800 bit/s, 9600 bit/s, 19200 bit/s, 38400 bit/s, 57600 bit/s, and 115200 bit/s • Maximum number of nodes that can be mounted: 64 • Maximum communication distance: 1 km @ 9600 bit/s The default configurations of the RS-485 port are as follows: • Baud rate: 9600 bit/s • Flow control: None • Parity check: None • Stop bits: 1 • Data bits: 8	**2x5-Pin Phoenix Connector**

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Port	Connector Type	Description	Available Components
DI port	2x5-Pin Phoenix Connector	The DI port is used to check remote communication input and level signals. Signal type: Passive DI signals, Boolean value (short circuit and open circuit)	**2x5-Pin Phoenix Connector**
DO port	2x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	**2x5-Pin Phoenix Connector**

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Indicators and Buttons

Figure 4-270 Indicators on the device

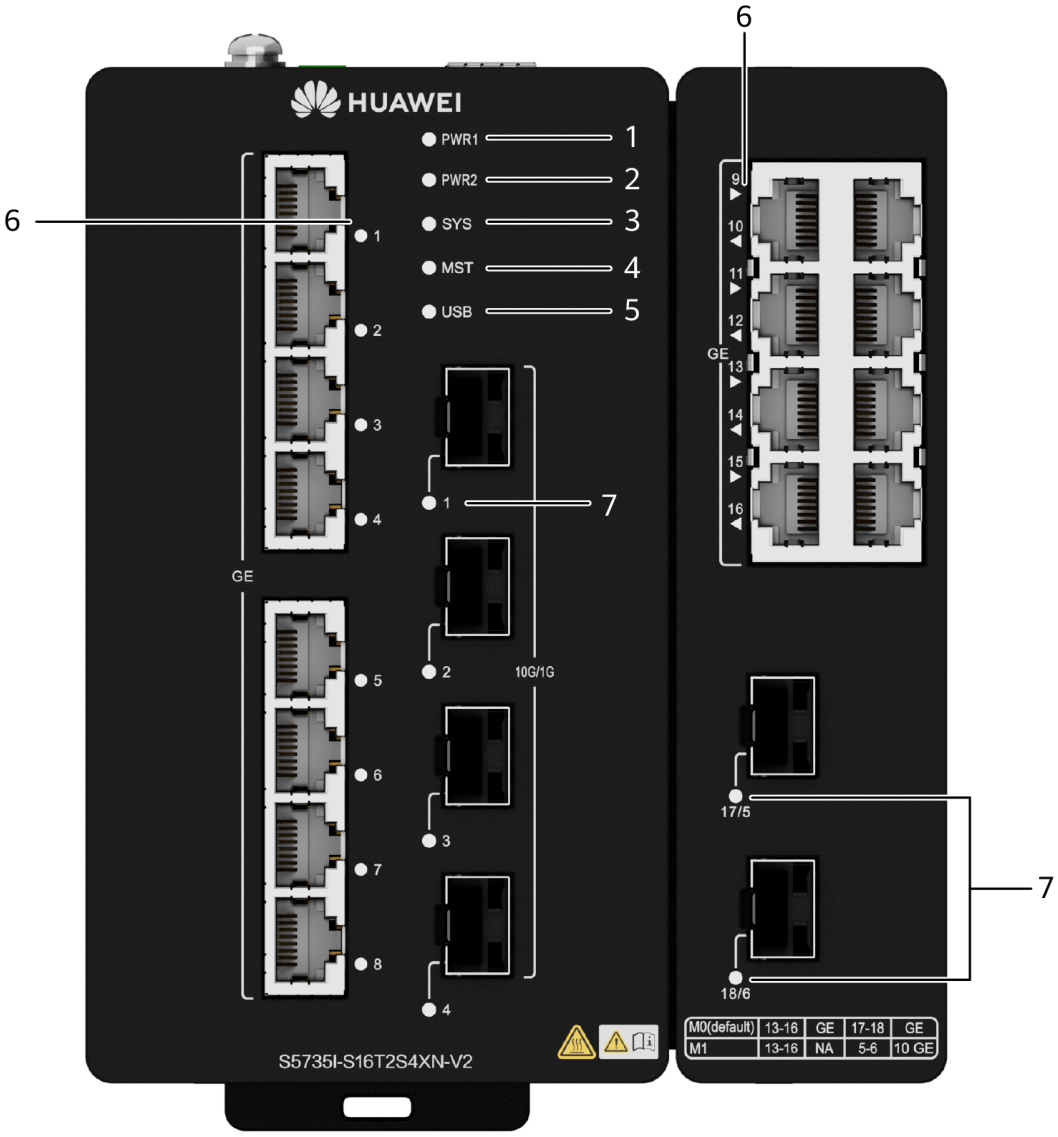

Table 4-748 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Indicator of power module 1	-	Steady off	Power module 1 is not supplying power or is abnormal.
			Green	Steady on	Power module 1 is supplying power properly.
2	PWR 2	Indicator of power module 2	-	Steady off	Power module 2 is not supplying power or is abnormal.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	Power module 2 is supplying power properly.
3	SYS	System status indicator	-	Steady off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
			Red	Steady on	The system does not work normally after registration.
4	MST	Stack indicator	-	Steady off	The device is not a stack master.
			Green	Blinking	The device is a stack master or the stack is not deployed.
5	USB	USB-based deployment indicator	-	Steady off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is ongoing.
			Red	Steady on	USB-based deployment fails.

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No.	Indicator	Name	Color	Status	Description
6	1 to 16	Electrical port indicator (one indicator for each port)	For ports 9 to 16, arrowheads show their positions. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-749**.
7	1 to 6 17 and 18	Optical port indicator (one indicator for each port)	-		

Table 4-749 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

Power Supply System

The device can use a single power module or dual power modules for 1+1 power redundancy. It can be directly connected to an external 12 V to 48 V DC power module or a PAC60S12-AN power module.

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NOTE

When the device is installed in a sealed cabinet and uses low-voltage input, the following restrictions apply:

- When the input voltage is 24 V to 48 V and the ambient temperature is lower than or equal to 65°C (149°F), a maximum of two optical modules can be installed.
- When the input voltage is 10.8 V to 60 V and the ambient temperature is lower than or equal to 60°C (140°F), a maximum of six optical modules can be installed.
- When the input voltage is 9.6 V to 10.8 V and the ambient temperature is lower than or equal to 60°C (140°F), a maximum of two optical modules can be installed.

Heat Dissipation System

The device has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-750 Technical specifications of the S5735I-S16T2S4XN-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 127.0 mm x 133.0 mm (5.91 in. x 5.00 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 127.0 mm x 142.0 mm (6.38 in. x 5.00 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 230.0 mm x 280.0 mm (6.89 in. x 9.06 in. x 11.02 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.527 kg (5.57 lb)
Weight with packaging [kg(lb)]	3.019 kg (6.66 lb)
Typical power consumption [W]	22.3 W
Typical heat dissipation [BTU/hour]	76.09 BTU/hour
Maximum power consumption [W]	31.3 W @ 10.8 V 27.5 W @ 48 V
Maximum heat dissipation [BTU/hour]	106.80 @ 10.8 V 93.83 @ 48 V
Static power consumption [W]	14.5 W
MTBF [years]	62.87 years

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Item	Specification
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +60°C (–40°F to +140°F) ● Vented cabinet (≥ 80 LFM): –40°C to +70°C (–40°F to +158°F) ● Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +45°C (32°F to 113°F) ● Vented cabinet (≥ 80 LFM): 0°C to +55°C (32°F to 131°F) ● Blower-equipped cabinet (≥ 200 LFM): 0°C to +60°C (32°F to 140°F) When the device is installed in a sealed cabinet and uses low-voltage input, the following restrictions apply: 1. When the input voltage is 24 V to 48 V and the ambient temperature is lower than or equal to 65°C (149°F), a maximum of two optical modules can be installed. 2. When the input voltage is 10.8 V to 60 V and the ambient temperature is lower than or equal to 60°C (140°F), a maximum of six optical modules can be installed. 3. When the input voltage is 9.6 V to 10.8 V and the ambient temperature is lower than or equal to 60°C (140°F), a maximum of two optical modules can be installed.
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). When the ambient temperature exceeds 45°C (113°F), you are not advised to use the USB and RS-485 ports.
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)

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Item	Specification
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 12 V DC to 48 V DC
Input voltage range [V]	DC input: 9.6 V DC to 60 V DC
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	DC power: ±2 kV in common mode and ±1 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.15.8 S5735I-S16T8S4XE-QD-V2 (98012388)

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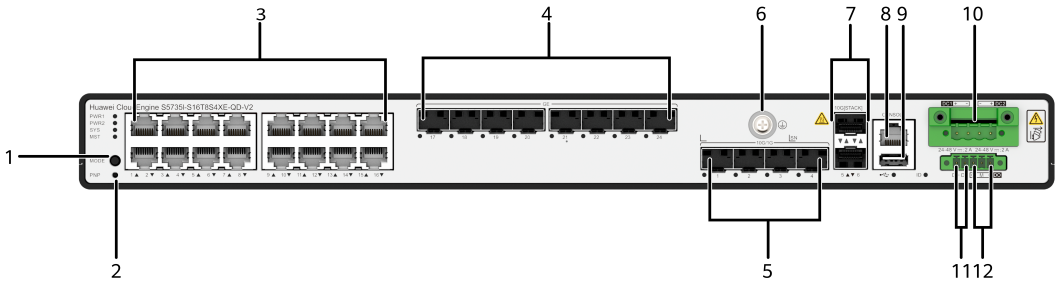
Overview

Table 4-751 Basic information about the S5735I-S16T8S4XE-QD-V2

Item	Details
Description	S5735I-S16T8S4XE-QD-V2 (16*10/100/1000BASE-T ports,8*GE SFP ports,4*10GE SFP+ ports,2*12GE stack ports,Dual DC 18-60V power,Fanless)
Part Number	98012388
Model	S5735I-S16T8S4XE-QD-V2
First supported version	V600R023C10

Components

Figure 4-271 S5735I-S16T8S4XE-QD-V2 appearance



1	One MODE button	2	One PNP button **NOTICE** If you hold down the button for at least 6 seconds, the device restores factory settings and then is reset. If you press the button, the device is reset. Resetting the device will cause service interruption. Exercise caution when you press the button.

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3	16 x 10/100/1000BASE-T ports	4	Eight 1000BASE-X ports
5	Four 10GE SFP+ optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Two stack ports **NOTE** The two stack ports can be configured as two 10GE optical ports (mode 1) by running the **port combination-mode** command.	8	One console port
9	One USB port	10	Dual DC power input port **NOTE** It must be used with 5-Pin DC Power Terminal, which are included in the auxiliary material package delivered with the device. It supports dual DC power supplies, , that is, DC1 and DC2.
11	One DI port **NOTE** It must be used with **9.12 5-Pin Phoenix Connector (DI/DO)**, which are included in the auxiliary material package delivered with the device.	12	One DO port **NOTE** It must be used with **9.12 5-Pin Phoenix Connector (DI/DO)**, which are included in the auxiliary material package delivered with the device.

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Ports

Figure 4-272 Typical connections of the DI port

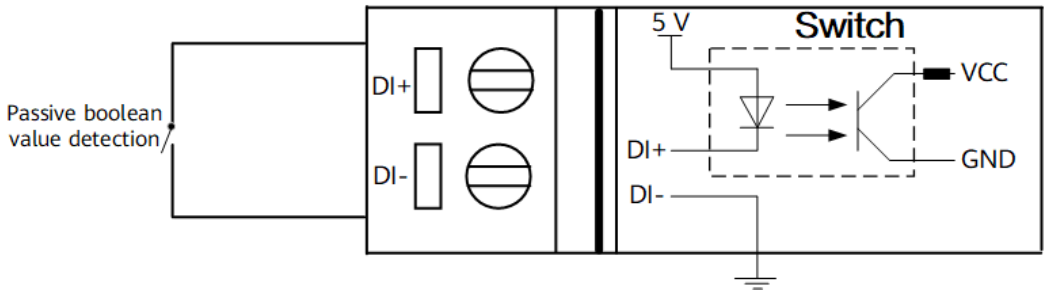

Figure 4-273 Typical connections of the DO port

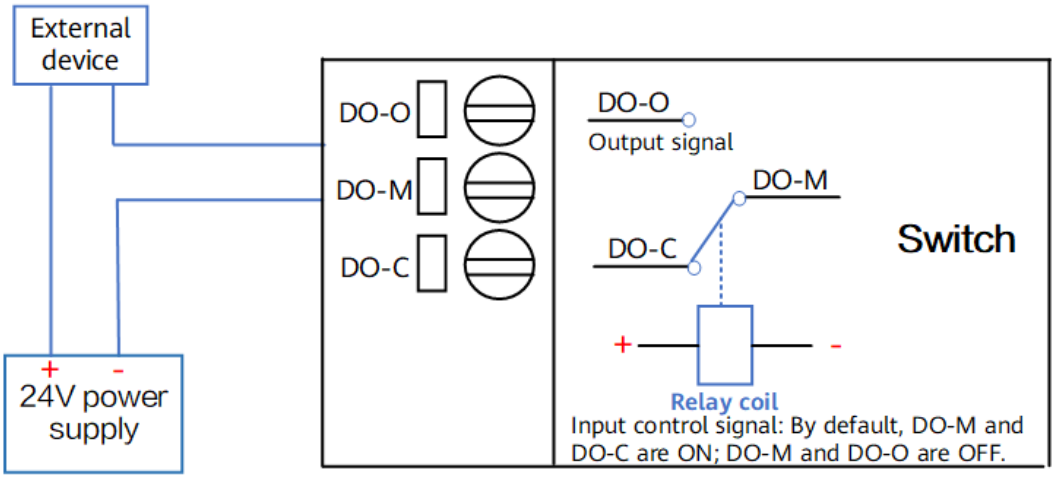

Table 4-752 Ports on the S5735I-S16T8S4XE-QD-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	Ethernet cable

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Port	Connector Type	Description	Available Components
GE SFP optical port	SFP	A GE SFP Ethernet optical port supports auto-sensing to 1000/100 Mbit/s. It sends and receives service data at 1000/100 Mbit/s. When the stack ports work in mode 1, ports 21 to 24 are unavailable.	• **Industrial optical modules** • **SFP-1000Base T (02314171)**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **PEN remote optical modules (V600R024C10 and later versions)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default. The ports can be configured to work as 10GE SFP + optical ports in mode 1 from V600R024C10 and later versions.	**0.5 m and 1.5 m SFP+ dedicated stack cables** In mode 1, the following are supported: • **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **PEN remote optical modules (V600R024C10 and later versions)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive
DI port	5-Pin Phoenix Connector	The DI port is used to check remote communication input and level signals. Signal type: Passive DI signals, Boolean value (short circuit and open circuit)	5-Pin Phoenix Connector (DI/DO)

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Port	Connector Type	Description	Available Components
DO port	5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	5-Pin Phoenix Connector (DI/DO)

Indicators and Buttons

Figure 4-274 Indicators on the device

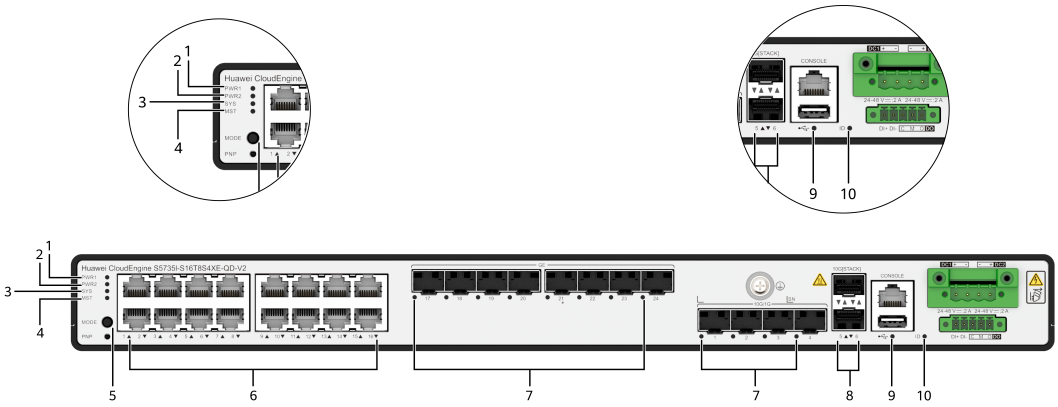

Table 4-753 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Indicator of power module 1	-	Off	Power module 1 is not supplying power or is abnormal.
			Green	Steady on	Power module 1 supplies power properly.
2	PWR 2	Indicator of power module 2	-	Off	Power module 2 is not supplying power or is abnormal.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	Power module 2 supplies power properly.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
			Red	Steady on	The system does not work normally after registration, or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The device is a standby or slave device in a stack or the stacking function is not enabled on the device. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The device is a standby or slave device in a stack, and the service port indicators show the stack ID of the device.
			Green	Blinking	• If you are not changing the indicator mode (default): The device is the master device in a stack or a standalone device with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The device is the master device in a stack or a standalone device, and the service port indicators show the stack ID of the master device. After 45 seconds, the service port indicators automatically restore the default mode.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switching button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local device. • When you press the button a second time, the device enters the customized fault status indicator mode, and all the service port indicators turn off. Then, the service port indicators show the fault status of the device based on the customized fault status indicator mode. Before switching to the customized fault status indicator mode, you need to edit OPS scripts for the customized fault status indicator and load the scripts on the device. For details, see "System Management Configuration > OPS Configuration > Example: Configuring the Customized Fault Status Indicator" in the *CLI Configuration Guide*. In this mode, the device indicates the fault status based on the fault status indicator mode defined in the OPS scripts. • When you press this button another time, the service port indicators restore the default mode and show the connection status of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** Hold down the MODE button for 6 seconds and release it to start the web initial login mode. Either of the following situations will occur: • If the device uses factory settings, the system attempts to enter the web initial login mode. • If the system enters the web initial login mode successfully, the MST indicator turns green and stays on for a maximum of 45 seconds. • Otherwise, check whether the device uses its factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	1 to 16	Electrical port indicator (one indicator for each port)	Indicator arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-754**.
7	17 to 24 1 to 4	Optical port indicator (one indicator for each port)	-		
8	5 and 6	Optical port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green).Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-755**.

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No.	Indicator	Name	Color	Status	Description
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is ongoing.
			Red	Steady on	USB-based deployment fails.
10	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The ID indicator is enabled or disabled remotely by O&M personnel for fault locating.

Table 4-754 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the device.
	Green	Steady on	The device is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the device.

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Display Mode	Color	Status	Description
	Green	Blinking	The device is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the device.

Table 4-755 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.

Power Supply System

The device has two DC power modules and does not support pluggable power modules.

Heat Dissipation System

The device has no fans and uses natural heat dissipation.

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Technical Specifications

Table 4-756 Technical specifications of the S5735I-S16T8S4XE-QD-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 335.0 mm (1.72 in. x 17.4 in. x 13.19 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 345.0 mm (1.72 in. x 17.4 in. x 13.58 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.228 kg (11.53 lb)
Weight with packaging [kg(lb)]	7.160 kg (15.78 lb)
Typical power consumption [W]	27.95 W
Typical heat dissipation [BTU/hour]	95.36 BTU/hour
Maximum power consumption [W]	36.09 W
Maximum heat dissipation [BTU/hour]	123.14 BTU/hour
Static power consumption [W]	17.72 W
MTBF [years]	49.95 years
Availability	0.99999543
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +60°C (–40°F to +140°F) ● Blower-equipped cabinet (≥ 400 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +45°C (32°F to 113°F) ● Blower-equipped cabinet (≥ 400 LFM): 0°C to +60°C (32°F to 140°F) When the stack ports are configured to work in mode 1 (10GE service port) and industrial-grade optical modules are installed: ● Sealed cabinet: –40°C to +50°C (–40°F to +122°F) ● Blower-equipped cabinet (≥ 400 LFM): –40°C to +65°C (–40°F to +149°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	- DC input: 24 V DC to 48 V DC
Input voltage range [V]	- DC input: 18 V DC to 60 V DC
Maximum input current [A]	2.1 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported

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Item	Specification
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	±2 kV in differential mode, ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.15.9 S5735I-S24T8S4XE-QA-V2

Overview

Table 4-757 Basic information about the S5735I-S24T8S4XE-QA-V2

Item	Details
Description	S5735I-S24T8S4XE-QA-V2 (24*10/100/1000BASE-T ports,8*GE SFP ports,4*10GE SFP+ ports,2*12GE stack ports,Dual AC power,Fanless)
Part Number	98012387
Model	S5735I-S24T8S4XE-QA-V2
First supported version	V600R023C10

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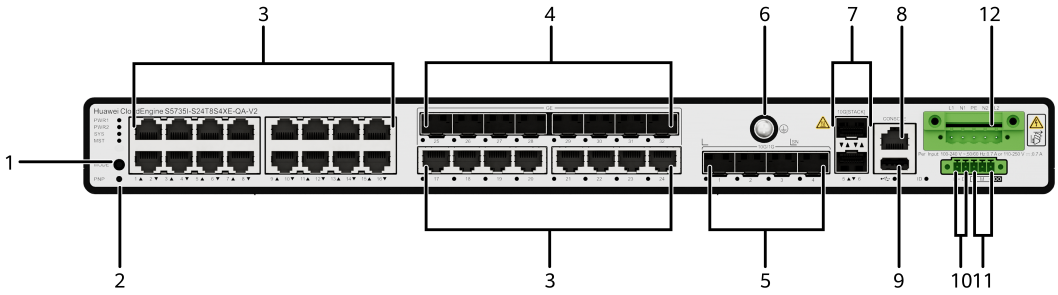
Components

Figure 4-275 S5735I-S24T8S4XE-QA-V2 appearance



1	One MODE button	2	One PNP button **NOTICE** If you hold down the button for at least 6 seconds, the device restores factory settings and then is reset. If you press the button, the device is reset. Resetting the device will cause service interruption. Exercise caution when you press the button.
3	24 x 10/100/1000BASE-T ports	4	Eight 1000BASE-X ports
5	Four 10GE SFP+ optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Two stack ports **NOTE** The two stack ports can be configured as two 10GE optical ports (mode 1) by running the **port combination-mode** command.	8	One console port

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9	One USB port	10	One DI port **NOTE** It must be used with **9.12 5-Pin Phoenix Connector (DI/DO)**, which are included in the auxiliary material package delivered with the device.
11	One DO port **NOTE** It must be used with **9.12 5-Pin Phoenix Connector (DI/DO)**, which are included in the auxiliary material package delivered with the device.	12	Dual AC power input port **NOTE** It must be used with **9.10 5-Pin AC Power Terminal**, which are included in the auxiliary material package delivered with the device. It supports dual AC power supplies, that is, L1&N1 and L2&N2.

Ports

Figure 4-276 Typical connections of the DI port

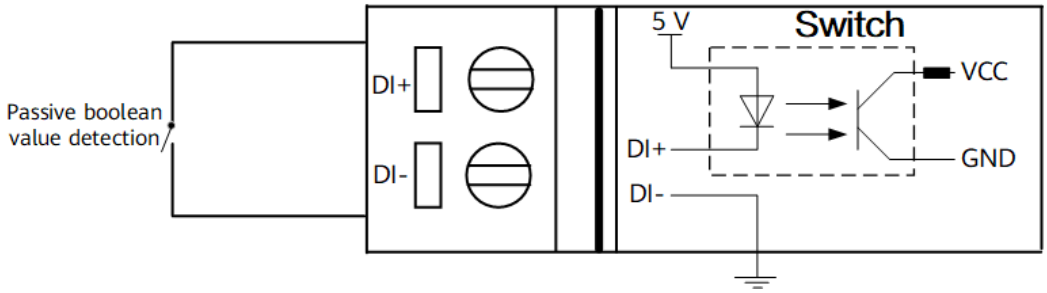

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Figure 4-277 Typical connections of the DO port

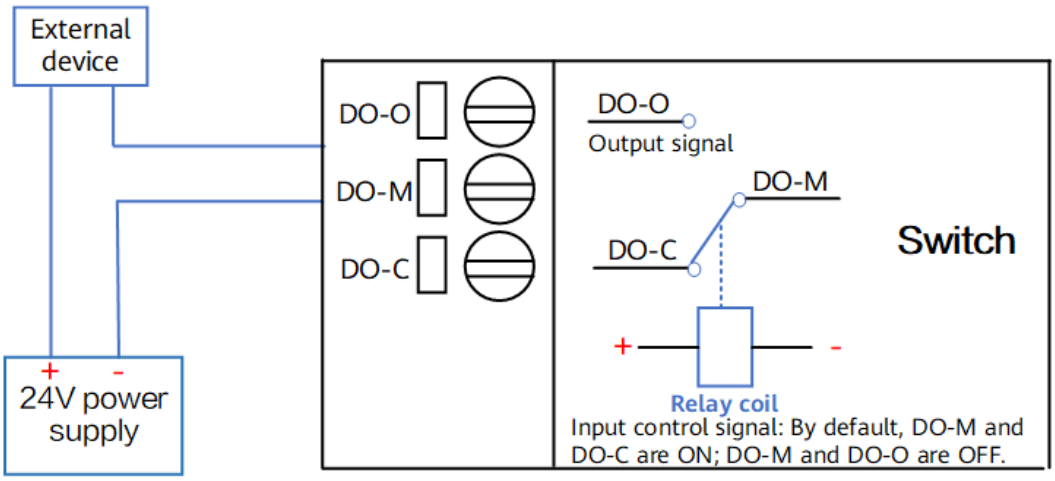

Table 4-758 Ports on the S5735I-S24T8S4XE-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
GE SFP optical port	SFP	A GE SFP Ethernet optical port supports auto-sensing to 1000/100 Mbit/s. It sends and receives service data at 1000/100 Mbit/s. When the stack ports work in mode 1, ports 29 to 32 are unavailable.	• **Industrial optical modules** • **SFP-1000BaseT (02314171)**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **PEN remote optical modules (V600R024C10 and later versions)**
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default. The ports can be configured to work as 10GE SFP + optical ports in mode 1 from V600R024C10 and later versions.	**0.5 m and 1.5 m SFP+ dedicated stack cables** In mode 1, the following are supported: • **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **PEN remote optical modules (V600R024C10 and later versions)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive
DI port	5-Pin Phoenix Connector	The DI port is used to check remote communication input and level signals. Signal type: Passive DI signals, Boolean value (short circuit and open circuit)	5-Pin Phoenix Connector (DI/DO)

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Port	Connector Type	Description	Available Components
DO port	5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	5-Pin Phoenix Connector (DI/DO)

Indicators and Buttons

Figure 4-278 Indicators on the device

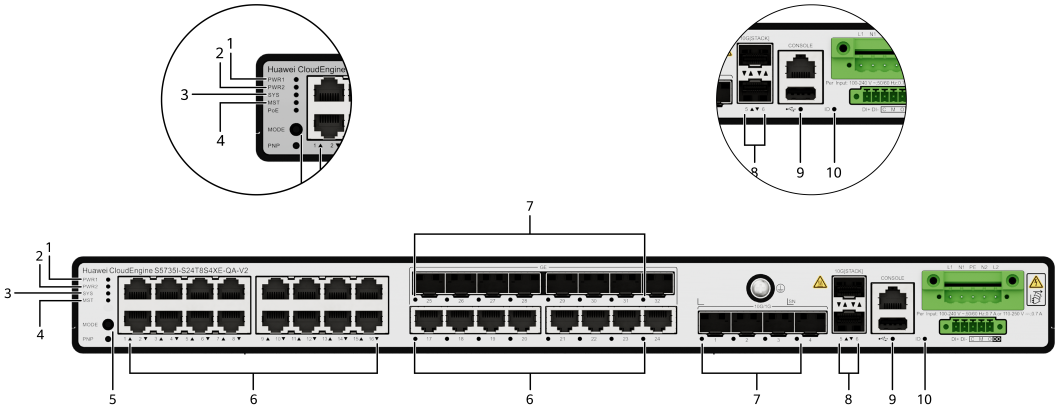

Table 4-759 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Indicator of power module 1	-	Off	Power module 1 is not supplying power or is abnormal.
			Green	Steady on	Power module 1 supplies power properly.
2	PWR 2	Indicator of power module 2	-	Off	Power module 2 is not supplying power or is abnormal.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	Power module 2 supplies power properly.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
			Red	Steady on	The system does not work normally after registration, or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The device is a standby or slave device in a stack or the stacking function is not enabled on the device. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The device is a standby or slave device in a stack, and the service port indicators show the stack ID of the device.
			Green	Blinking	• If you are not changing the indicator mode (default): The device is the master device in a stack or a standalone device with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The device is the master device in a stack or a standalone device, and the service port indicators show the stack ID of the master device. After 45 seconds, the service port indicators automatically restore the default mode.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switching button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local device. • When you press this button a fourth time, the service port indicators restore the default mode and show the connection status of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. **NOTE** Hold down the MODE button for 6 seconds and release it to start the web initial login mode. Either of the following situations will occur: • If the device uses factory settings, the system attempts to enter the web initial login mode. • If the system enters the web initial login mode successfully, the MST indicator turns green and stays on for a maximum of 45 seconds. • Otherwise, check whether the device uses its factory default settings.
6	1~24	Electrical port indicator (one indicator for each port)	Indicator arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-760**.
7	25~32 1~4	Optical port indicator (one indicator for each port)	-		

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No.	Indicator	Name	Color	Status	Description
8	5~6	Optical port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green).Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-761**.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is ongoing.
			Red	Steady on	USB-based deployment fails.
10	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The ID indicator is enabled or disabled remotely by O&M personnel for fault locating.

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Table 4-760 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the device.
	Green	Steady on	The device is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the device.
	Green	Blinking	The device is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the device.

Table 4-761 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.

Power Supply System

The device has two AC power modules and does not support pluggable power modules.

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Heat Dissipation System

The device has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-762 Technical specifications of the S5735I-S24T8S4XE-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 335.0 mm (1.72 in. x 17.4 in. x 13.19 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 345.0 mm (1.72 in. x 17.4 in. x 13.58 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.457 kg (12.03 lb)
Weight with packaging [kg(lb)]	7.389 kg (16.29 lb)
Typical power consumption [W]	33.0 (30% traffic)
Typical heat dissipation [BTU/hour]	112.6 BTU/hour
Maximum power consumption [W]	44.0 W
Maximum heat dissipation [BTU/hour]	150.2 BTU/hour
Static power consumption [W]	21.0 W
MTBF [years]	50.5283885 years
Availability	0.99999548
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0

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Item	Specification
Redundant power supply	1+1
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Full service load, sealed cabinet: –40°C to +60°C (–40°F to +140°F) ● Optical modules not installed on two GE optical ports, sealed cabinet: –40°C to +65°C (–40°F to +149°F) ● Blower-equipped cabinet (≥ 400 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Full service load, sealed cabinet: 0°C to +45°C (32°F to 113°F) ● Optical modules not installed on two GE optical ports, sealed cabinet: 0°C to 50°C (32°F to 122°F) ● Blower-equipped cabinet (≥ 400 LFM): 0°C to +60°C (32°F to 140°F) When the stack ports are configured to work in mode 1 (10GE service port) and industrial-grade optical modules are installed: ● Sealed cabinet: –40°C to +55°C (–40°F to +131°F) ● Blower-equipped cabinet (≥ 400 LFM): –40°C to +65°C (–40°F to +149°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 110 V DC to 250 V DC
Input voltage range [V]	• AC input: 90 V AC to 264 V AC; 47 Hz to 63 Hz • High-voltage DC input: 88 V DC to 300 V DC
Maximum input current [A]	0.55 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	±6 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.15.10 S5735I-S24T4XE-V2

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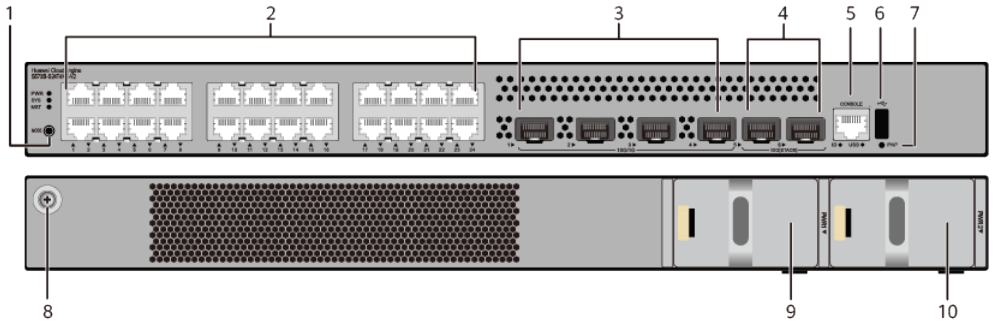
Overview

Table 4-763 Basic information about the S5735I-S24T4XE-V2

Item	Details
Description	S5735I-S24T4XE-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012019
Model	S5735I-S24T4XE-V2
First supported version	V600R022C01

Components

Figure 4-279 S5735I-S24T4XE-V2 appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.

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9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**

Ports

Table 4-764 Ports on the S5735I-S24T4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)**
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	**0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735I-S24T4XE-V2 has similar indicators to those on the S5735-S24P4XE-V2 except that the S5735I-S24T4XE-V2 does not have a PoE mode indicator. For details, see the S5735-S24P4XE-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has three built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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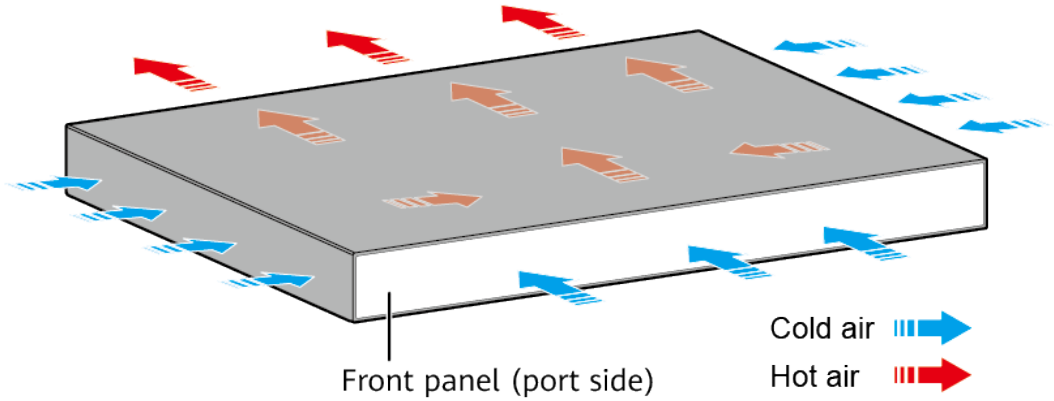

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-765 Technical specifications of the S5735I-S24T4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.44 kg (9.79 lb)
Weight with packaging [kg(lb)]	7.58 kg (16.71 lb)
Typical power consumption [W]	27.20 W
Typical heat dissipation [BTU/hour]	92.81 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 48.50 W (with two 80 W AC power modules) • 57.15 W (with two 180 W AC power modules) • 91.02 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 165.49 (with two 80 W AC power modules) • 195.00 (with two 180 W AC power modules) • 310.57 (with two 1200 W DC power modules)
Static power consumption [W]	24.19 W
MTBF [years]	146.35 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	51.5 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.5 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	3
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	–40°C to +65°C (-40°F to 149°F) at an altitude of 0–1800 m (0–5906 ft.), mapping industrial optical modules
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than -25°C (-13°F).
Storage temperature [°C(°F)]	–40°C to +75°C (–40°F to +167°F)

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Item	Specification
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.15.11 S5735I-S24T4XE-T-V2

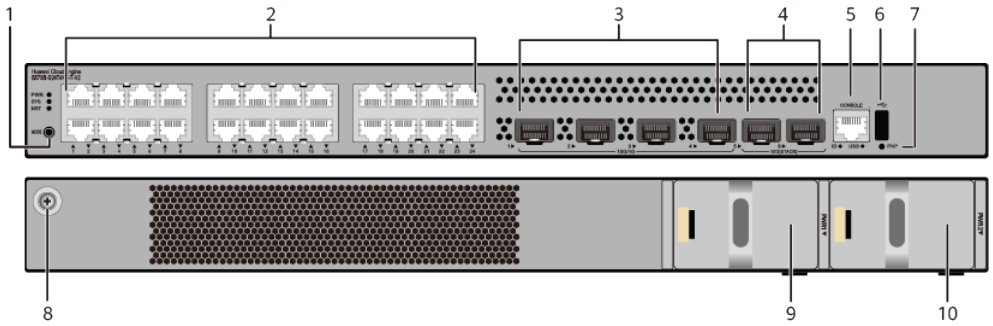
Overview

Table 4-766 Basic information about the S5735I-S24T4XE-T-V2

Item	Details
Description	S5735I-S24T4XE-T-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, HTM, without power module, Only for Overseas)
Part Number	98012020
Model	S5735I-S24T4XE-T-V2
First supported version	V600R022C01

Components

Figure 4-280 S5735I-S24T4XE-T-V2 appearance



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1	One MODE button	2	Twenty-four 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	Two stack ports
5	One console port	6	One USB port
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** (available since V600R023C00 version) • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** (available since V600R023C00 version) • **PDC1K2S12-CE**

Ports

Table 4-767 Ports on the S5735I-S24T4XE-T-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)**
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	**0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735I-S24T4XE-T-V2 has similar indicators to those on the S5735-S24P4XE-V2 except that the S5735I-S24T4XE-T-V2 does not have a PoE mode indicator. For details, see the S5735-S24P4XE-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has three built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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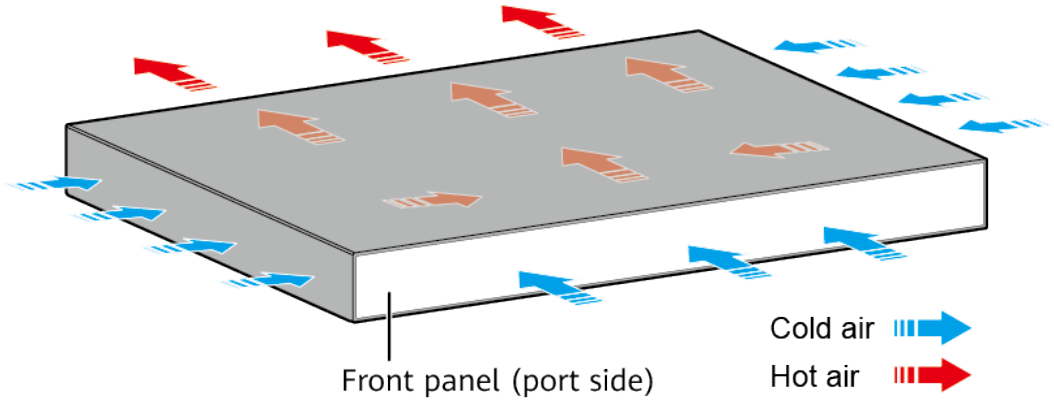

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-768 Technical specifications of the S5735I-S24T4XE-T-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.44 kg (9.79 lb)
Weight with packaging [kg(lb)]	7.58 kg (16.71 lb)
Typical power consumption [W]	27.40 W
Typical heat dissipation [BTU/hour]	93.49 BTU/hour

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Item	Specification
Maximum power consumption [W]	• 48.70 W (with two 80 W AC power modules) • 57.35 W (with two 180 W AC power modules) • 91.22 W (with two 1200 W DC power modules)
Maximum heat dissipation [BTU/hour]	• 166.17 (with two 80 W AC power modules) • 195.68 (with two 180 W AC power modules) • 311.25 (with two 1200 W DC power modules)
Static power consumption [W]	24.39 W
MTBF [years]	168.93 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	51.5 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.5 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	3
Redundant power supply	1+1 Power modules without fans and power modules with fans cannot be installed in the same chassis.
Long-term operating temperature [°C(°F)]	–40°C to +65°C (-40°F to 149°F) at an altitude of 0–1800 m (0–5906 ft.), mapping industrial optical modules
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than -25°C (-13°F).
Storage temperature [°C(°F)]	–40°C to +75°C (–40°F to +167°F)

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Item	Specification
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.15.12 S5735I-S24U4XE-V2

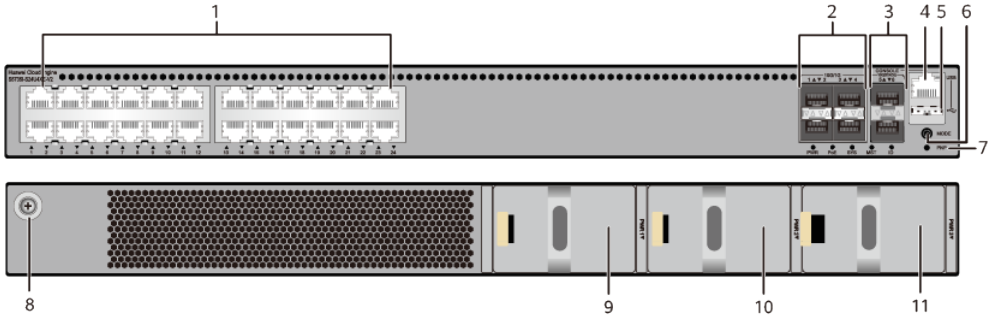
Overview

Table 4-769 Basic information about the S5735I-S24U4XE-V2

Item	Details
Description	S5735I-S24U4XE-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE++, without power module)
Part Number	98012062
Model	S5735I-S24U4XE-V2
First supported version	V600R022C01

Components

Figure 4-281 S5735I-S24U4XE-V2 appearance



1	Twenty-four 10/100/1000BASE-T PoE++ ports	2	Four 10GE SFP+ ports

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3	Two stack ports	4	One console port
5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-770 Ports on the S5735I-S24U4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)**
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	**0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735I-S24U4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-771 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	306 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (110 V)	–	–	270 W	• 802.3af (15.4 W per port): 17 • 802.3at (30 W per port): 9 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 3
1000 W DC	–	–	306 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
600 W AC (220 V)	–	–	171 W	• 802.3af (15.4 W per port): 11 • 802.3at (30 W per port): 5 • 802.3bt (60 W per port): 2 • 802.3bt (90 W per port): 1
600 W AC (110 V)	–	–	57 W	• 802.3af (15.4 W per port): 3 • 802.3at (30 W per port): 1 • 802.3bt (60 W per port): 0 • 802.3bt (90 W per port): 0

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	666 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	594 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 19 • 802.3bt (60 W per port): 9 • 802.3bt (90 W per port): 6
600 W AC (220 V)	600 W AC (220 V)	–	399 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	522 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
600 W AC (110 V)	600 W AC (110 V)	–	171 W	• 802.3af (15.4 W per port): 11 • 802.3at (30 W per port): 5 • 802.3bt (60 W per port): 2 • 802.3bt (90 W per port): 1

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1083 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 18 • 802.3bt (90 W per port): 12
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	627 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 20 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	882 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	738 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	918 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10

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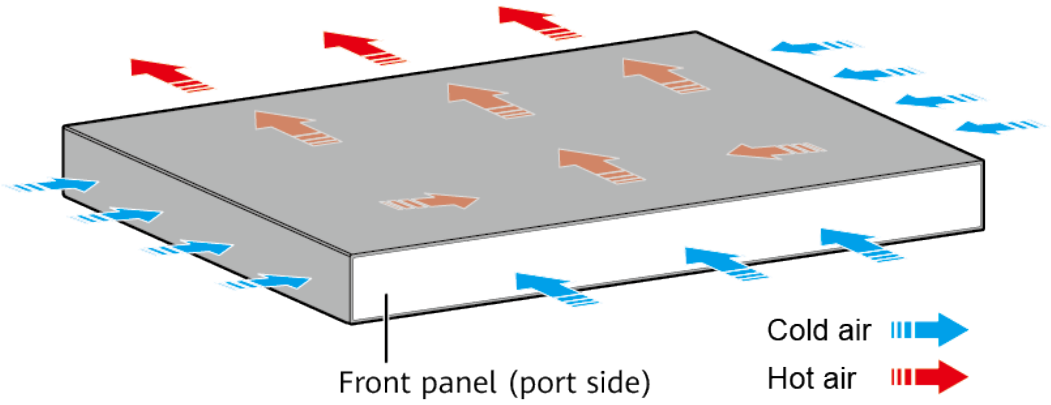
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	285 W	• 802.3af (15.4 W per port): 18 • 802.3at (30 W per port): 9 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 3

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has three built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-772 Technical specifications of the S5735I-S24U4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.02 kg (11.07 lb)
Weight with packaging [kg(lb)]	7.82 kg (17.24 lb)
Typical power consumption [W]	38.03 W
Typical heat dissipation [BTU/hour]	129.76 BTU/hour
Maximum power consumption [W]	- Without PoE: 93.35 W (with two 600 W AC power modules) 99.30 W (with two 1000 W AC power modules) 81.60 W (with two 1000 W DC power modules) - Full PoE load: 1234.78 W (PoE: 1083 W, with three power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 318.52 (with two 600 W AC power modules) 338.82 (with two 1000 W AC power modules) 278.43 (with two 1000 W DC power modules) - Full PoE load: 4213.19 (PoE: 3695.31, with three power modules)

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Item	Specification
Static power consumption [W]	26.58 W
MTBF [years]	92.58 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	3
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	–40°C to +65°C (-40°F to 149°F) at an altitude of 0–1800 m (0–5906 ft.), mapping industrial optical modules
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than -25°C (-13°F).
Storage temperature [°C(°F)]	–40°C to +75°C (–40°F to +167°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)

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Item	Specification
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.15.13 S5735I-S24U4XE-T-V2

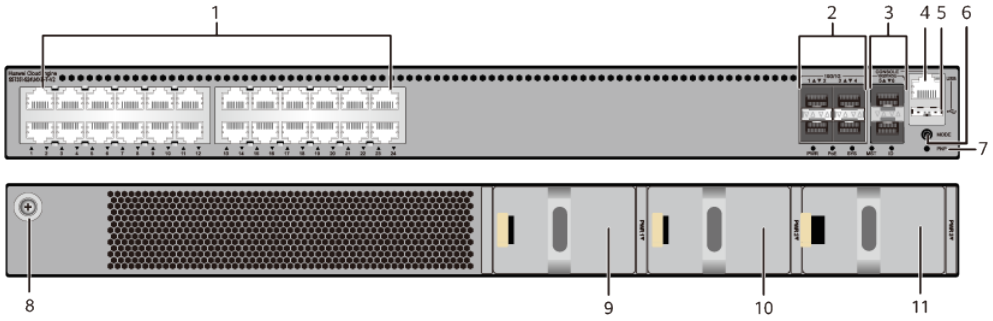
Overview

Table 4-773 Basic information about the S5735I-S24U4XE-T-V2

Item	Details
Description	S5735I-S24U4XE-T-V2 (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, PoE++, HTM, without power module, Only for Overseas)
Part Number	98012063
Model	S5735I-S24U4XE-T-V2
First supported version	V600R022C01

Components

Figure 4-282 S5735I-S24U4XE-T-V2 appearance



1	Twenty-four 10/100/1000BASE-T PoE++ ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port

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5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-774 Ports on the S5735I-S24U4XE-T-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)**
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	**0.5 m and 1.5 m SFP+ dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735I-S24U4XE-T-V2 has similar indicators to those on the S5735-S48U4XE-V2. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-775 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	306 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (110 V)	–	–	270 W	• 802.3af (15.4 W per port): 17 • 802.3at (30 W per port): 9 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 3
1000 W DC	–	–	306 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
600 W AC (220 V)	–	–	171 W	• 802.3af (15.4 W per port): 11 • 802.3at (30 W per port): 5 • 802.3bt (60 W per port): 2 • 802.3bt (90 W per port): 1
600 W AC (110 V)	–	–	57 W	• 802.3af (15.4 W per port): 3 • 802.3at (30 W per port): 1 • 802.3bt (60 W per port): 0 • 802.3bt (90 W per port): 0

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	666 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	594 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 19 • 802.3bt (60 W per port): 9 • 802.3bt (90 W per port): 6
600 W AC (220 V)	600 W AC (220 V)	–	399 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	522 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
600 W AC (110 V)	600 W AC (110 V)	–	171 W	• 802.3af (15.4 W per port): 11 • 802.3at (30 W per port): 5 • 802.3bt (60 W per port): 2 • 802.3bt (90 W per port): 1

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1083 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 18 • 802.3bt (90 W per port): 12
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	627 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 20 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	882 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	738 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	918 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10

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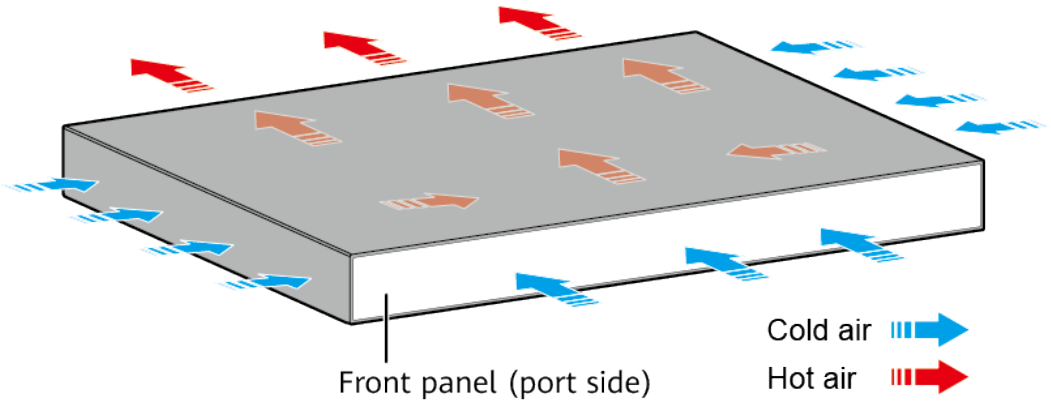
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	285 W	• 802.3af (15.4 W per port): 18 • 802.3at (30 W per port): 9 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 3

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has three built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-776 Technical specifications of the S5735I-S24U4XE-T-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.02 kg (11.07 lb)
Weight with packaging [kg(lb)]	7.82 kg (17.24 lb)
Typical power consumption [W]	38.23 W
Typical heat dissipation [BTU/hour]	130.44 BTU/hour
Maximum power consumption [W]	- Without PoE: 93.55 W (with two 600 W AC power modules) 99.50 W (with two 1000 W AC power modules) 81.80 W (with two 1000 W DC power modules) - Full PoE load: 1234.98 W (PoE: 1083 W, with three power modules)
Maximum heat dissipation [BTU/hour]	- Without PoE: 319.20 (with two 600 W AC power modules) 339.50 (with two 1000 W AC power modules) 279.11 (with two 1000 W DC power modules) - Full PoE load: 4213.19 (PoE: 3695.31, with three power modules)

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Item	Specification
Static power consumption [W]	26.58 W
MTBF [years]	90.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 50 dBA Three 1000 W AC PoE power modules with 30% load: 49.9 dBA Three 1000 W DC PoE power modules with 30% load: 48.5 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Three 600 W AC PoE power modules with 30% load: 38 dBA Three 1000 W AC PoE power modules with 30% load: 37.9 dBA Three 1000 W DC PoE power modules with 30% load: 36.5 dBA
Number of card slots	0
Number of power slots	3
Number of fans modules	3
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together on the same device.
Long-term operating temperature [°C(°F)]	–40°C to +65°C (-40°F to 149°F) at an altitude of 0–1800 m (0–5906 ft.), mapping industrial optical modules
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than -25°C (-13°F).
Storage temperature [°C(°F)]	–40°C to +75°C (–40°F to +167°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)

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Item	Specification
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.15.14 S5735I-S48T4XE-V2

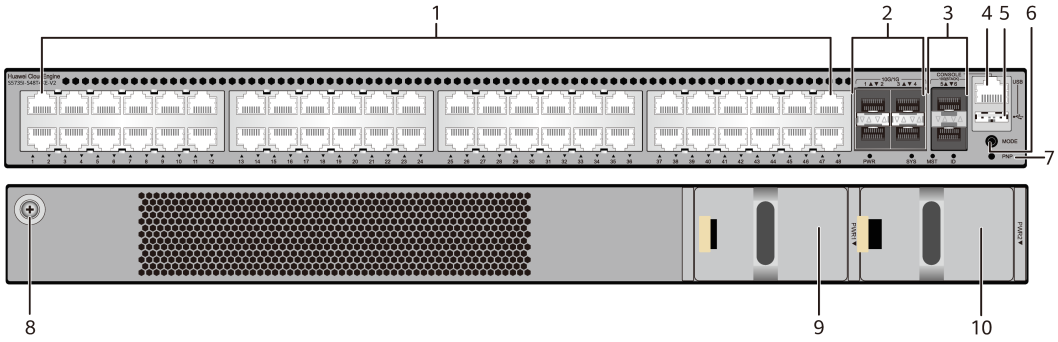
Overview

Table 4-777 Basic information about the S5735I-S48T4XE-V2

Item	Details
Description	S5735I-S48T4XE-V2 (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*12GE stack ports, without power module)
Part Number	98012786
Model	S5735I-S48T4XE-V2
First supported version	V600R024C10

Components

Figure 4-283 S5735I-S48T4XE-V2 appearance



1	Forty-eight 10/100/1000BASE-T ports	2	Four 10GE SFP+ ports
3	Two stack ports	4	One console port

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5	One USB port	6	One MODE button
7	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PDC240S12-CN**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PDC240S12-CN**

Ports

Table 4-778 Ports on the S5735I-S48T4XE-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules (only optical modules with 1 Gbit/s and 10 Gbit/s)** • **1 m and 3 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)**
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default.	• **1 m SFP+ high-speed copper cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5735I-S48T4XE-V2 has similar indicators to those on the S5735-S48U4XE-V2 except that the S5735-S48T4XE-V2 does not have a PoE mode indicator. For details, see the S5735-S48U4XE-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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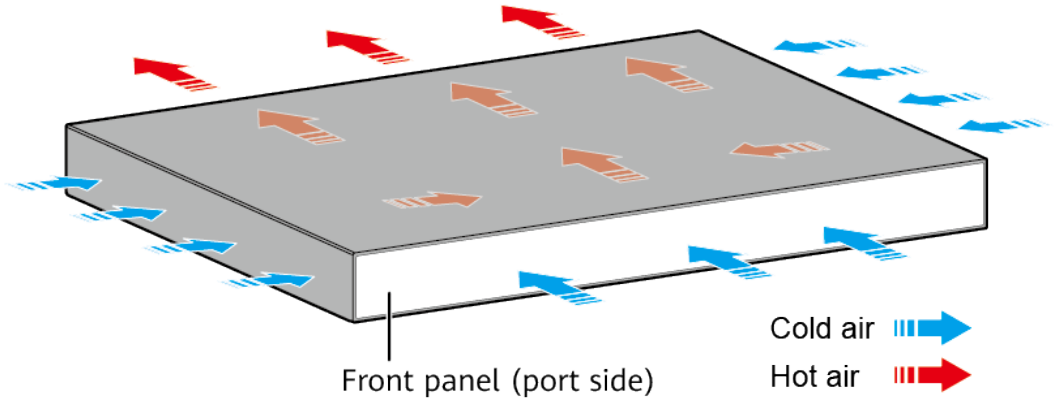

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-779 Technical specifications of the S5735I-S48T4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.53 kg (9.99 lb)
Weight with packaging [kg(lb)]	7.66 kg (16.89 lb)
Typical power consumption [W]	39.83 (30% traffic load)
Typical heat dissipation [BTU/hour]	135.9 BTU/hour
Maximum power consumption [W]	55.75 W (with two 80 W AC power modules) 55.75 W (with two 240 W DC power modules)

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Item	Specification
Maximum heat dissipation [BTU/hour]	190.2 (with two 80 W AC power modules) 190.2 (with two 240 W DC power modules)
Static power consumption [W]	21.66 W
MTBF [years]	124.62 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.9 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	29.9 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1
Long-term operating temperature [°C(°F)]	–40°C to +65°C (-40°F to 149°F) at an altitude of 0–1800 m (0–5906 ft.), mapping industrial optical modules
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than –25°C (–13°F).
Storage temperature [°C(°F)]	–40°C to +75°C (–40°F to +167°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC, 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: –38.4 V DC to –72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.16 S5735I-H-V2

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4.16.1 S5735I-H8T2XN-V2

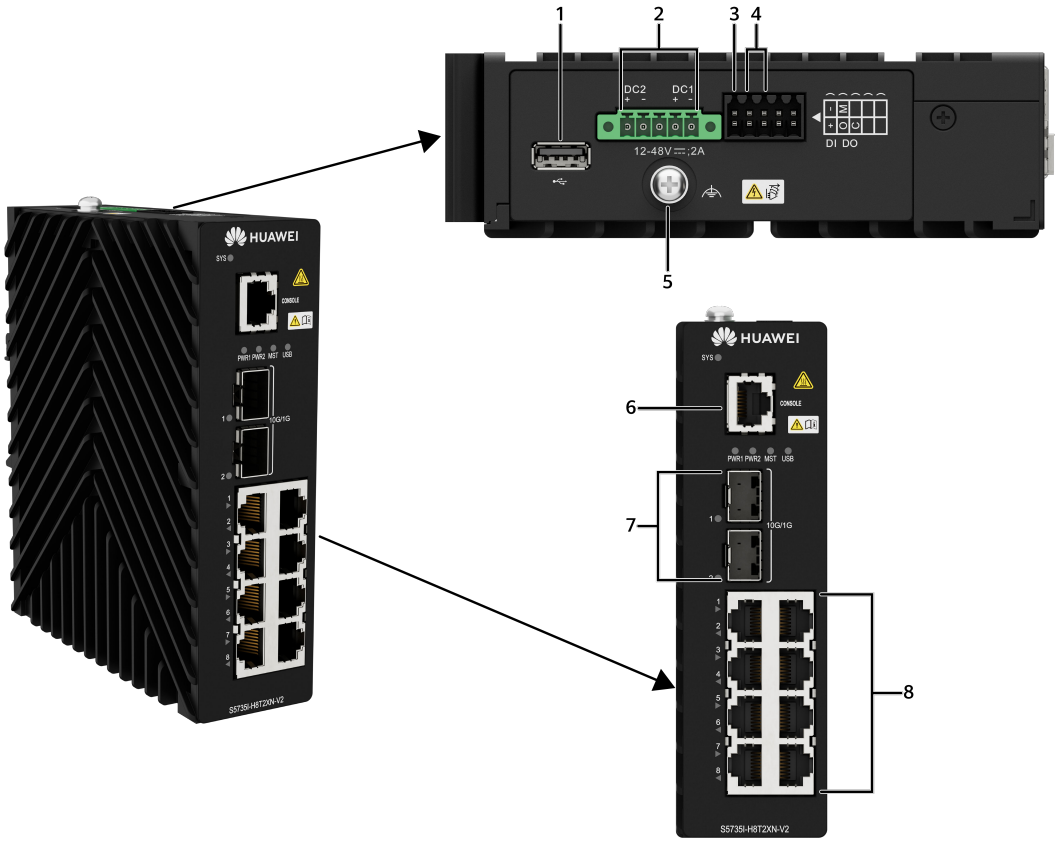
Overview

Table 4-780 Basic information about the S5735I-H8T2XN-V2

Item	Details
Description	S5735I-H8T2XN-V2 (8*10/100/1000BASE-T ports, 2*10GE SFP+ ports, DIN Rail Mounting, Dual redundant 9.6 to 60V DC supply, Fanless, 1588, Without power module)
Part Number	98012687
Model	S5735I-H8T2XN-V2
First supported version	V600R024C10

Components

Figure 4-284 S5735I-H8T2XN-V2 appearance



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1	One USB port	2	Dual DC power input port **NOTE** It must be used with **9.11 5-Pin DC Power Terminal**, which are included in the auxiliary material package delivered with the device. It supports dual DC power supplies, , that is, DC1 and DC2. One console port
3	One DI port	4	One DO port
5	Ground screw **NOTE** It is used with a **ground cable**.	6	One console port
7	Two 10GE SFP+ ports	8	Eight 10/100/1000BASE-T ports

Ports

Figure 4-285 Typical connections of the DI port

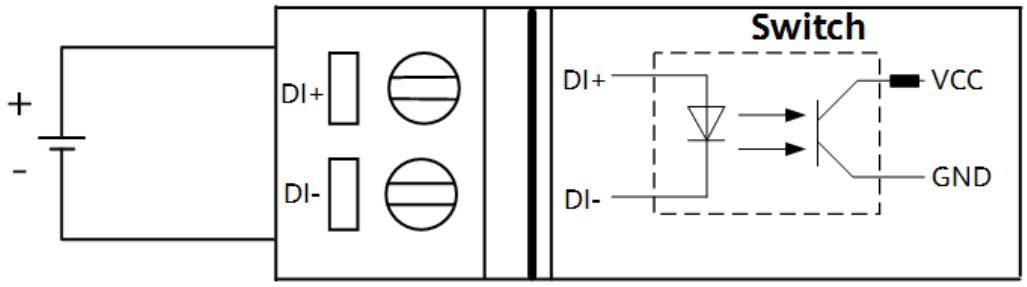

Figure 4-286 Typical connections of the DO port

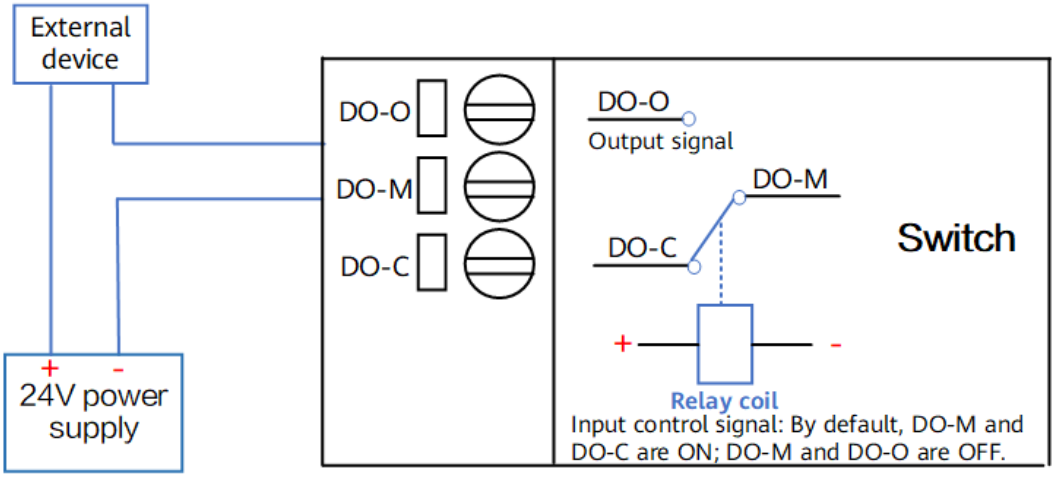

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Table 4-781 Ports on the S5735I-H8T2XN-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **GE SFP copper module** • **PEN remote optical modules (V600R024C10 and later versions)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive
DI port	2x5-Pin Phoenix Connector	The DI port is used to check active level signals. Signal type: 9.6 V to 30 V for state 1; –30 V to +3 V for state 0	**2x5-Pin Phoenix Connector**
DO port	2x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	**2x5-Pin Phoenix Connector**

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Indicators and Buttons

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Figure 4-287 Indicators on the Switch

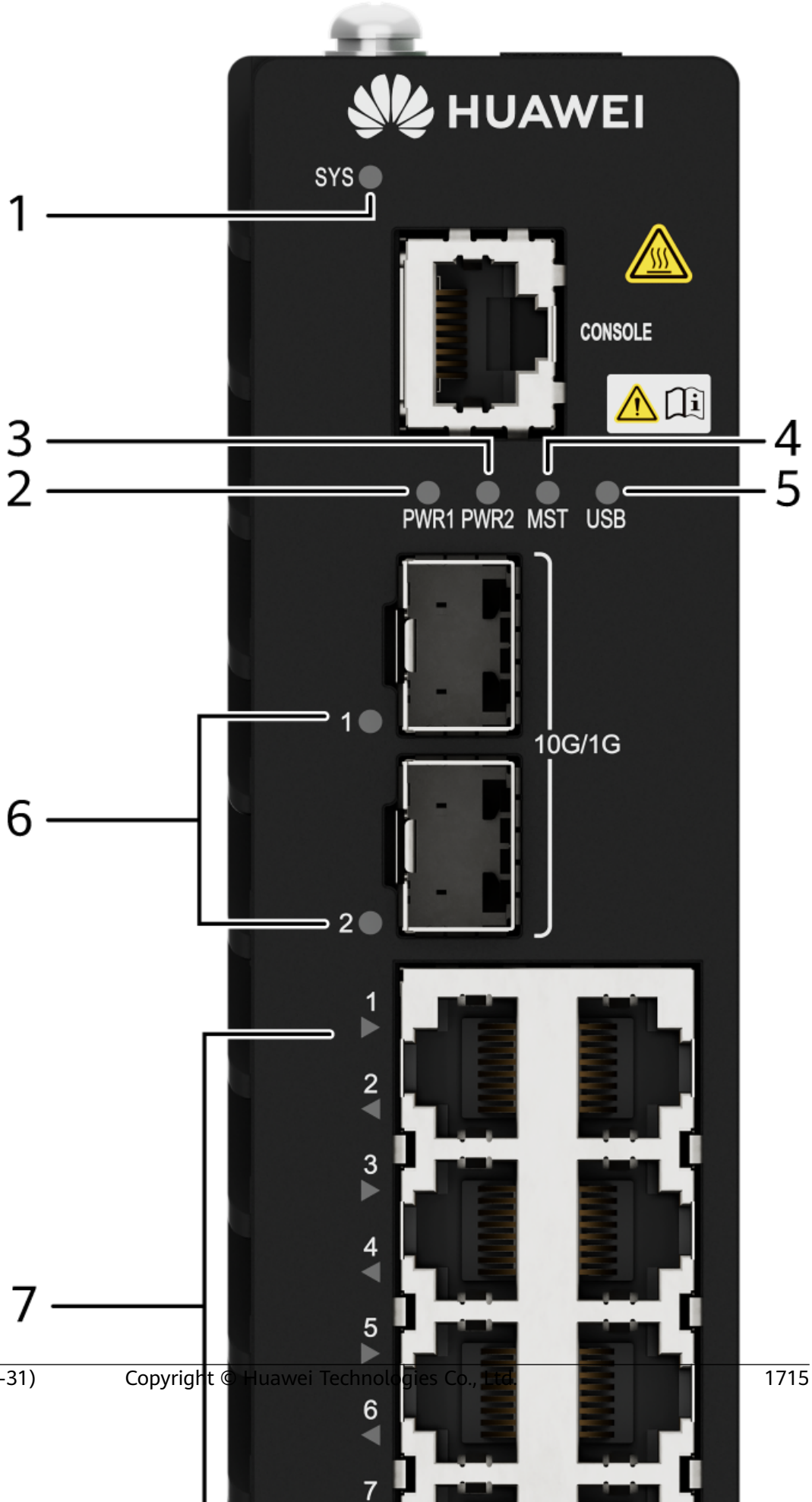

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Table 4-782 Indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
			Red	Steady on	The system does not work normally after registration, or a temperature alarm has been generated.
2	PWR 1	Indicator of power module 1	-	Off	The power supply 1 is not supplying power or the power supply 1 is abnormal.
			Green	Steady on	The power supply 1 is normal.
3	PWR 2	Indicator of power module 2	-	Off	The power supply 2 is not supplying power or the power supply 2 is abnormal.
			Green	Steady on	The power supply 2 is normal.
4	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.

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No.	Indicator	Name	Color	Status	Description
5	USB	USB-based deployment indicator	-	Off	• No USB flash drive is connected, or the indicator fails. • The USB port is damaged. • The USB flash drive does not have any configuration file and cannot be used for deployment. • The device has been upgraded using the USB flash drive and is restarting. • An error has occurred when the system is executing the configuration file or reading data from the USB flash drive.
			Green	Steady on	USB-based deployment succeeds.
			Green	Fast blinking	The system is reading data from a USB flash drive.
			Green	Slow blinking	The device has copied all the required files and completed the file check. The USB flash drive can be removed from the device.
6	1 to 2	Optical port indicator (one indicator for each port)	-		Meanings of service port indicators vary in different modes. For details, see **Table 4-783**.
7	1 to 8	Electrical port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		

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Table 4-783 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The switch can be directly connected to an external 12 V to 48 V DC power supply or powered by the PAC60S12-AN.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-784 Technical specifications of the S5735I-H8T2XN-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 44.0 mm x 133.0 mm (5.91 in. x 1.73 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 44.0 mm x 142.0 mm (6.38 in. x 1.73 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	113.0 mm x 233.0 mm x 188.0 mm (4.45 in. x 9.17 in. x 7.40 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1 kg (2.2 lb)
Weight without packaging (full configuration) [kg(lb)]	1 kg (2.2 lb)
Weight with packaging [kg(lb)]	1.3 kg(lb)

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Item	Specification
Typical power consumption [W]	16.4 (54 V power module, 30% traffic, excluding the power consumption of optical modules)
Typical heat dissipation [BTU/hour]	55.95 BTU/hour
Maximum power consumption [W]	23 W
Maximum heat dissipation [BTU/hour]	78.5 BTU/hour
Static power consumption [W]	12.8 W
MTBF [years]	70.46 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +60°C (–40°F to +140°F) ● Vented cabinet (≥ 40 LFM): –40°C to +70°C (–40°F to +158°F) ● Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F) When the device is installed in a sealed cabinet and uses low-voltage input, the following restrictions apply: 1. The input voltage is in the range from 9.6 V to 12 V, and the ambient temperature is within 55°C (131°F). 2. The input voltage is in the range from 12 V to 60 V, and the ambient temperature is within 60°C (140°F). Configured with PEN optical modules: ● Sealed cabinet: 0°C to +45°C (32°F to 113°F) ● Vented cabinet (≥ 40 LFM): 0°C to +55°C (32°F to 131°F) ● Blower-equipped cabinet (≥ 200 LFM): 0°C to +60°C (32°F to 140°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 12 V DC to 48 V DC
Input voltage range [V]	DC input: 9.6 V DC to 60 V DC
Maximum input current [A]	2 A
Memory	2 GB

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Item	Specification
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	DC power module: ±4 kV in common mode and ±2 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.16.2 S5735I-H8U2XN-V2

Overview

Table 4-785 Basic information about the S5735I-H8U2XN-V2

Item	Details
Description	S5735I-H8U2XN-V2 (8*10/100/1000BASE-T ports, PoE++, 2*10GE SFP+ ports, DIN Rail Mounting, Dual redundant 54 to 57V DC supply, Fanless, 1588, Without power module)
Part Number	98012685
Model	S5735I-H8U2XN-V2
First supported version	V600R024C10

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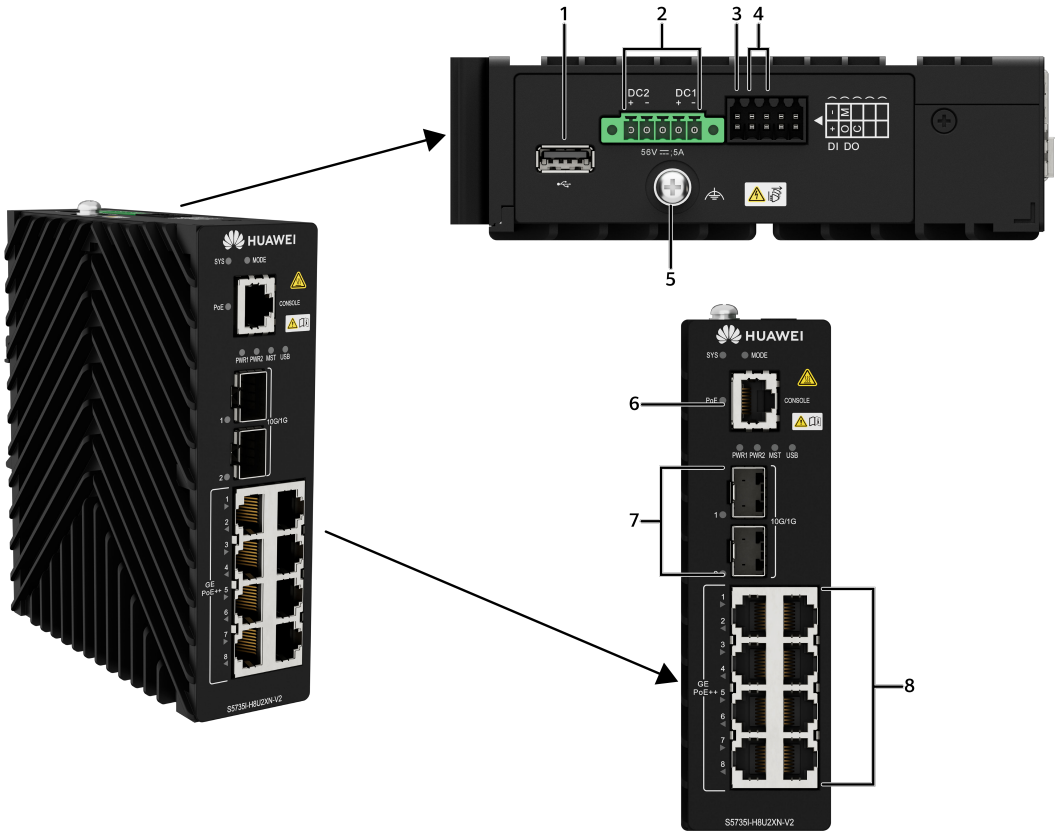
Components

Figure 4-288 S5735I-H8U2XN-V2 appearance



1	One USB port	2	Dual DC power input port **NOTE** It must be used with **9.11 5-Pin DC Power Terminal**, which are included in the auxiliary material package delivered with the device. It supports dual DC power supplies, , that is, DC1 and DC2. One console port
3	One DI port	4	One DO port
5	Ground screw **NOTE** It is used with a **ground cable**.	6	One console port
7	Two 10GE SFP+ ports	8	Eight 10/100/1000BASE-T PoE++ ports

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Ports

Figure 4-289 Typical connections of the DI port

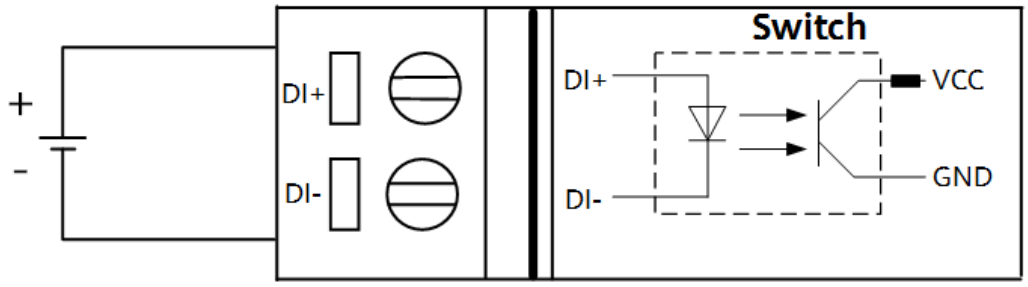

Figure 4-290 Typical connections of the DO port

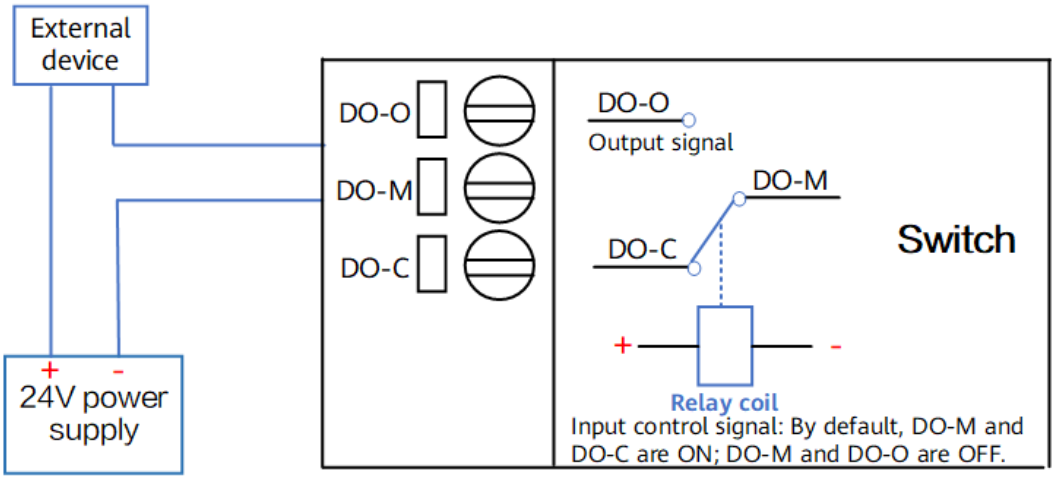

Table 4-786 Ports on the S5735I-H8U2XN-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	Ethernet cable

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **GE SFP copper module** • **PEN remote optical modules (V600R024C10 and later versions)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Port	Connector Type	Description	Available Components
DI port	2x5-Pin Phoenix Connector	The DI port is used to check active level signals. Signal type: 9.6 V to 30 V for state 1; –30 V to +3 V for state 0	**2x5-Pin Phoenix Connector**
DO port	2x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	**2x5-Pin Phoenix Connector**

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Indicators and Buttons

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Figure 4-291 Indicators on the Switch

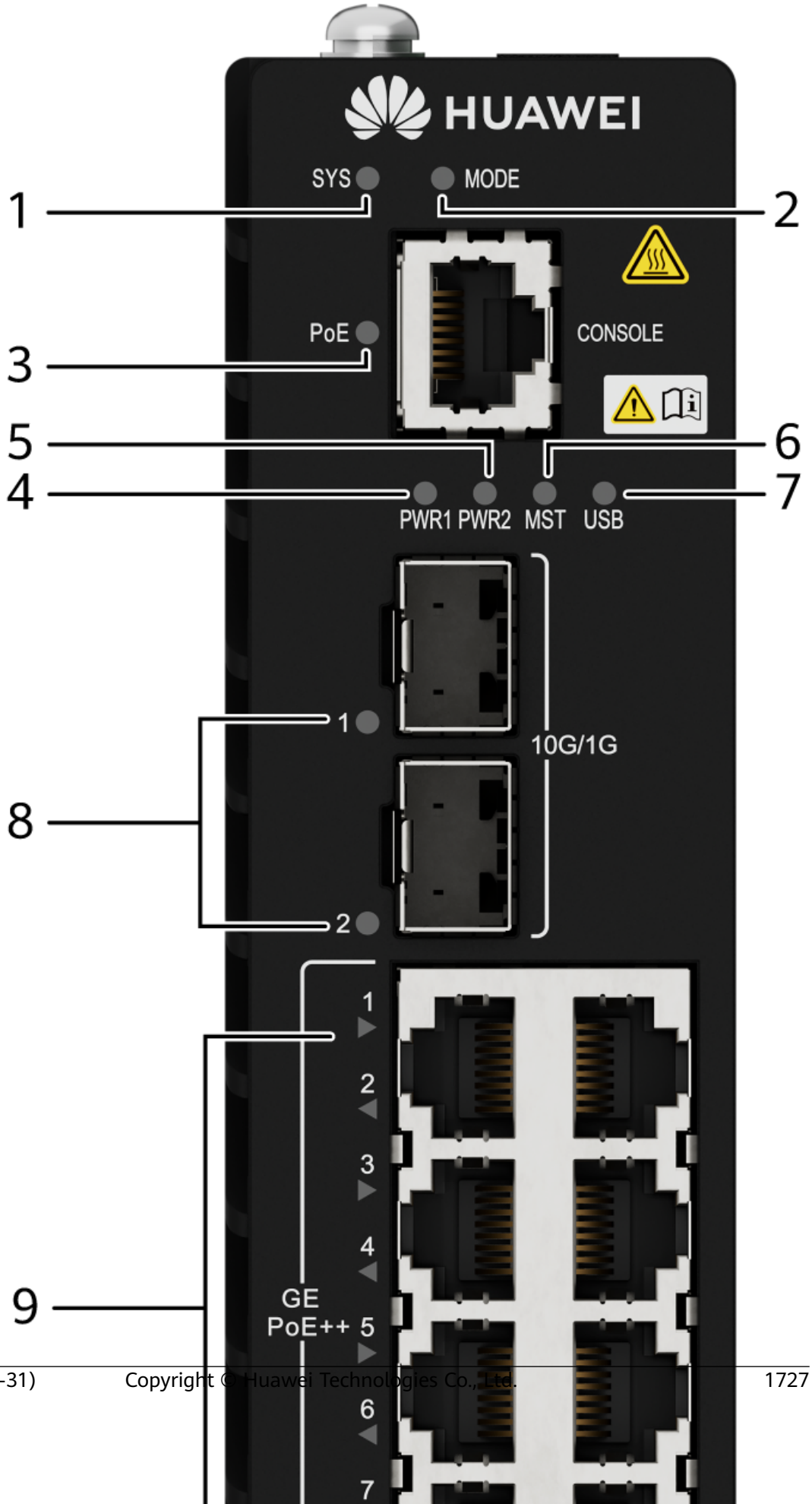

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Table 4-787 Indicators on the device

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
			Red	Steady on	The system does not work normally after registration, or a temperature alarm has been generated.

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No.	Indicator	Name	Color	Status	Description
2	MODE	Mode switching button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local device. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a fourth time, the service port indicators restore the default mode and show the connection status of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the MODE button for 6 seconds and release it to start the web initial login mode. Either of the following situations will occur: • If the device uses factory settings, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST indicator turns green and stays on for a maximum of 45 seconds. • Otherwise, check whether the device uses its factory default settings.
3	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
4	PWR 1	Indicator of power module 1	-	Off	The power supply 1 is not supplying power or the power supply 1 is abnormal.
			Green	Steady on	The power supply 1 is normal.
5	PWR 2	Indicator of power module 2	-	Off	The power supply 2 is not supplying power or the power supply 2 is abnormal.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	The power supply 2 is normal.
6	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The device is a standby or slave device in a stack or the stacking function is not enabled on the device. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The device is a standby or slave device in a stack, and the service port indicators show the stack ID of the device.
			Green	Blinking	• If you are not changing the indicator mode (default): The device is the master device in a stack or a standalone device with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The device is the master device in a stack or a standalone device, and the service port indicators show the stack ID of the master device. After 45 seconds, the service port indicators automatically restore the default mode.
7	USB	USB-based deployment indicator	-	Off	• No USB flash drive is connected, or the indicator fails. • The USB port is damaged. • The USB flash drive does not have any configuration file and cannot be used for deployment. • The device has been upgraded using the USB flash drive and is restarting. • An error has occurred when the system is executing the configuration file or reading data from the USB flash drive.
			Green	Steady on	USB-based deployment succeeds.

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No.	Indicator	Name	Color	Status	Description
			Green	Fast blinking	The system is reading data from a USB flash drive.
			Green	Slow blinking	The device has copied all the required files and completed the file check. The USB flash drive can be removed from the device.
6	1 to 2	Optical port indicator (one indicator for each port)	-		Meanings of service port indicators vary in different modes. For details, see **Table 4-788**.
7	1 to 8	Electrical port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		

Table 4-788 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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Display Mode	Color	Status	Description
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The switch can be directly connected to an external 56 V DC power supply or powered by the PAC240S56-CN.

Table 4-789 Power supply configurations

Power Supply 1	Power Supply 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
PAC240S56-CN	-	210 W The ambient temperature is lower than 55°C (131°F).	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 7 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
-	PAC240S56-CN		
PAC240S56-CN	PAC240S56-CN	240 W The ambient temperature is lower than 55°C (131°F).	• 802.3af (15.4 W per port): 15 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2
PAC240S56-CN	-	120 W The ambient temperature is lower than 60°C (140°F).	• 802.3af (15.4 W per port): 7 • 802.3at (30 W per port): 4 • 802.3bt (60 W per port): 2 • 802.3bt (90 W per port): 1
-	PAC240S56-CN		
PAC240S56-CN	PAC240S56-CN		

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NOTE

The PoE power supply of S5735I-H8U2XN-V2 is in direct mode. The input voltage must meet the PoE standard. If the input voltage does not meet the PoE standard, the voltage on the PD side may be too low.

The maximum available PoE power supported by the device is subject to the following restrictions:

- Maximum available PoE power of 240 W: The ambient temperature is lower than 55°C (131°F).
- Maximum available PoE power of 120 W: The ambient temperature is lower than 60°C (140°F).

Use the 240 W power module (PAC240S56-CN) recommended by Huawei to provide a maximum of 210 W PoE capability by default. You can run the **poe max-power** command to set the maximum PoE power.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-790 Technical specifications of the S5735I-H8U2XN-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 44.0 mm x 133.0 mm (5.91 in. x 1.73 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 44.0 mm x 142.0 mm (6.38 in. x 1.73 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	113.0 mm x 233.0 mm x 188.0 mm (4.45 in. x 9.17 in. x 7.40 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	1 kg (2.2 lb)
Weight without packaging (full configuration) [kg(lb)]	1 kg (2.2 lb)
Weight with packaging [kg(lb)]	1.3 kg(lb)
Typical power consumption [W]	16.4 (48 V power module, 30% traffic, excluding the power consumption of optical modules)
Typical heat dissipation [BTU/hour]	56 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 23.3 W • Full PoE load: 270 W (PoE: 240 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 79.5 • Full PoE load: 921.3 (PoE: 818.9)
Static power consumption [W]	14.2 W
MTBF [years]	67.24 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1 **NOTE** If the PAC240S56-CN is used, one PAC240S56-CN can supply power to only one S5735I-H8U2XN-V2 at a time.

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +60°C (–40°F to +140°F) ● Vented cabinet (≥ 40 LFM): –40°C to +70°C (–40°F to +158°F) ● Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +45°C (32°F to 113°F) ● Vented cabinet (≥ 40 LFM): 0°C to +55°C (32°F to 131°F) ● Blower-equipped cabinet (≥ 200 LFM): 0°C to +60°C (32°F to 140°F) **NOTE** 1. The maximum available PoE power supported by the device installed in a sealed cabinet is 240 W if the ambient temperature is lower than 55°C (131°F). 2. The maximum available PoE power supported by the device installed in a sealed cabinet is 120 W if the ambient temperature is lower than 60°C (140°F).
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 56 V DC
Input voltage range [V]	DC input: 54 V DC to 57 V DC (PoE/PoE+/PoE++) 48 V DC (PoE)
Maximum input current [A]	6 A

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Item	Specification
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±6 kV
Power supply surge protection [kV]	DC power module: ±4 kV in common mode and ±2 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.16.3 S5735I-H8T4S2XN-V2

Overview

Table 4-791 Basic information about the S5735I-H8T4S2XN-V2

Item	Details
Description	S5735I-H8T4S2XN-V2 (8*10/100/1000BASE-T ports, 4*GE SFP ports,2*10GE SFP+ ports, DIN Rail Mounting, Dual redundant 9.6 to 60V DC power, Fanless)
Part Number	98012185
Model	S5735I-H8T4S2XN-V2

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Item	Details
First supported version	V600R023C00

Components

Figure 4-292 S5735I-H8T4S2XN-V2 appearance

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1	Two DC input power sockets **NOTE** Applicable external power module: **6.2 PAC240S56-CN (240 W PoE AC&HVDC Power)**	2	One console port
3	One USB port	4	DI port
5	DO port	6	RS485 port
7	Ground screw **NOTE** It is used with a **ground cable**.	8	Eight 10/100/1000BASE-T ports
9	Two 10GE SFP+ ports and four 1000BASE-X ports	-	-

Ports

Figure 4-293 Typical connections of the DI port

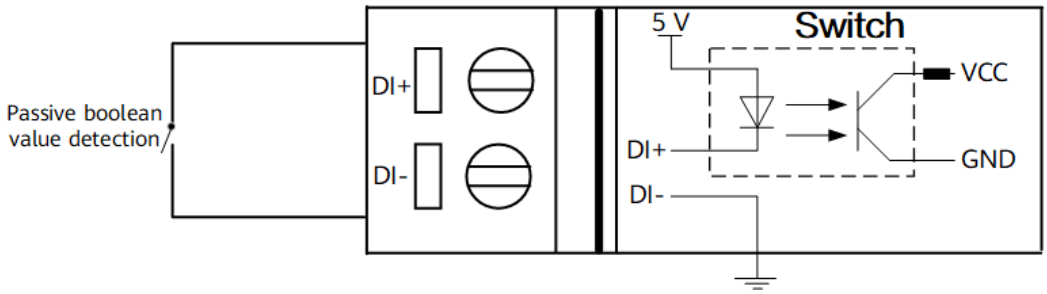

Figure 4-294 Typical connections of the DO port

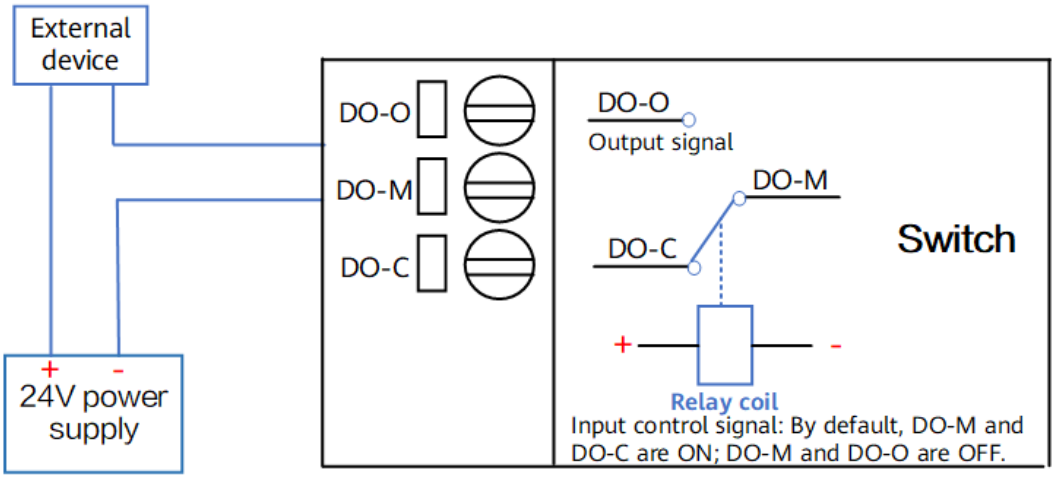

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Table 4-792 Ports on the S5735I-H8T4S2XN-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **PEN remote optical modules (V600R024C10 and later versions)**
GE SFP optical port	SFP	A GE SFP Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s. **NOTE** In V600R023C00, if passing devices are configured to work in HSR mode and there is no north-south traffic, the service indicator is steady on.	**Industrial optical modules (only optical modules with 1 Gbit/s transmission speed and transmission distances less than or equal to 10 km are supported)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Port	Connector Type	Description	Available Components
RS-485 port	2x5-Pin Phoenix Connector	The RS-485 port is used for data collection. • Standards compliance: RS-485 • Working mode: Half-duplex • Supported rates: 1200 bit/s, 2400 bit/s, 4800 bit/s, 9600 bit/s, 19200 bit/s, 38400 bit/s, 57600 bit/s, and 115200 bit/s • Maximum number of nodes that can be mounted: 64 • Maximum communication distance: 1 km @ 9600 bit/s The default configurations of the RS-485 port are as follows: • Baud rate: 9600 bit/s • Flow control: None • Parity check: None • Stop bits: 1 • Data bits: 8	**2x5-Pin Phoenix Connector**

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Port	Connector Type	Description	Available Components
		NOTE During project implementation, if error packets occur on the line, it is recommended that 120 ohms be added between the head end and end of the line.	
DI port	2x5-Pin Phoenix Connector	The DI port is used to check remote communication input and level signals. Signal type: Passive DI signals, Boolean value (short circuit and open circuit)	**2x5-Pin Phoenix Connector**
DO port	2x5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	**2x5-Pin Phoenix Connector**

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Indicators and Buttons

Figure 4-295 Indicators on the Switch

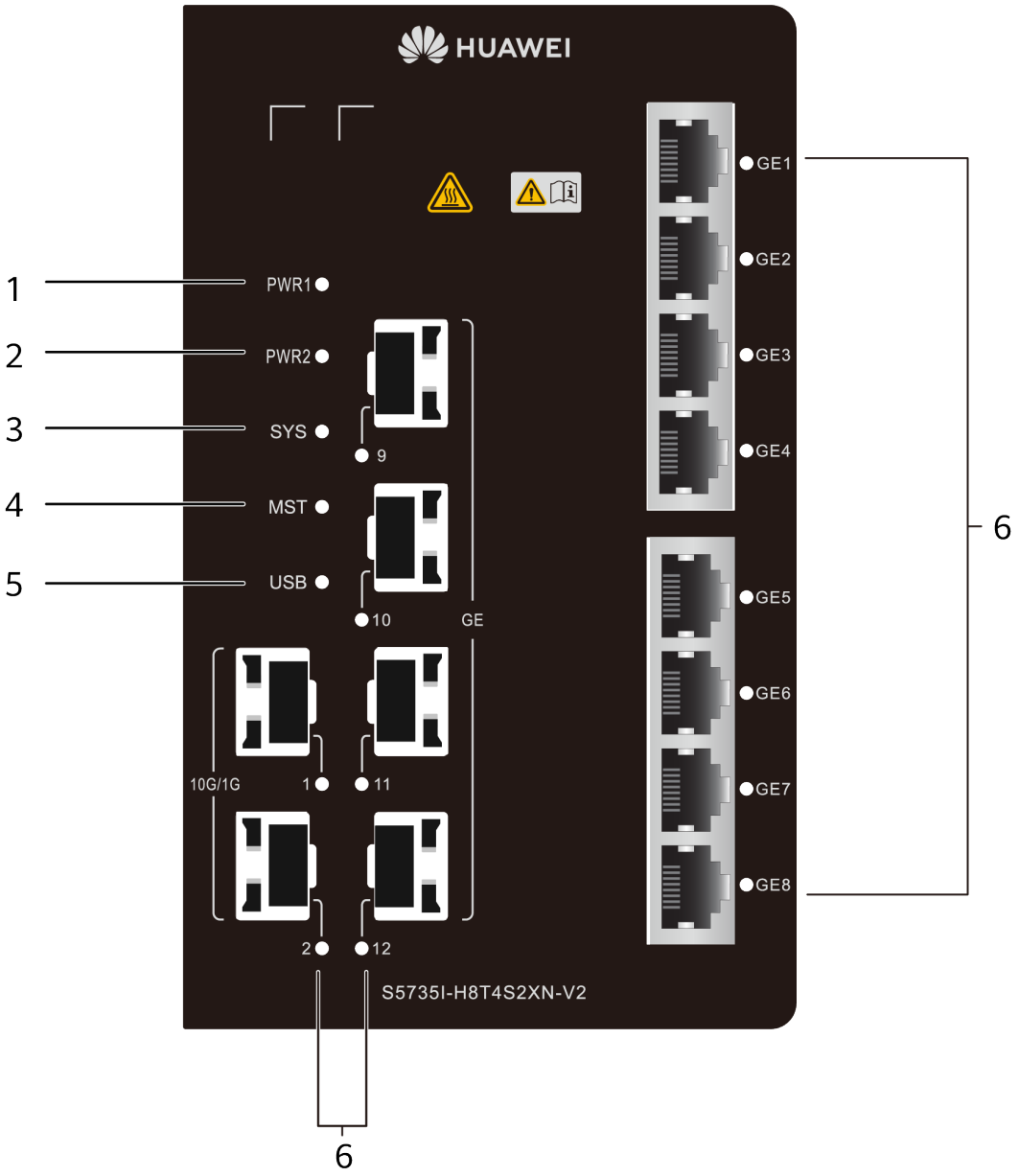

Table 4-793 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Power module 1 indicator	-	Off	The power supply 1 is not supplying power or the power supply 1 is abnormal.
			Green	Steady on	The power supply 1 is normal.

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No.	Indicator	Name	Color	Status	Description
2	PWR 2	Power module 2 indicator	-	Off	The power supply 2 is not supplying power or the power supply 1 is abnormal.
			Green	Steady on	The power supply 2 is normal.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	The switch is not the master switch in a stack. **NOTE** The current version does not support this function.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch. **NOTE** The current version does not support this function.
5	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

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No.	Indicator	Name	Color	Status	Description
6	GE1-GE8 1-2 9-12	Service port indicator	-	Off	The port is not connected or has been shut down.
			Green	Steady on	A link has been established on the port.
				Blinking	The port is sending or receiving data.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The switch can be directly connected to an external 12 V to 48 V DC power supply or powered by the PAC60S12-AN.

Heat Dissipation System

The switch has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-794 Technical specifications of the S5735I-H8T4S2XN-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 150.0 mm x 120.0 mm x 133.0 mm (5.91 in. x 4.72 in. x 5.24 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 162.0 mm x 120.0 mm x 142.0 mm (6.38 in. x 4.72 in. x 5.59 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 280.0 mm x 230.0 mm (6.89 in. x 11.02 in. x 9.06 in.)
Chassis height [U]	3.65 U
Chassis material	Metal
Weight without packaging [kg(lb)]	2.08 kg (4.59 lb)
Weight with packaging [kg(lb)]	2.54 kg (5.6 lb)

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Item	Specification
Typical power consumption [W]	25.3 W (12 V power supply, 25°C, no wind, 100% traffic) 27.9 W (48 V power supply, 25°C, no wind, 100% traffic)
Typical heat dissipation [BTU/hour]	86 (12 V power supply, 25°C, no wind, 100% traffic) 95 (48 V power supply, 25°C, no wind, 100% traffic)
Maximum power consumption [W]	33.80 W (60 V power supply, 60°C, no wind, 100% traffic)
Maximum heat dissipation [BTU/hour]	115 BTU/hour
Static power consumption [W]	16.2 W (12 V @ 25°C) 19.2 W (48 V @ 25°C)
MTBF [years]	78.4 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +60°C (–40°F to +140°F) ● Vented cabinet (≥ 40 LFM): –40°C to +70°C (–40°F to +158°F) ● Blower-equipped cabinet (≥ 200 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +45°C (32°F to 113°F) ● Vented cabinet (≥ 40 LFM): 0°C to +55°C (32°F to 131°F) ● Blower-equipped cabinet (≥ 200 LFM): 0°C to +60°C (32°F to 140°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800-5000 m (5906-16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	DC external
Rated input voltage [V]	DC input: 12 V DC to 48 V DC
Input voltage range [V]	DC input: 9.6 V DC to 60 V DC
Maximum input current [A]	5 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±4 kV
Power supply surge protection [kV]	DC power module: ±4 kV in common mode and ±2 kV in differential mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.16.4 S5735I-H24U8S4XE-QA-V2

Overview

Table 4-795 Basic information about the S5735I-H24U8S4XE-QA-V2

Item	Details
Description	S5735I-H24U8S4XE-QA-V2(8*10/100/1000BASE-T ports(PoE++),16*10/100/1000BASE-T ports(PoE+),8*GE SFP ports,4*10GE SFP+ ports,2*12GE stack ports,Dual AC power,Fanless)
Part Number	98012386
Model	S5735I-H24U8S4XE-QA-V2
First supported version	V600R023C10
Remarks	This model must be used in dual-input power supply scenarios. If this model is used in non-dual-input scenarios, device reliability may not be ensured.

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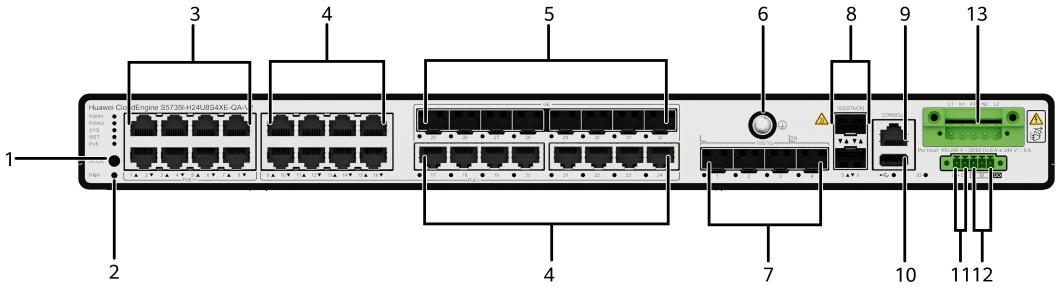
Components

Figure 4-296 S5735I-H24U8S4XE-QA-V2 appearance



1	One MODE button	2	One PNP button **NOTICE** If you hold down the button for at least 6 seconds, the device restores factory settings and then is reset. If you press the button, the device is reset. Resetting the device will cause service interruption. Exercise caution when you press the button.
3	8 x 10/100/1000BASE-T PoE++ ports	4	16 x 10/100/1000BASE-T PoE+ ports
5	Eight 1000BASE-X ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	Four 10GE SFP+ optical ports	8	Two stack ports **NOTE** The two stack ports can be configured as two 10GE optical ports (mode 1) by running the **port combination-mode** command.
9	One console port	10	One USB port
11	One DI port **NOTE** It must be used with **9.12 5-Pin Phoenix Connector (DI/DO)**, which are included in the auxiliary material package delivered with the device.	12	One DO port **NOTE** It must be used with **9.12 5-Pin Phoenix Connector (DI/DO)**, which are included in the auxiliary material package delivered with the device.

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13	Dual AC power input port **NOTE** It must be used with **9.10 5-Pin AC Power Terminal**, which are included in the auxiliary material package delivered with the device. It supports dual AC power supplies, that is, L1&N1 and L2&N2.	-	-

Ports

Figure 4-297 Typical connections of the DI port

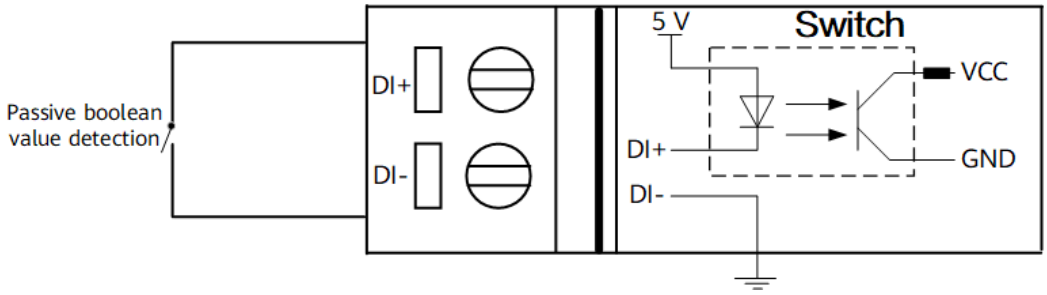

Figure 4-298 Typical connections of the DO port

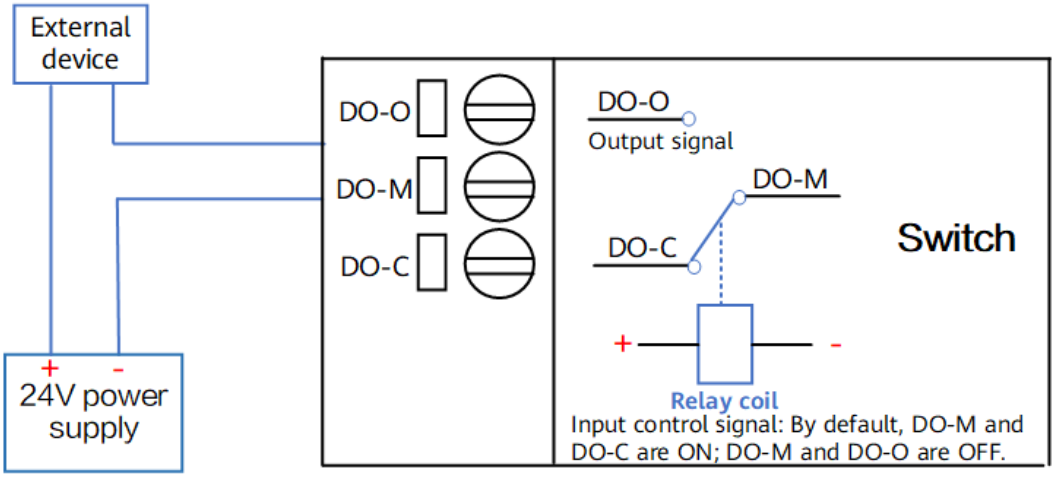

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Table 4-796 Ports on the S5735I-H24U8S4XE-QA-V2

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **PEN remote optical modules (V600R024C10 and later versions)**
GE SFP optical port	SFP	A GE SFP Ethernet optical port supports auto-sensing to 1000/100 Mbit/s. It sends and receives service data at 1000/100 Mbit/s. When the stack ports work in mode 1, ports 29 to 32 are unavailable.	• **Industrial optical modules** • **SFP-1000BaseT (02314171)**

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Port	Connector Type	Description	Available Components
Stack port	SFP+	A stack port connects multiple switches through stack cables to virtualize them into one switch logically. It is used only in stacking scenarios and does not need to be configured. In a stack, the working rate of a single port is increased to 12 Gbit/s by default. The ports can be configured to work as 10GE SFP + optical ports in mode 1 from V600R024C10 and later versions.	**0.5 m and 1.5 m SFP+ dedicated stack cables** In mode 1, the following are supported: • **Industrial optical modules** • **3 m SFP+ high-speed copper cables (only used for stack connection)** • **0.5 m and 1.5 m SFP+ dedicated stack cables** • **PEN remote optical modules (V600R024C10 and later versions)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive
DI port	5-Pin Phoenix Connector	The DI port is used to check remote communication input and level signals. Signal type: Passive DI signals, Boolean value (short circuit and open circuit)	5-Pin Phoenix Connector (DI/DO)

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Port	Connector Type	Description	Available Components
DO port	5-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. The DO port outputs signals so that the connected device can take corresponding actions.	5-Pin Phoenix Connector (DI/DO)

Indicators and Buttons

Figure 4-299 Indicators on the device

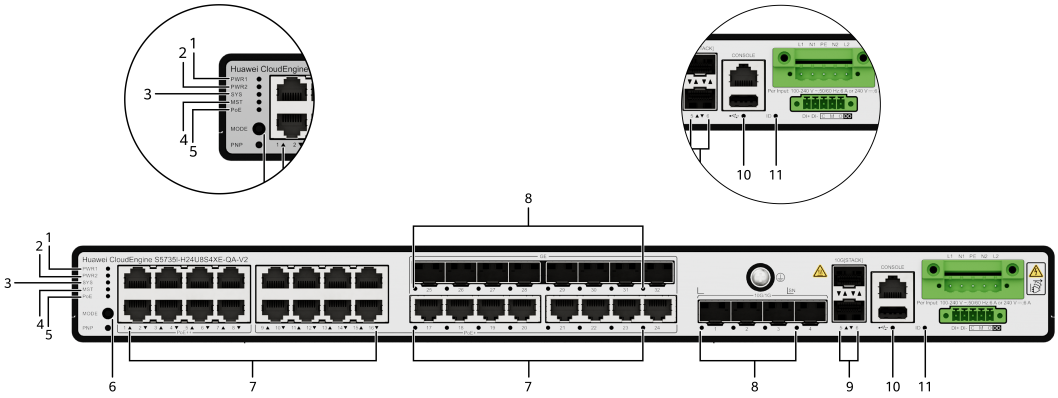

Table 4-797 Description of indicators on the device

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Indicator of power module 1	-	Off	Built-in power module 1 is not supplying power or is abnormal.
			Green	Steady on	Built-in power module 1 supplies power properly.
2	PWR 2	Indicator of power module 2	-	Off	Built-in power module 2 is not supplying power or is abnormal.
			Green	Steady on	Built-in power module 2 supplies power properly.

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No.	Indicator	Name	Color	Status	Description
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	In the system startup preparation phase, the SYS indicator is steady green for no more than 30 seconds.
			Green	Slow blinking	The system is running properly.
			Red	Steady on	The system does not work normally after registration, or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The device is a standby or slave device in a stack or the stacking function is not enabled on the device. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The device is a standby or slave device in a stack, and the service port indicators show the stack ID of the device.
			Green	Blinking	• If you are not changing the indicator mode (default): The device is the master device in a stack or a standalone device with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The device is the master device in a stack or a standalone device, and the service port indicators show the stack ID of the master device. After 45 seconds, the service port indicators automatically restore the default mode.
5	PoE	PoE indicator	-	Off	The PoE mode is not selected.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
6	MODE	Mode switching button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local device. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a fourth time, the service port indicators restore the default mode and show the connection status of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the MODE button for 6 seconds and release it to start the web initial login mode. Either of the following situations will occur: • If the device uses factory settings, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST indicator turns green and stays on for a maximum of 45 seconds. • Otherwise, check whether the device uses its factory default settings.

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No.	Indicator	Name	Color	Status	Description
7	1~24	Electrical port indicator (one indicator for each port)	Indicator arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-798**.
8	25~32 1~4	Optical port indicator (one indicator for each port)	-		
9	5~6	Optical port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green).Arrow heads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-799**.

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No.	Indicator	Name	Color	Status	Description
10	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is ongoing.
			Red	Steady on	USB-based deployment fails.
11	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The ID indicator is enabled or disabled remotely by O&M personnel for fault locating.

Table 4-798 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the device.
	Green	Steady on	The device is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the device.
	Green	Blinking	The device is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the device.

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Display Mode	Color	Status	Description
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The PD connected to the port is not a standard PD or its power exceeds the maximum power or power threshold of the port.

Table 4-799 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.

Power Supply System

The PoE switch has two built-in AC power modules and does not support pluggable power modules.

Table 4-800 Power supply configurations

Scenario	Maximum Number of Ports (Fully Loaded)
Single power input at 60°C	• 802.3af (15.4 W per port): 8 • 802.3at (30 W per port): 4 • 802.3bt (60 W per port): 2
Single power input at 50°C	• 802.3af (15.4 W per port): 9 • 802.3at (30 W per port): 5 • 802.3bt (60 W per port): 2

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Scenario	Maximum Number of Ports (Fully Loaded)
Dual power inputs at 60°C	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4
Dual power inputs at 50°C	• 802.3af (15.4 W per port): 20 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5

Heat Dissipation System

The device has no fans and uses natural heat dissipation.

Technical Specifications

Table 4-801 Technical specifications of the S5735I-H24U8S4XE-QA-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 360.0 mm (1.72 in. x 17.4 in. x 14.17 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 370.0 mm (1.72 in. x 17.4 in. x 14.57 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.280 kg (13.84 lb)
Weight with packaging [kg(lb)]	8.212 kg (18.1 lb)
Typical power consumption [W]	47.4 (30% traffic)
Typical heat dissipation [BTU/hour]	161.7 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 58 W • Full PoE load: 333 W (dual power modules, PoE load output capability: 250 W) • Full PoE load: 195 W (single power module, PoE load output capability: 130 W)
Maximum heat dissipation [BTU/hour]	• Without PoE: 198.0 • Full PoE load: 1136.2 (dual power modules, PoE load output capability: 250 W) • Full PoE load: 665.34 (single power module, PoE load output capability: 130 W)
Static power consumption [W]	34.0 W
MTBF [years]	42.98 years
Availability	0.99999469
Noise at normal temperature (acoustic power) [dB(A)]	Noise-free (no fans)
Noise at normal temperature (acoustic pressure) [dB(A)]	Noise-free (no fans)
Number of card slots	0
Number of power slots	0
Number of fans modules	0
Redundant power supply	1+1 (no backup for the PoE output)

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Item	Specification
Long-term operating temperature [°C(°F)]	0–1800 m (0–5906 ft.) altitude, industrial optical modules: ● Sealed cabinet: –40°C to +60°C (–40°F to +140°F) ● Blower-equipped cabinet (≥ 400 LFM): –40°C to +75°C (–40°F to +167°F) Configured with PEN optical modules: ● Sealed cabinet: 0°C to +45°C (32°F to 113°F) ● Blower-equipped cabinet (≥ 400 LFM): 0°C to +60°C (32°F to 140°F) When the stack ports are configured to work in mode 1 (10GE service port) and industrial-grade optical modules are installed: ● Sealed cabinet: –40°C to +50°C (–40°F to +122°F) ● Blower-equipped cabinet (≥ 400 LFM): –40°C to +65°C (–40°F to +149°F)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than -25°C (-13°F).
Storage temperature [°C(°F)]	-40°C to +85°C (-40°F to +185°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	● AC input: 100 V AC to 240 V AC, 50/60 Hz ● High-voltage DC input: 240 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 50/60 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	2.2 A
Memory	2 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Power supply surge protection [kV]	±6 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP40
Types of fans	None
Heat dissipation mode	Natural heat dissipation
Airflow direction	-
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.17 S5755-S

4.17.1 S5755-S24T8Y

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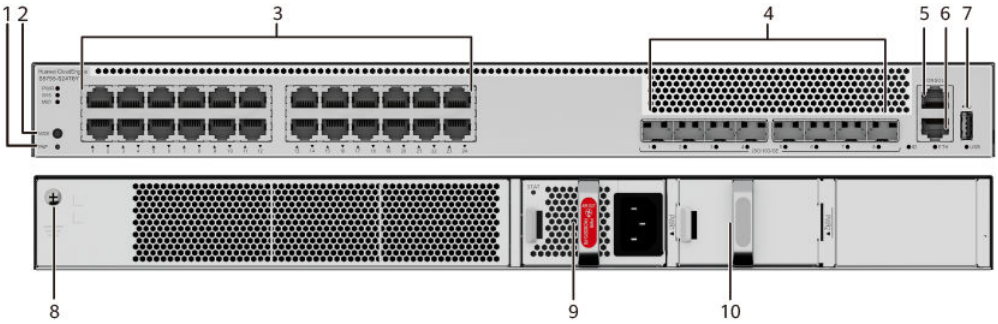
Overview

Table 4-802 Basic information about the S5755-S24T8Y

Item	Details
Description	S5755-S24T8Y (24*10/100/1000 BASE-T ports, 8*25GE SFP28 ports, without power module)
Part Number	98012708
Model	S5755-S24T8Y
First supported version	V600R024C10

Components

Figure 4-300 S5755-S24T8Y appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10/100/1000BASE-T ports	4	Eight GE/2.5GE/10GE/25GE SFP28 optical ports
5	One console port	6	One ETH management port
7	One USB port	8	Ground screw **NOTE** It is used with a **ground cable**.

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9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB**

Ports

Table 4-803 Ports on the S5755-S24T8Y

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-S24T8Y has similar indicators to those on the S5755-S24U8J8YZ except that the S5755-S24T8Y does not have a PoE mode indicator. For details, see the S5755-S24U8J8YZ.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the front side and exhausts from the rear panel.

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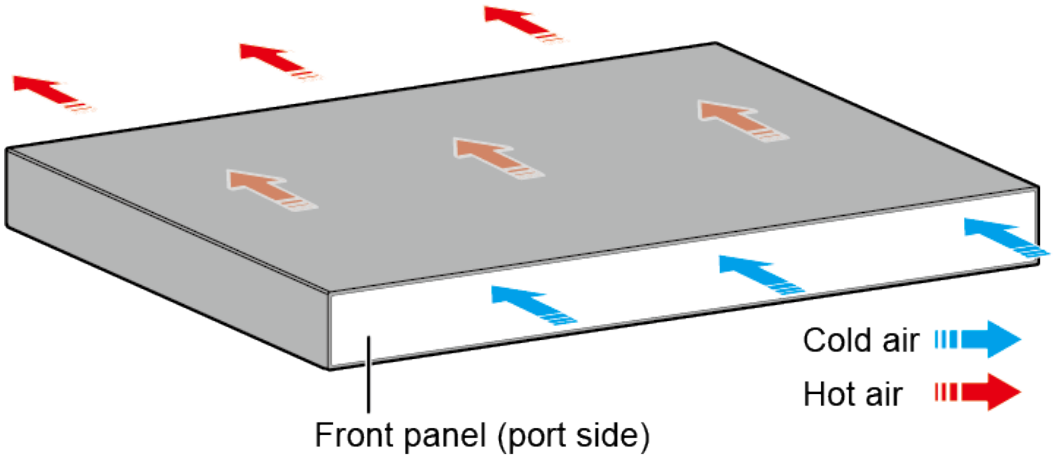

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-804 Technical specifications of the S5755-S24T8Y

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.08 kg (11.20 lb)
Weight with packaging [kg(lb)]	6.83 kg (15.06 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 46 W (all ports used, two 80 W AC power modules) • 43 W (all ports used, two 240 W DC power modules)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: ● 156.95 (all ports used, two 80 W AC power modules) ● 146.72 (all ports used, two 240 W DC power modules)
Maximum power consumption [W]	100% traffic under the ATIS standard, dual power modules: ● 48 W (all ports used, two 80 W AC power modules) ● 45 W (all ports used, two 240 W DC power modules)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard, dual power modules: ● 163.78 (all ports used, two 80 W AC power modules) ● 153.54 (all ports used, two 240 W DC power modules)
Static power consumption [W]	21 W
MTBF [years]	129.56 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	50.7 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	37.0 dBA
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.17.2 S5755-S24P8Y

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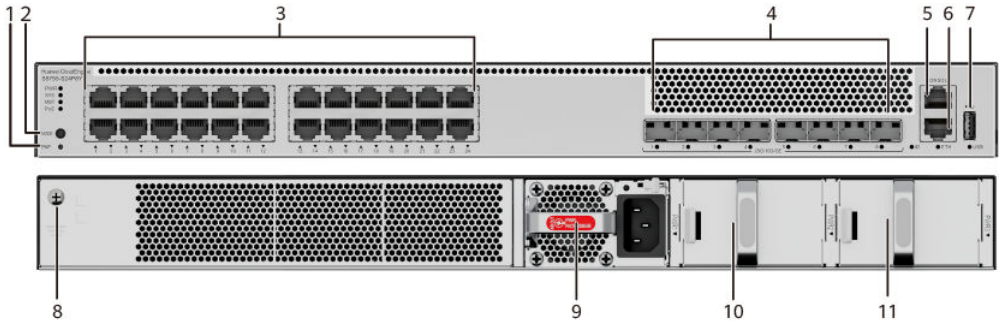
Overview

Table 4-805 Basic information about the S5755-S24P8Y

Item	Details
Description	S5755-S24P8Y (24*10/100/1000 BASE-T ports (PoE+), 8*25GE SFP28 ports, without power module)
Part Number	98012710
Model	S5755-S24P8Y
First supported version	V600R024C10

Components

Figure 4-301 S5755-S24P8Y appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10/100/1000BASE-T PoE+ ports	4	Eight GE/2.5GE/10GE/25GE SFP28 optical ports
5	One console port	6	One ETH management port
7	One USB port	8	Ground screw **NOTE** It is used with a **ground cable**.

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9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-806 Ports on the S5755-S24P8Y

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-S24P8Y has similar indicators to those on the S5755-S24U8J8YZ. For details, see the S5755-S24U8J8YZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-807 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W DC	–	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the front side and exhausts from the rear panel.

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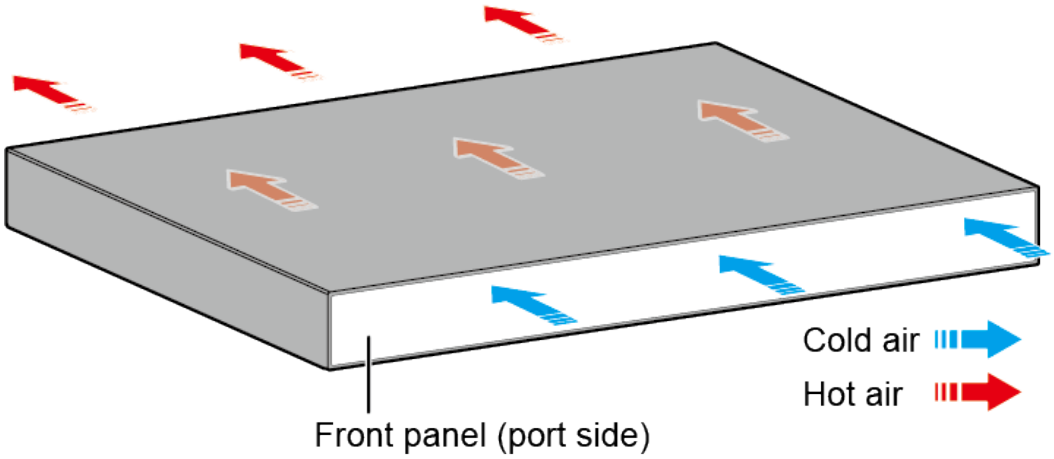

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-808 Technical specifications of the S5755-S24P8Y

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.18 kg (11.42 lb)
Weight with packaging [kg(lb)]	6.93 kg (15.28 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: - 60 W (all ports used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: - 204.72 (all ports used)

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Item	Specification
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 62 W (all ports used) • Full PoE load, three 1000 W power modules: 975 W (PoE: 840 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 211.55 (all ports used) • Full PoE load, three 1000 W power modules: 3326.75
Static power consumption [W]	29 W
MTBF [years]	109.32 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.20 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 38.5 dBA
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.17.3 S5755-S24U8Y

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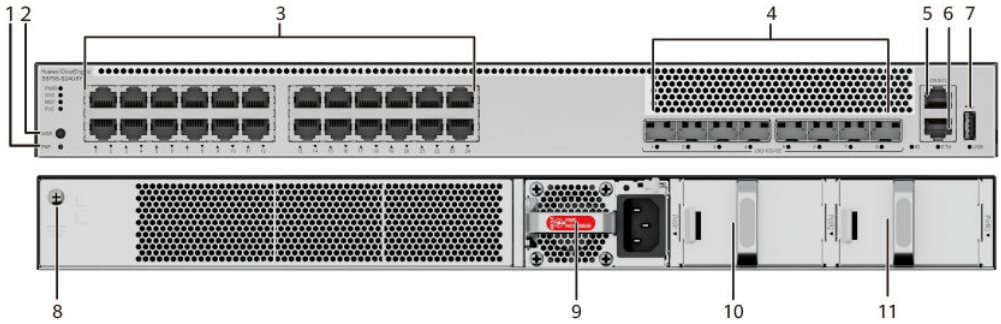
Overview

Table 4-809 Basic information about the S5755-S24U8Y

Item	Details
Description	S5755-S24U8Y (24*10/100/1000 BASE-T ports (PoE++), 8*25GE SFP28 ports, without power module)
Part Number	98012712
Model	S5755-S24U8Y
First supported version	V600R024C10

Components

Figure 4-302 S5755-S24U8Y appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10/100/1000BASE-T PoE++ ports	4	Eight GE/2.5GE/10GE/25GE SFP28 optical ports
5	One console port	6	One ETH management port
7	One USB port	8	Ground screw **NOTE** It is used with a **ground cable**.

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9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-810 Ports on the S5755-S24U8Y

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-S24U8Y has similar indicators to those on the S5755-S24U8J8YZ. For details, see the S5755-S24U8J8YZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-811 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	846 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
1000 W AC (110 V)	–	–	756 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W DC	–	–	846 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
600 W AC (220 V)	–	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
600 W AC (110 V)	–	–	228 W	• 802.3af (15.4 W per port): 14 • 802.3at (30 W per port): 7 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1746 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 19
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1566 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
600 W AC (220 V)	600 W AC (220 V)	–	1083 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 18 • 802.3bt (90 W per port): 12
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1386 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
600 W AC (110 V)	600 W AC (110 V)	–	513 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1653 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1926 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 21
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24

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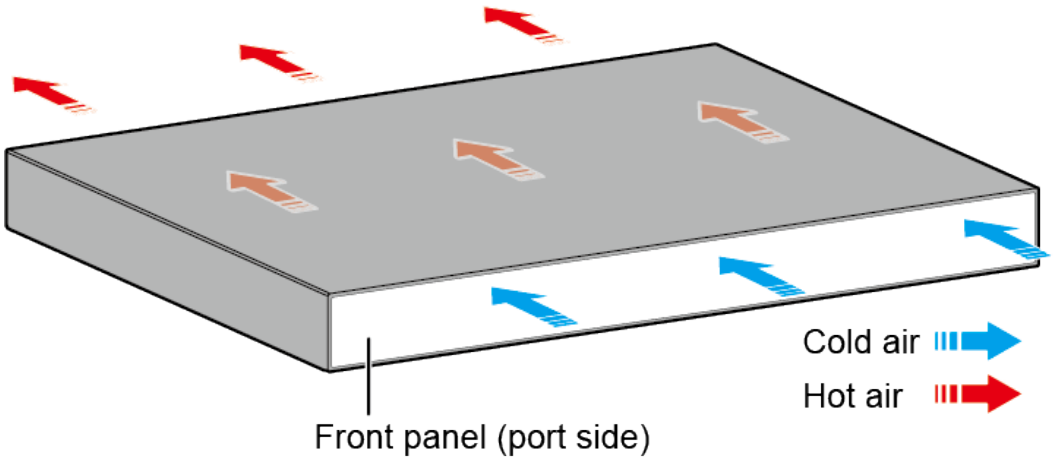
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 8

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-812 Technical specifications of the S5755-S24U8Y

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.16 kg (11.38 lb)
Weight with packaging [kg(lb)]	6.91 kg (15.23 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: - 60 W (all ports used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: - 204.72 (all ports used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 62 W (all ports used) • Full PoE load, three 1000 W power modules: 2528 W (PoE: 2268 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 211.55 (all ports used) • Full PoE load, three 1000 W power modules: 8625.67
Static power consumption [W]	29 W
MTBF [years]	101.28 years

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Item	Specification
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.20 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 38.5 dBA
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.17.4 S5755-S48T8Y

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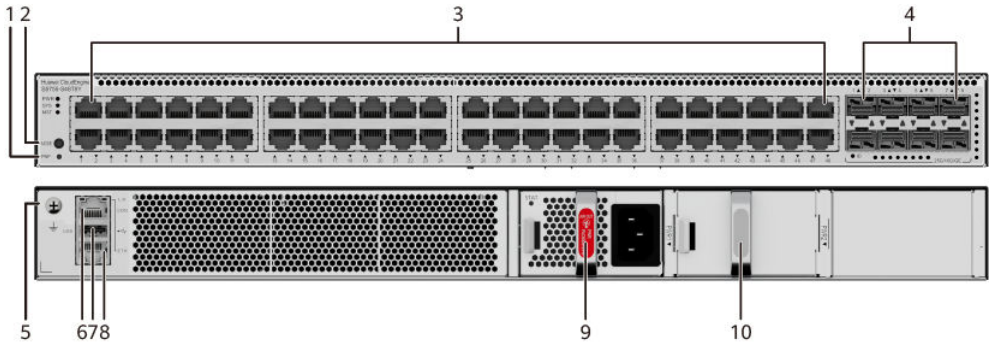
Overview

Table 4-813 Basic information about the S5755-S48T8Y

Item	Details
Description	S5755-S48T8Y (48*10/100/1000 BASE-T ports, 8*25GE SFP28 ports, without power module)
Part Number	98012714
Model	S5755-S48T8Y
First supported version	V600R024C10

Components

Figure 4-303 S5755-S48T8Y appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T ports	4	Eight GE/2.5GE/10GE/25GE SFP28 optical ports
5	Ground screw **NOTE** It is used with a **ground cable**.	6	One console port
7	One USB port	8	One ETH management port

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9	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB**

Ports

Table 4-814 Ports on the S5755-S48T8Y

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-S48T8Y has similar indicators to those on the S5755-S48U8Y except that the S5755-S48T8Y does not have a PoE mode indicator. For details, see the S5755-S48U8Y.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.

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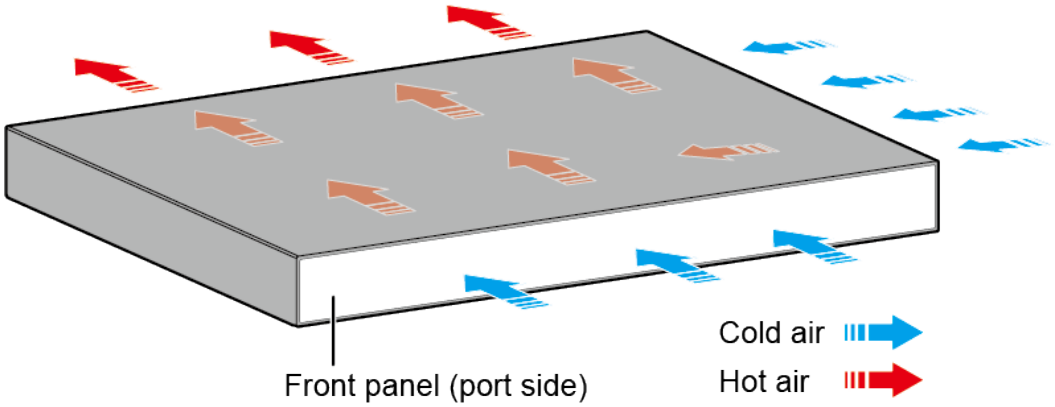

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-815 Technical specifications of the S5755-S48T8Y

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.20 kg (11.46 lb)
Weight with packaging [kg(lb)]	7.61 kg (16.78 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 56 W (all ports used, two 80 W AC power modules) • 53 W (all ports used, two 240 W DC power modules)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: ● 191.08 (all ports used, two 80 W AC power modules) ● 180.84 (all ports used, two 240 W DC power modules)
Maximum power consumption [W]	100% traffic under the ATIS standard, dual power modules: ● 58 W (all ports used, two 80 W AC power modules) ● 54 W (all ports used, two 240 W DC power modules)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard, dual power modules: ● 197.90 (all ports used, two 80 W AC power modules) ● 184.25 (all ports used, two 240 W DC power modules)
Static power consumption [W]	24 W
MTBF [years]	113.80 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	50.7 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	37.0 dBA
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.17.5 S5755-S48P8Y

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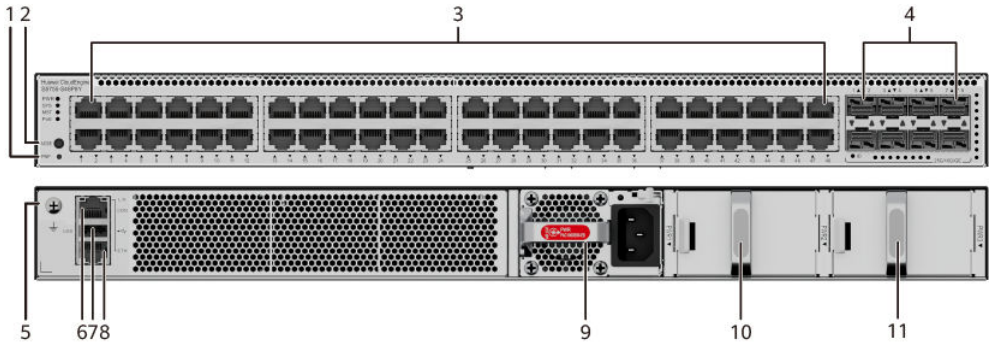
Overview

Table 4-816 Basic information about the S5755-S48P8Y

Item	Details
Description	S5755-S48P8Y (48*10/100/1000 BASE-T ports (PoE+), 8*25GE SFP28 ports, without power module)
Part Number	98012716
Model	S5755-S48P8Y
First supported version	V600R024C10

Components

Figure 4-304 S5755-S48P8Y appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T PoE + ports	4	Eight GE/2.5GE/10GE/25GE SFP28 optical ports
5	Ground screw **NOTE** It is used with a **ground cable**.	6	One console port
7	One USB port	8	One ETH management port

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9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-817 Ports on the S5755-S48P8Y

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-S48P8Y has similar indicators to those on the S5755-S48U8Y. For details, see the S5755-S48U8Y.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-818 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	738 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 24
1000 W DC	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27
600 W AC (220 V)	–	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16
600 W AC (110 V)	–	–	209 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1548 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	–	1064 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 35
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1368 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 45
600 W AC (110 V)	600 W AC (110 V)	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1634 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	779 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.

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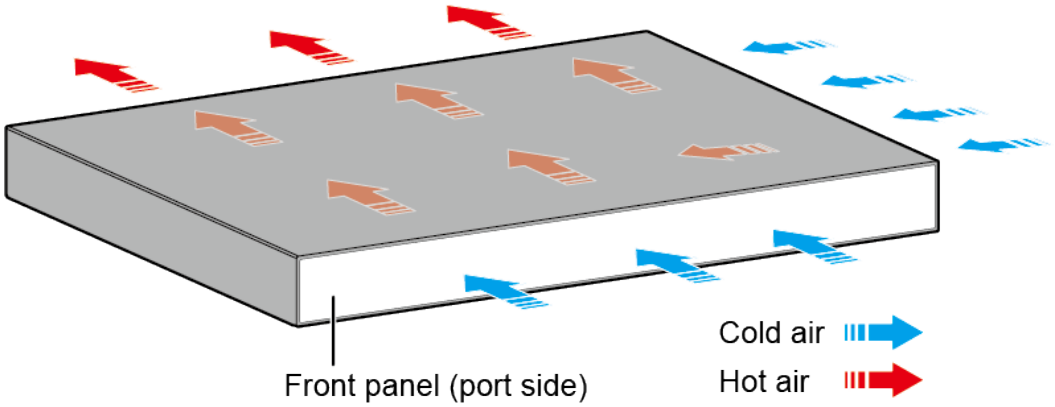

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-819 Technical specifications of the S5755-S48P8Y

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.54 kg (12.21 lb)
Weight with packaging [kg(lb)]	7.95 kg (17.53 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: - 72 W (all ports used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: - 245.67 (all ports used)

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Item	Specification
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 74 W (all ports used) • Full PoE load, three 1000 W power modules: 1881 W (PoE: 1680 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 252.49 (all ports used) • Full PoE load, three 1000 W power modules: 6418.08
Static power consumption [W]	34 W
MTBF [years]	92.12 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.20 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 38.5 dBA
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.17.6 S5755-S48U8Y

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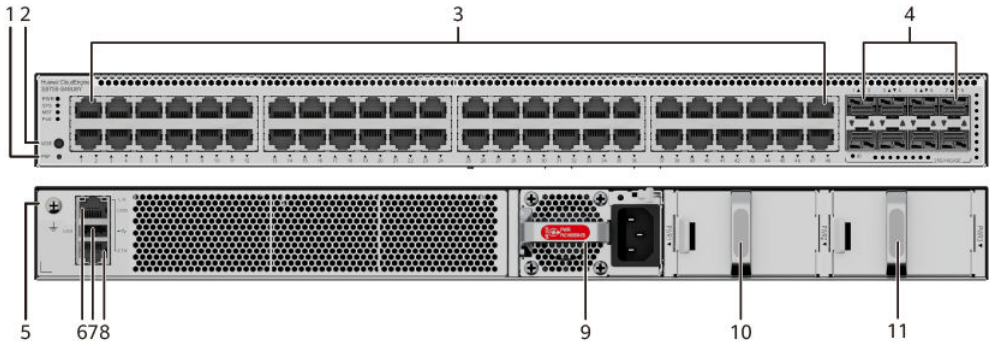
Overview

Table 4-820 Basic information about the S5755-S48U8Y

Item	Details
Description	S5755-S48U8Y (48*10/100/1000 BASE-T ports (PoE++), 8*25GE SFP28 ports, without power module)
Part Number	98012718
Model	S5755-S48U8Y
First supported version	V600R024C10

Components

Figure 4-305 S5755-S48U8Y appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T PoE ++ ports	4	Eight GE/2.5GE/10GE/25GE SFP28 optical ports
5	Ground screw **NOTE** It is used with a **ground cable**.	6	One console port
7	One USB port	8	One ETH management port

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9	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	10	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
11	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-821 Ports on the S5755-S48U8Y

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-306 Indicators on the Switch

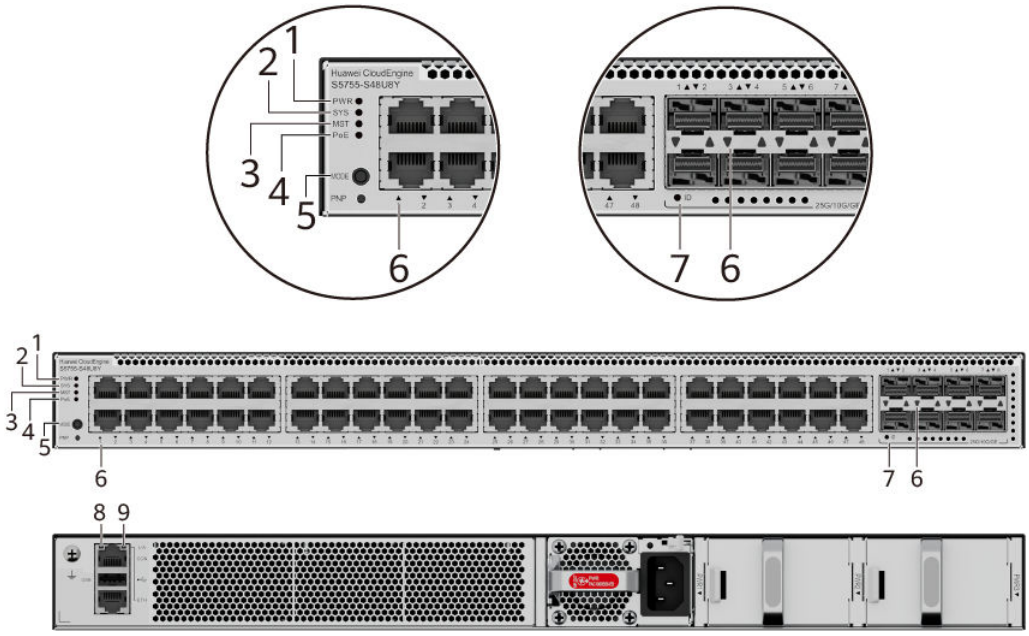

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Table 4-822 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-823**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).

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No.	Indicator	Name	Color	Status	Description
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, the indicator fails, or the USB-based deployment fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
9	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-823 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/2.5GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/2.5GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-824 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
1000 W AC (110 V)	–	–	738 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W DC	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
600 W AC (220 V)	–	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
600 W AC (110 V)	–	–	209 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 6 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1728 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28 • 802.3bt (90 W per port): 19
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1548 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25 • 802.3bt (90 W per port): 17
600 W AC (220 V)	600 W AC (220 V)	–	1064 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 35 • 802.3bt (60 W per port): 17 • 802.3bt (90 W per port): 11
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1368 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 45 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15
600 W AC (110 V)	600 W AC (110 V)	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2880 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 48 • 802.3bt (90 W per port): 32
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1634 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2268 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 37 • 802.3bt (90 W per port): 25
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1908 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 31 • 802.3bt (90 W per port): 21
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2358 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 39 • 802.3bt (90 W per port): 26

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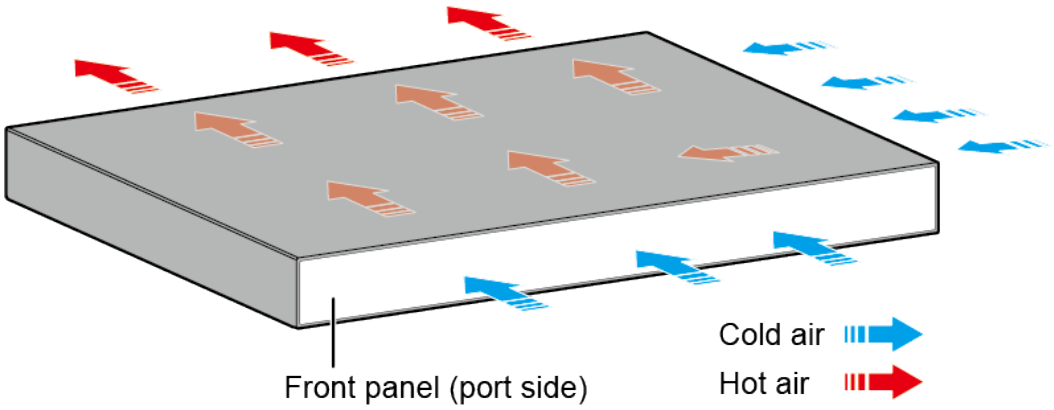
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	779 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-825 Technical specifications of the S5755-S48U8Y

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.57 kg (12.28 lb)
Weight with packaging [kg(lb)]	7.98 kg (17.59 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: - 72 W (all ports used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: - 245.67 (all ports used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 74 W (all ports used) • Full PoE load, three 1000 W power modules: 3171 W (PoE: 2880 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 252.49 (all ports used) • Full PoE load, three 1000 W power modules: 10819.63
Static power consumption [W]	34 W
MTBF [years]	83.43 years

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Item	Specification
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.20 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 38.5 dBA
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.17.7 S5755-S24T8J8YZ

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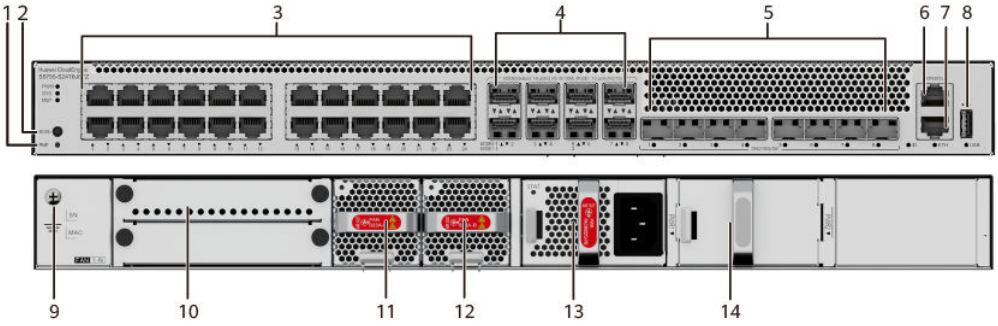
Overview

Table 4-826 Basic information about the S5755-S24T8J8YZ

Item	Details
Description	S5755-S24T8J8YZ (24*10/100/1000 BASE-T ports, 8*2.5GE SFP ports (or 2*10GE SFP+ ports), 8*25GE SFP28 ports, expansion card slot, without power module)
Part Number	98012707
Model	S5755-S24T8J8YZ
First supported version	V600R024C10
Remarks	When cards are used, power modules with a power of 180 W or higher must be used.

Components

Figure 4-307 S5755-S24T8J8YZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button

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3	Twenty-four 10/100/1000BASE-T ports	4	Eight 2.5GE SFP ports **NOTE** You can run the **port combination-mode** command to switch between two rate modes: • MODE0: Ports 1 to 8 support the rate of 2.5 Gbit/s, 1 Gbit/s, or 100 Mbit/s, but do not support the rate of 10 Gbit/s. • MODE1: Ports 1 and 2 (corresponding to ports 1 and 5 in MODE0) support the rate of 10 Gbit/s or 1 Gbit/s, but do not support the rate of 2.5 Gbit/s or 100 Mbit/s. The other six ports are unavailable.
5	Eight GE/2.5GE/10GE/25GE SFP28 optical ports	6	One console port
7	One ETH management port	8	One USB port
9	Ground screw **NOTE** It is used with a **ground cable**.	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** (For the S5755-S, ports 1, 2, 3, and 4 are 25GE optical ports by default, and ports 5, 6, 7, and 8 are unavailable.)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB**

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Ports

Table 4-827 Ports on the S5755-S24T8J8YZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
FE/GE/2.5GE SFP optical port	SFP	A FE/GE/2.5GE SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s. Two rate modes are supported: MODE0: Ports 1 to 8 support the rate of 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s, but do not support the rate of 10 Gbit/s. MODE1: Ports 1 and 2 (corresponding to ports 1 and 5 of MODE0) support the rate of 1000 Mbit/s or 10 Gbit/s, but do not support the rate of 100 Mbit/s or 2.5 Gbit/s. The other six ports are unavailable.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 40 km)** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-S24T8J8YZ has similar indicators to those on the S5755-S24U8J8YZ except that the S5755-S24T8J8YZ does not have a PoE mode indicator. For details, see the S5755-S24U8J8YZ.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.

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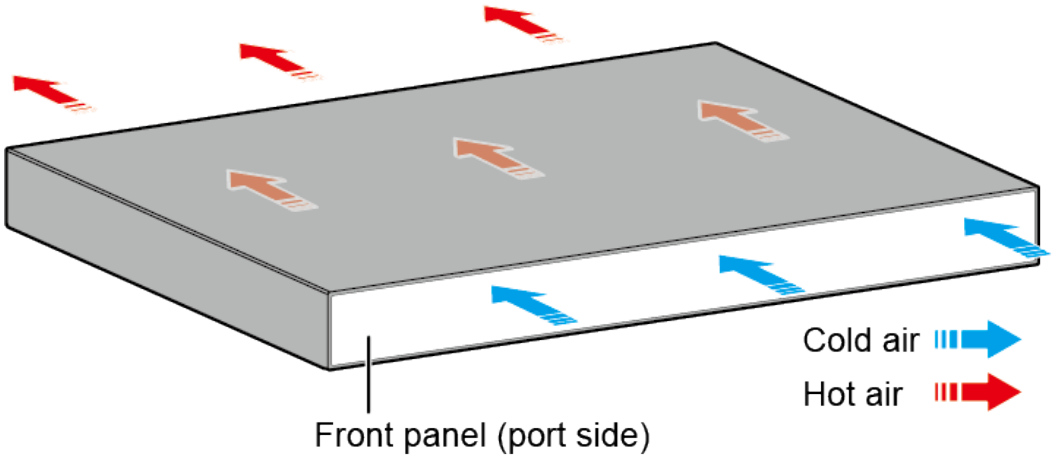

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-828 Technical specifications of the S5755-S24T8J8YZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.58 kg (12.3 lb)
Weight with packaging [kg(lb)]	7.33 kg (16.16 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 59 W (all ports used, two 80 W AC power modules) • 55 W (all ports used, two 240 W DC power modules)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: • 201.31 (all ports used, two 80 W AC power modules) • 187.66 (all ports used, two 240 W DC power modules)
Maximum power consumption [W]	100% traffic under the ATIS standard, dual power modules: • 62 W (all ports used, two 80 W AC power modules) • 58 W (all ports used, two 240 W DC power modules)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard, dual power modules: • 211.55 (all ports used, two 80 W AC power modules) • 197.90 (all ports used, two 240 W DC power modules)
Static power consumption [W]	29 W
MTBF [years]	112.66 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	51.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	37.4 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.17.8 S5755-S24P8J8YZ

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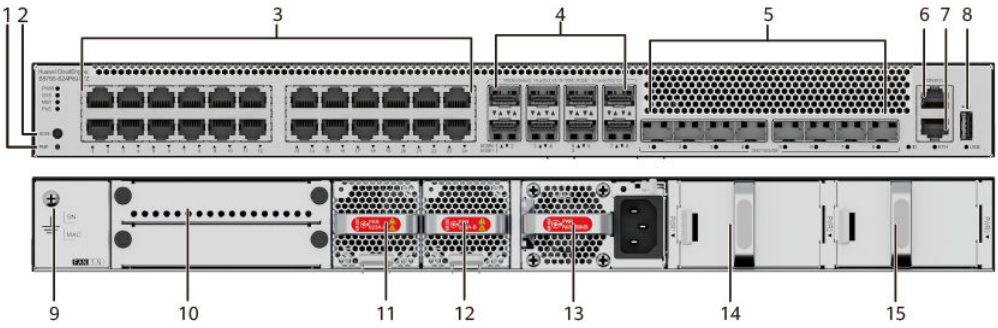
Overview

Table 4-829 Basic information about the S5755-S24P8J8YZ

Item	Details
Description	S5755-S24P8J8YZ (24*10/100/1000 BASE-T ports (PoE+), 8*2.5GE SFP ports (or 2*10GE SFP+ ports), 8*25GE SFP28 ports, expansion card slot, without power module)
Part Number	98012709
Model	S5755-S24P8J8YZ
First supported version	V600R024C10

Components

Figure 4-308 S5755-S24P8J8YZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button

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3	Twenty-four 10/100/1000BASE-T PoE+ ports	4	Eight 2.5GE SFP ports **NOTE** You can run the **port combination-mode** command to switch between two rate modes: • MODE0: Ports 1 to 8 support the rate of 2.5 Gbit/s, 1 Gbit/s, or 100 Mbit/s, but do not support the rate of 10 Gbit/s. • MODE1: Ports 1 and 2 (corresponding to ports 1 and 5 in MODE0) support the rate of 10 Gbit/s or 1 Gbit/s, but do not support the rate of 2.5 Gbit/s or 100 Mbit/s. The other six ports are unavailable.
5	Eight GE/2.5GE/10GE/25GE SFP28 optical ports	6	One console port
7	One ETH management port	8	One USB port
9	Ground screw **NOTE** It is used with a **ground cable**.	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** (For the S5755-S, ports 1, 2, 3, and 4 are 25GE optical ports by default, and ports 5, 6, 7, and 8 are unavailable.)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

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15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-830 Ports on the S5755-S24P8J8YZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
FE/GE/2.5GE SFP optical port	SFP	A FE/GE/2.5GE SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s. Two rate modes are supported: MODE0: Ports 1 to 8 support the rate of 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s, but do not support the rate of 10 Gbit/s. MODE1: Ports 1 and 2 (corresponding to ports 1 and 5 of MODE0) support the rate of 1000 Mbit/s or 10 Gbit/s, but do not support the rate of 100 Mbit/s or 2.5 Gbit/s. The other six ports are unavailable.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 40 km)** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-S24P8J8YZ has similar indicators to those on the S5755-S24U8J8YZ. For details, see the S5755-S24U8J8YZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-831 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	828 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	738 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W DC	–	–	828 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	–	–	494 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 16
600 W AC (110 V)	–	–	209 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	–	494 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 16

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	779 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.

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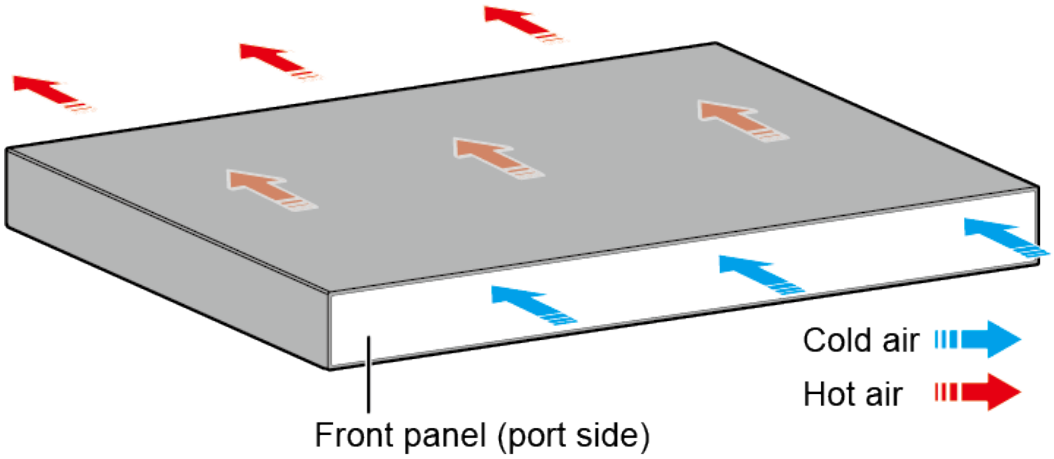

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-832 Technical specifications of the S5755-S24P8J8YZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.82 kg (12.83 lb)
Weight with packaging [kg(lb)]	7.57 kg (16.69 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: - 74 W (all ports used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: - 252.49 (all ports used)

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Item	Specification
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 77 W (all ports used) • Full PoE load, three 1000 W power modules: 990 W (PoE: 840 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 262.73 (all ports used) • Full PoE load, three 1000 W power modules: 3377.93
Static power consumption [W]	37 W
MTBF [years]	94.62 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.50 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 38.8 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.17.9 S5755-S24U8J8YZ

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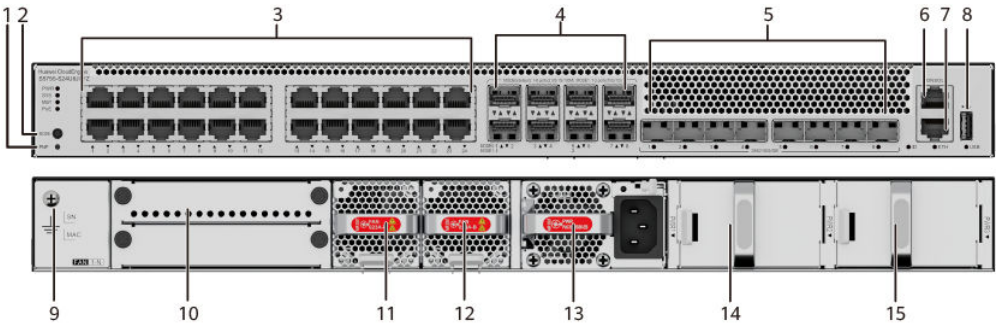
Overview

Table 4-833 Basic information about the S5755-S24U8J8YZ

Item	Details
Description	S5755-S24U8J8YZ (24*10/100/1000 BASE-T ports (PoE++), 8*2.5GE SFP ports (or 2*10GE SFP+ ports), 8*25GE SFP28 ports, expansion card slot, without power module)
Part Number	98012711
Model	S5755-S24U8J8YZ
First supported version	V600R024C10

Components

Figure 4-309 S5755-S24U8J8YZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button

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3	Twenty-four 10/100/1000BASE-T PoE++ ports	4	Eight 2.5GE SFP ports **NOTE** You can run the **port combination-mode** command to switch between two rate modes: • MODE0: Ports 1 to 8 support the rate of 2.5 Gbit/s, 1 Gbit/s, or 100 Mbit/s, but do not support the rate of 10 Gbit/s. • MODE1: Ports 1 and 2 (corresponding to ports 1 and 5 in MODE0) support the rate of 10 Gbit/s or 1 Gbit/s, but do not support the rate of 2.5 Gbit/s or 100 Mbit/s. The other six ports are unavailable.
5	Eight GE/2.5GE/10GE/25GE SFP28 optical ports	6	One console port
7	One ETH management port	8	One USB port
9	Ground screw **NOTE** It is used with a **ground cable**.	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** (For the S5755-S, ports 1, 2, 3, and 4 are 25GE optical ports by default, and ports 5, 6, 7, and 8 are unavailable.)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

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15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-834 Ports on the S5755-S24U8J8YZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
FE/GE/2.5GE SFP optical port	SFP	A FE/GE/2.5GE SFP Ethernet optical port sends and receives service data at 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s. Two rate modes are supported: MODE0: Ports 1 to 8 support the rate of 100 Mbit/s, 1000 Mbit/s or 2.5 Gbit/s, but do not support the rate of 10 Gbit/s. MODE1: Ports 1 and 2 (corresponding to ports 1 and 5 of MODE0) support the rate of 1000 Mbit/s or 10 Gbit/s, but do not support the rate of 100 Mbit/s or 2.5 Gbit/s. The other six ports are unavailable.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules (the maximum transmission distance cannot exceed 40 km)** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-310 Indicators on the Switch

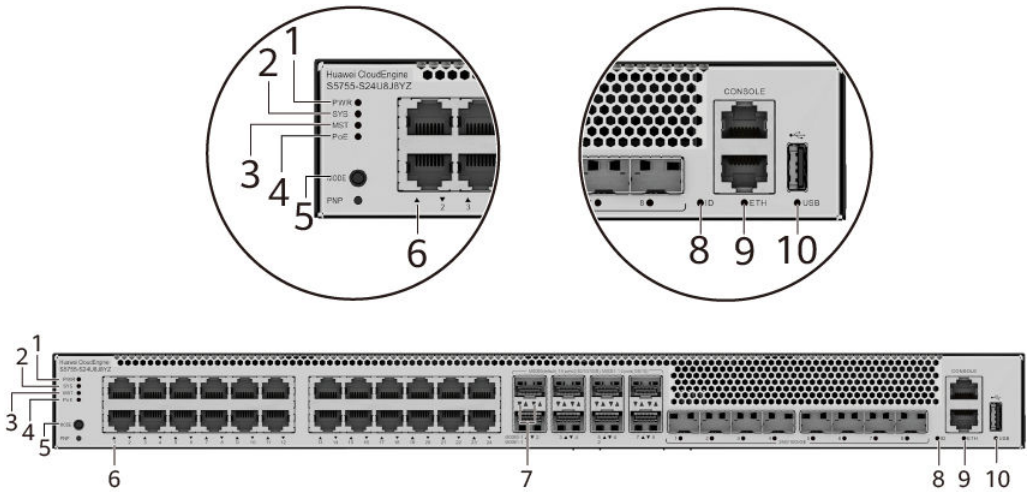

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Table 4-835 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-836** and **Table 4-837**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
7	-	Optical service port indicator (two indicators for each port)	Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	ETH	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.
10	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-836 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

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Display Mode	Color	Status	Description
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/2.5GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/2.5GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s.

Table 4-837 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	-	Off	The port is not connected or has been shut down, or no data is transmitted or received.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 100M/1GE/2.5GE SFP+ port: The port is operating at 100 Mbit/s or 1 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	• 100M/1GE/2.5GE SFP+ port: The port is operating at 2.5 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

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Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-838 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	828 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
1000 W AC (110 V)	–	–	738 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W DC	–	–	828 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
600 W AC (220 V)	–	–	494 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	–	–	209 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 6 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1728 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 19
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1548 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
600 W AC (220 V)	600 W AC (220 V)	–	1064 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 17 • 802.3bt (90 W per port): 11
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1368 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	–	494 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1634 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1908 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 21

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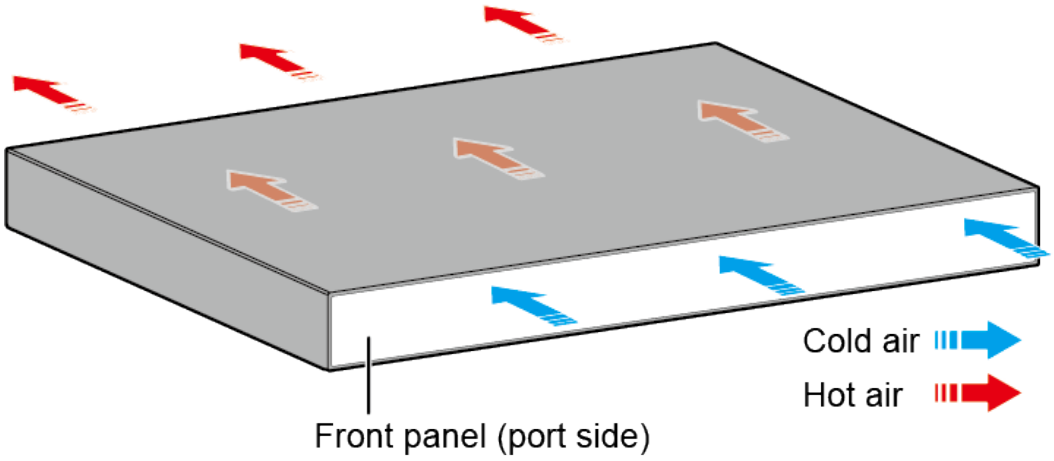
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	779 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-839 Technical specifications of the S5755-S24U8J8YZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.82 kg (12.83 lb)
Weight with packaging [kg(lb)]	7.57 kg (16.69 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: - 74 W (all ports used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: - 252.49 (all ports used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 77 W (all ports used) • Full PoE load, three 1000 W power modules: 2542 W (PoE: 2268 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 262.73 (all ports used) • Full PoE load, three 1000 W power modules: 8673.44
Static power consumption [W]	37 W
MTBF [years]	90.65 years

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Item	Specification
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.50 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 38.8 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.17.10 S5755-S48T8YZ

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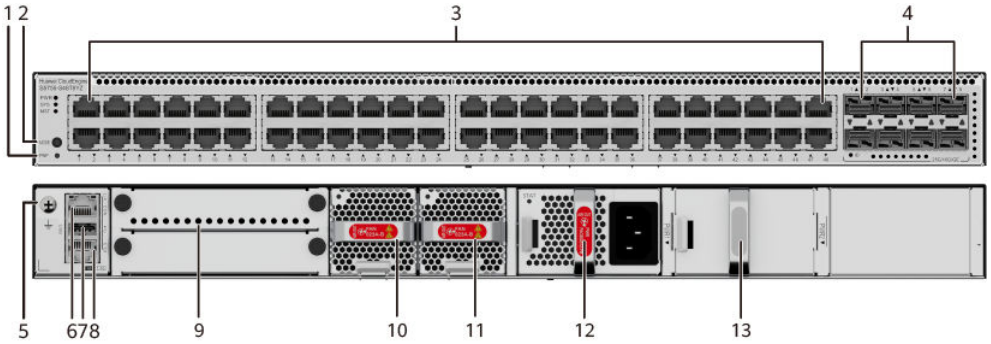
Overview

Table 4-840 Basic information about the S5755-S48T8YZ

Item	Details
Description	S5755-S48T8YZ (48*10/100/1000 BASE-T ports, 8*25GE SFP28 ports, expansion card slot, without power module)
Part Number	98012713
Model	S5755-S48T8YZ
First supported version	V600R024C10
Remarks	When cards are used, power modules with a power of 180 W or higher must be used.

Components

Figure 4-311 S5755-S48T8YZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T ports	4	Eight GE/2.5GE/10GE/25GE SFP28 optical ports

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5	Ground screw **NOTE** It is used with a **ground cable**.	6	One console port
7	One USB port	8	One ETH management port
9	Card slot **NOTE** Applicable card: • **HSIC-X08S000** (For the S5755-S, ports 1, 2, 3, and 4 are 25GE optical ports by default, and ports 5, 6, 7, and 8 are unavailable.)	10	Fan module slot 1 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 2 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB**
13	Power module slot 2 **NOTE** Applicable power modules: • **PAC80S12-CN** • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB**	-	-

Ports

Table 4-841 Ports on the S5755-S48T8YZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-S48T8YZ has similar indicators to those on the S5755-S48U8Y except that the S5755-S48T8YZ does not have a PoE mode indicator. For details, see the S5755-S48U8Y.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.

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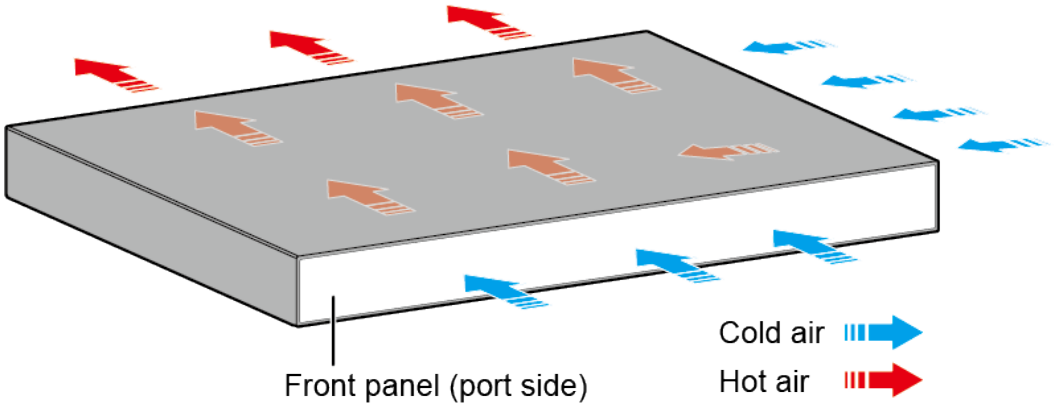

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-842 Technical specifications of the S5755-S48T8YZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.74 kg (12.65 lb)
Weight with packaging [kg(lb)]	8.15 kg(lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 54 W (all ports used, two 80 W AC power modules) • 51 W (all ports used, two 240 W DC power modules)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: ● 184.25 (all ports used, two 80 W AC power modules) ● 174.01 (all ports used, two 240 W DC power modules)
Maximum power consumption [W]	100% traffic under the ATIS standard, dual power modules: ● 56 W (all ports used, two 80 W AC power modules) ● 53 W (all ports used, two 240 W DC power modules)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard, dual power modules: ● 191.08 (all ports used, two 80 W AC power modules) ● 180.84 (all ports used, two 240 W DC power modules)
Static power consumption [W]	23 W
MTBF [years]	109.98 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	51.6 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	37.9 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.17.11 S5755-S48P8YZ

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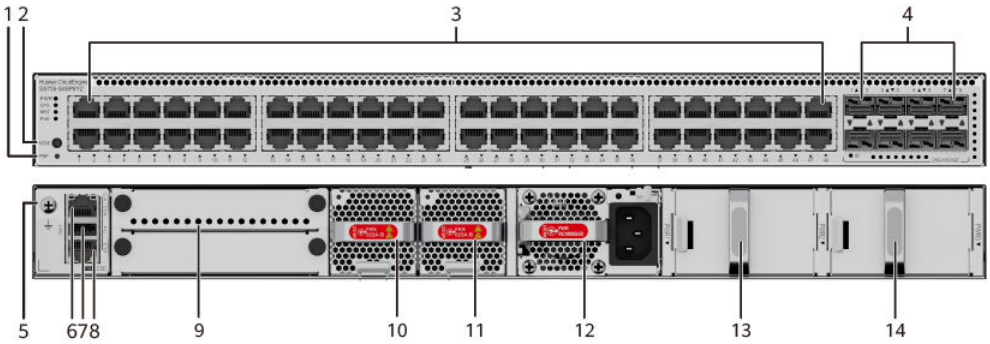
Overview

Table 4-843 Basic information about the S5755-S48P8YZ

Item	Details
Description	S5755-S48P8YZ (48*10/100/1000 BASE-T ports (PoE+), 8*25GE SFP28 ports, expansion card slot, without power module)
Part Number	98012715
Model	S5755-S48P8YZ
First supported version	V600R024C10

Components

Figure 4-312 S5755-S48P8YZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T PoE + ports	4	Eight GE/2.5GE/10GE/25GE SFP28 optical ports
5	Ground screw **NOTE** It is used with a **ground cable**.	6	One console port

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7	One USB port	8	One ETH management port
9	Card slot **NOTE** Applicable card: • **HSIC-X08S000** (For the S5755-S, ports 1, 2, 3, and 4 are 25GE optical ports by default, and ports 5, 6, 7, and 8 are unavailable.)	10	Fan module slot 1 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 2 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
13	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

Ports

Table 4-844 Ports on the S5755-S48P8YZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-S48P8YZ has similar indicators to those on the S5755-S48U8Y. For details, see the S5755-S48U8Y.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-845 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	738 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 24
1000 W DC	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27
600 W AC (220 V)	–	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16
600 W AC (110 V)	–	–	209 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1548 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	–	1064 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 35
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1368 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 45
600 W AC (110 V)	600 W AC (110 V)	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1634 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	779 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.

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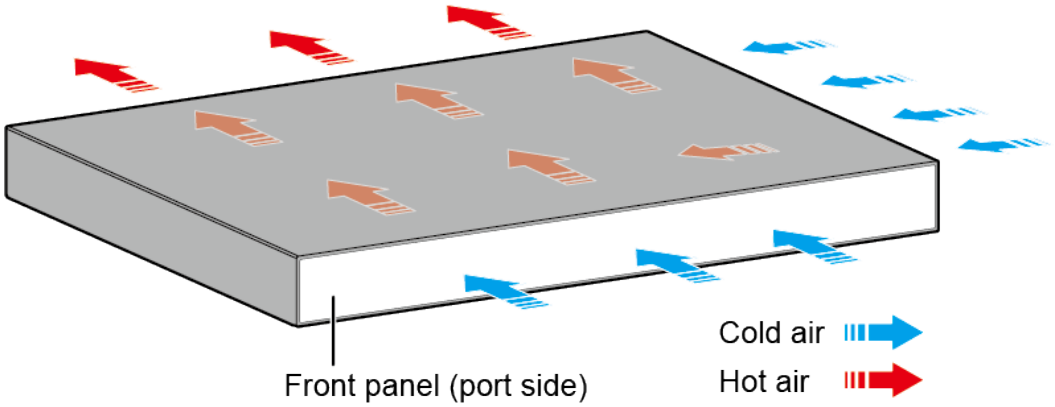

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-846 Technical specifications of the S5755-S48P8YZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.06 kg (13.36 lb)
Weight with packaging [kg(lb)]	8.47 kg (18.67 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: - 71 W (all ports used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: - 242.26 (all ports used)

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Item	Specification
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 73 W (all ports used) • Full PoE load, three 1000 W power modules: 1880 W (PoE: 1680 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 249.08 (all ports used) • Full PoE load, three 1000 W power modules: 6414.66
Static power consumption [W]	34 W
MTBF [years]	89.60 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.9 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 39.2 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.17.12 S5755-S48U8YZ

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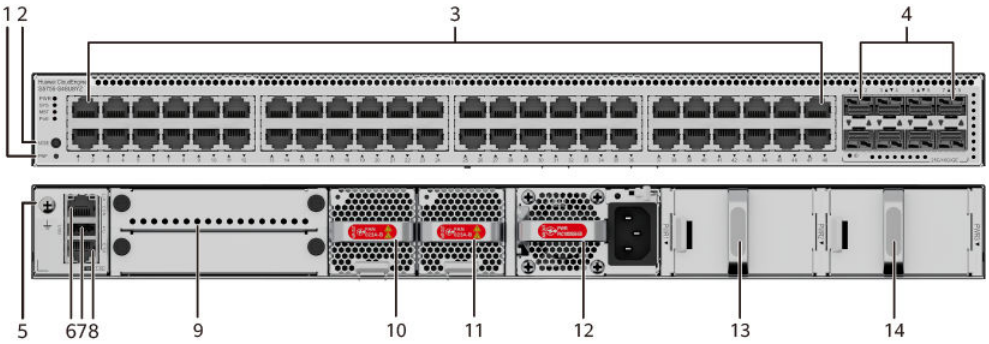
Overview

Table 4-847 Basic information about the S5755-S48U8YZ

Item	Details
Description	S5755-S48U8YZ (48*10/100/1000 BASE-T ports (PoE++), 8*25GE SFP28 ports, expansion card slot, without power module)
Part Number	98012717
Model	S5755-S48U8YZ
First supported version	V600R024C10

Components

Figure 4-313 S5755-S48U8YZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T PoE ++ ports	4	Eight GE/2.5GE/10GE/25GE SFP28 optical ports
5	Ground screw **NOTE** It is used with a **ground cable**.	6	One console port

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7	One USB port	8	One ETH management port
9	Card slot **NOTE** Applicable card: • **HSIC-X08S000** (For the S5755-S, ports 1, 2, 3, and 4 are 25GE optical ports by default, and ports 5, 6, 7, and 8 are unavailable.)	10	Fan module slot 1 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 2 **NOTE** Applicable fan module: **7.1 FAN-023A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
13	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

Ports

Table 4-848 Ports on the S5755-S48U8YZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. When a GE optical module or GE copper module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m SFP28 high-speed copper cable**

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Port	Connector Type	Description	Available Components
			(only 02311MNV) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-S48U8YZ has similar indicators to those on the S5755-S48U8Y. For details, see the S5755-S48U8Y.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-849 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
1000 W AC (110 V)	–	–	738 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W DC	–	–	828 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
600 W AC (220 V)	–	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
600 W AC (110 V)	–	–	209 W	• 802.3af (15.4 W per port): 13 • 802.3at (30 W per port): 6 • 802.3bt (60 W per port): 3 • 802.3bt (90 W per port): 2

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1728 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28 • 802.3bt (90 W per port): 19
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1548 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25 • 802.3bt (90 W per port): 17
600 W AC (220 V)	600 W AC (220 V)	–	1064 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 35 • 802.3bt (60 W per port): 17 • 802.3bt (90 W per port): 11
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1368 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 45 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 15
600 W AC (110 V)	600 W AC (110 V)	–	494 W	• 802.3af (15.4 W per port): 32 • 802.3at (30 W per port): 16 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2880 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 48 • 802.3bt (90 W per port): 32
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1634 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2268 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 37 • 802.3bt (90 W per port): 25
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1908 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 31 • 802.3bt (90 W per port): 21
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2358 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 39 • 802.3bt (90 W per port): 26

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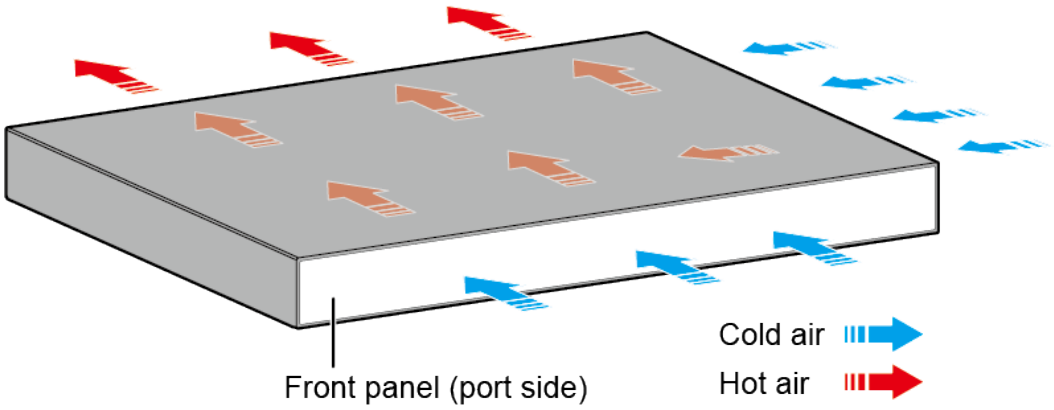
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	779 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-850 Technical specifications of the S5755-S48U8YZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.09 kg (13.43 lb)
Weight with packaging [kg(lb)]	8.50 kg (18.74 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: - 71 W (all ports used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: - 242.26 (all ports used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 73 W (all ports used) • Full PoE load, three 1000 W power modules: 3170 W (PoE: 2880 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 249.08 (all ports used) • Full PoE load, three 1000 W power modules: 10816.21
Static power consumption [W]	34 W
MTBF [years]	81.37 years

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Item	Specification
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.9 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 39.2 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation at 50°C (122°F) cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 1 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.18 S5755-H

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4.18.1 S5755-H24T4Y2CZ (98012219)

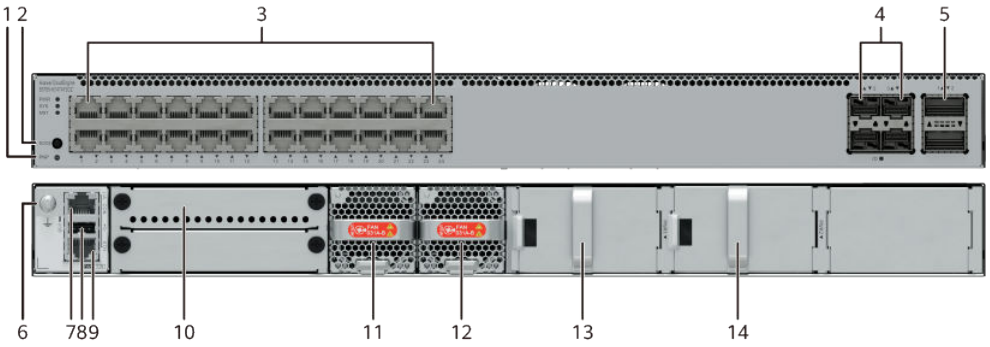
Overview

Table 4-851 Basic information about the S5755-H24T4Y2CZ

Item	Details
Description	S5755-H24T4Y2CZ (24*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, without power module)
Part Number	98012219
Model	S5755-H24T4Y2CZ
First supported version	V600R023C00

Components

Figure 4-314 S5755-H24T4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10/100/1000BASE-T ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**

Ports

Table 4-852 Ports on the S5755-H24T4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (V600R024C10 and later**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H24T4Y2CZ has similar indicators to those on the S5755-H24U4Y2CZ except that the S5755-H24T4Y2CZ does not have a PoE mode indicator. For details, see the S5755-H24U4Y2CZ.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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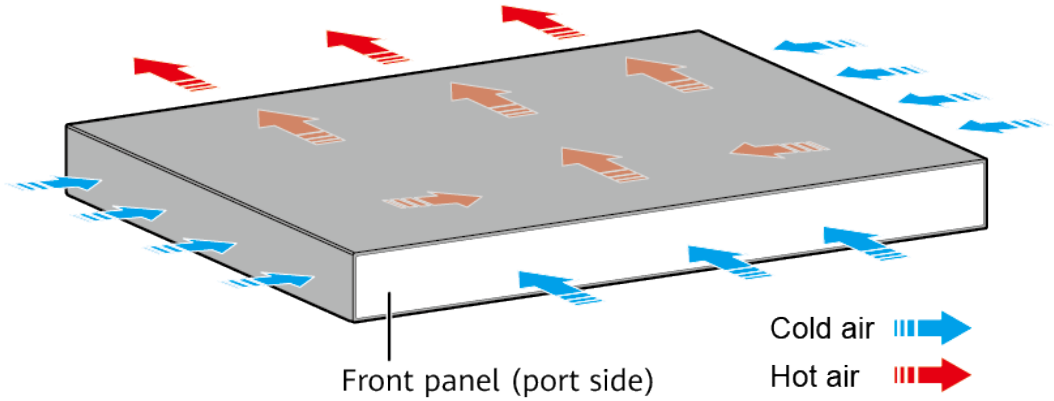

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-853 Technical specifications of the S5755-H24T4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.78 kg (12.74 lb)
Weight with packaging [kg(lb)]	7.65 kg (16.87 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 73 W (all ports used) • 62 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: ● 211.55 (all ports used) ● 286.62 (2 x 100GE ports not used)
Maximum power consumption [W]	100% traffic under the ATIS standard, dual power modules: ● 84 W (all ports used) ● 73 W (2 x 100GE ports not used)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard, dual power modules: ● 286.62 (all ports used) ● 249.08 (2 x 100GE ports not used)
Static power consumption [W]	51 W
MTBF [years]	95.25 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	48.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	36.1 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.2 S5755-H24T4Y2CZ (98012219-001)

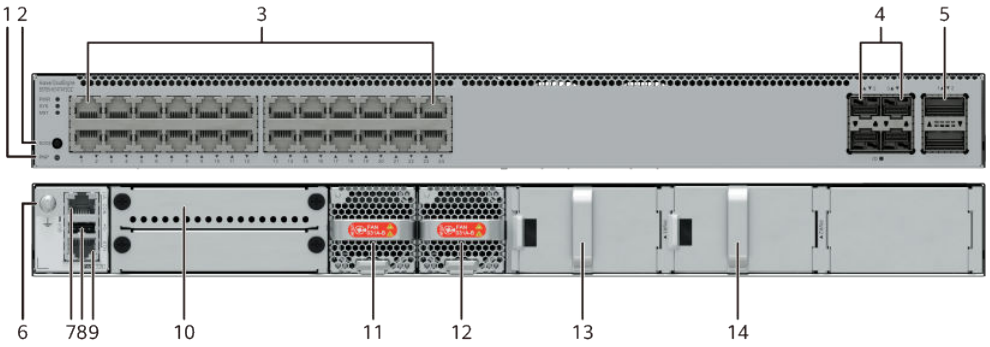
Overview

Table 4-854 Basic information about the S5755-H24T4Y2CZ

Item	Details
Description	S5755-H24T4Y2CZ (24*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, without power module)
Part Number	98012219-001
Model	S5755-H24T4Y2CZ
First supported version	V600R023C00

Components

Figure 4-315 S5755-H24T4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10/100/1000BASE-T ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**

Ports

Table 4-855 Ports on the S5755-H24T4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H24T4Y2CZ has similar indicators to those on the S5755-H24U4Y2CZ except that the S5755-H24T4Y2CZ does not have a PoE mode indicator. For details, see the S5755-H24U4Y2CZ.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

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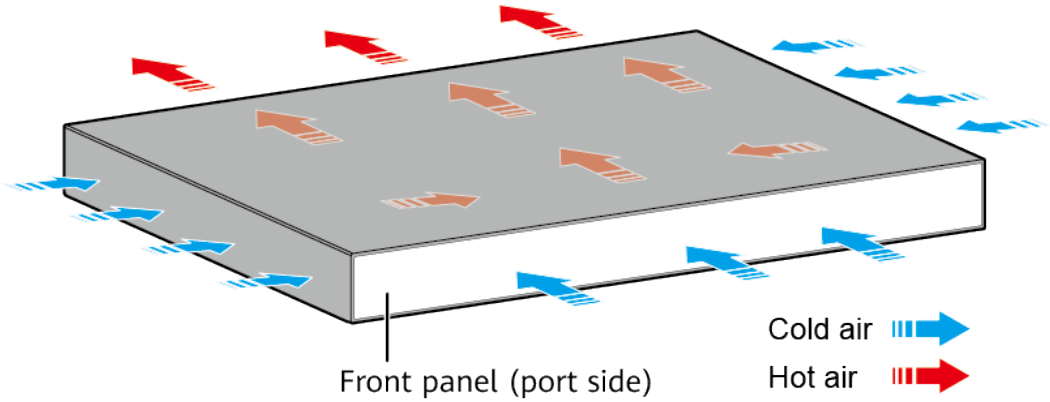
Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-856 Technical specifications of the S5755-H24T4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.78 kg (12.74 lb)
Weight with packaging [kg(lb)]	7.65 kg (16.87 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 73 W (all ports used) • 62 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: ● 211.55 (all ports used) ● 286.62 (2 x 100GE ports not used)
Maximum power consumption [W]	100% traffic under the ATIS standard, dual power supplies: ● 84 W (all ports used) ● 73 W (2 x 100GE ports not used)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard, dual power supplies: ● 286.62 (all ports used) ● 249.08 (2 x 100GE ports not used)
Static power consumption [W]	51 W
MTBF [years]	95.25 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	48.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	36.1 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.3 S5755-H24P4Y2CZ (98012220)

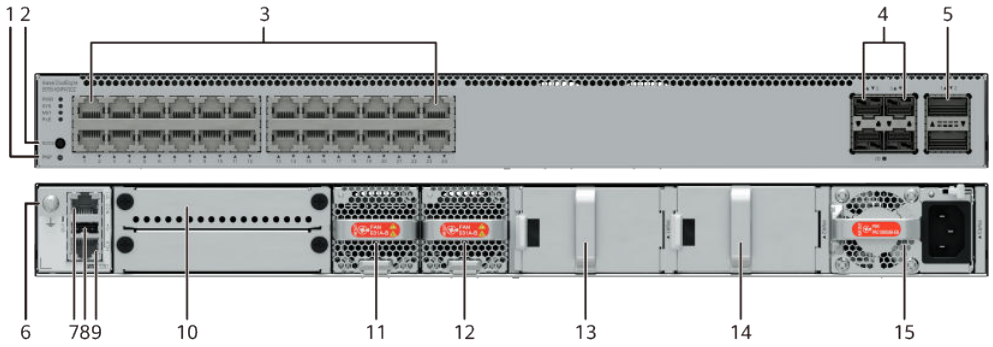
Overview

Table 4-857 Basic information about the S5755-H24P4Y2CZ

Item	Details
Description	S5755-H24P4Y2CZ (24*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, PoE+, without power module)
Part Number	98012220
Model	S5755-H24P4Y2CZ
First supported version	V600R023C00

Components

Figure 4-316 S5755-H24P4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10/100/1000BASE-T PoE+ ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-858 Ports on the S5755-H24P4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	A 10/100/1000BASE-T PoE+ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (V600R024C10 and later**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H24P4Y2CZ has similar indicators to those on the S5755-H24U4Y2CZ. For details, see the S5755-H24U4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-859 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	789 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	699 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 23
1000 W DC	–	–	789 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	–	–	453 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15
600 W AC (110 V)	–	–	168 W	• 802.3af (15.4 W per port): 10 • 802.3at (30 W per port): 5
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	–	453 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	732 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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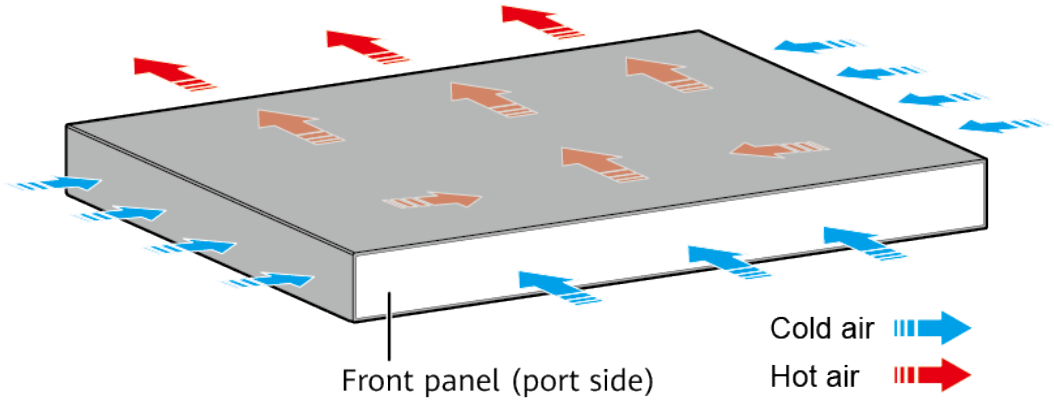

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-860 Technical specifications of the S5755-H24P4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.13 kg (13.51 lb)
Weight with packaging [kg(lb)]	8.01 kg (17.66 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 88 W (all ports used) • 77 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 300.26 (all ports used) • 262.73 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 100 W (all ports used) • 88 W (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 976 W (PoE: 840 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 341.21 (all ports used) • 300.26 (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 3330.21
Static power consumption [W]	62 W
MTBF [years]	77.84 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 40.7 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.4 S5755-H24P4Y2CZ (98012220-001)

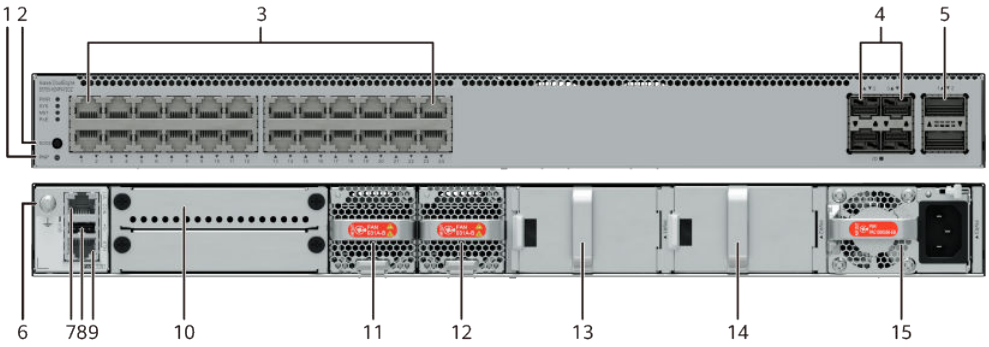
Overview

Table 4-861 Basic information about the S5755-H24P4Y2CZ

Item	Details
Description	S5755-H24P4Y2CZ (24*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, PoE+, without power module)
Part Number	98012220-001
Model	S5755-H24P4Y2CZ
First supported version	V600R023C00

Components

Figure 4-317 S5755-H24P4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10/100/1000BASE-T PoE+ ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-862 Ports on the S5755-H24P4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	A 10/100/1000BASE-T PoE+ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H24P4Y2CZ has similar indicators to those on the S5755-H24U4Y2CZ. For details, see the S5755-H24U4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-863 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	789 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V)	–	–	699 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 23
1000 W DC	–	–	789 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	–	–	453 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15
600 W AC (110 V)	–	–	168 W	• 802.3af (15.4 W per port): 10 • 802.3at (30 W per port): 5
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	–	453 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	840 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	732 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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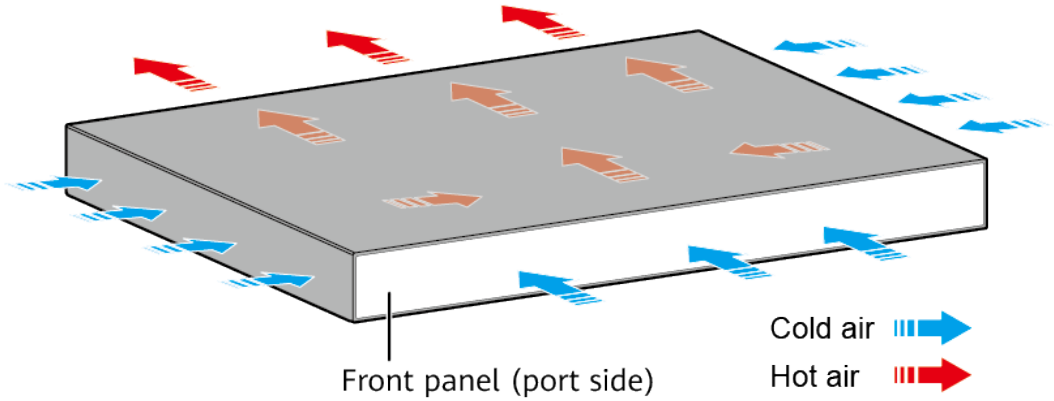

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-864 Technical specifications of the S5755-H24P4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.13 kg (13.51 lb)
Weight with packaging [kg(lb)]	8.01 kg (17.66 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 88 W (all ports used) • 77 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 300.26 (all ports used) • 262.73 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 100 W (all ports used) • 88 W (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 976 W (PoE: 840 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 341.21 (all ports used) • 300.26 (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 3330.21
Static power consumption [W]	62 W
MTBF [years]	77.84 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 40.7 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.5 S5755-H24U4Y2CZ (98012221)

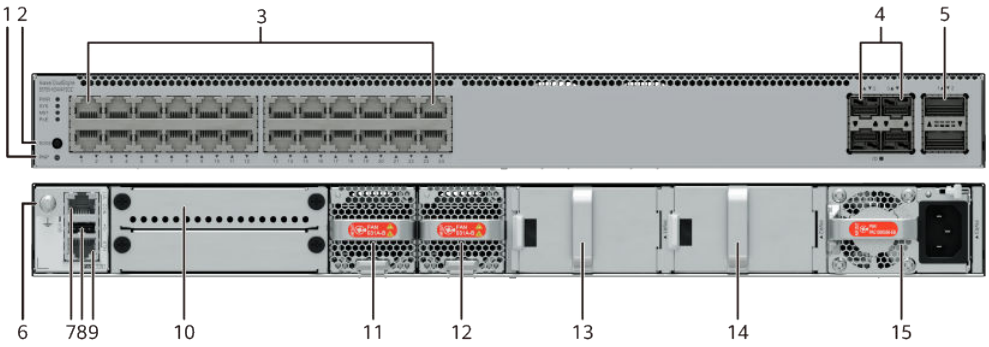
Overview

Table 4-865 Basic information about the S5755-H24U4Y2CZ

Item	Details
Description	S5755-H24U4Y2CZ (24*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	98012221
Model	S5755-H24U4Y2CZ
First supported version	V600R023C00

Components

Figure 4-318 S5755-H24U4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10/100/1000BASE-T PoE++ ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-866 Ports on the S5755-H24U4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (V600R024C10 and later**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-319 Indicators on the Switch

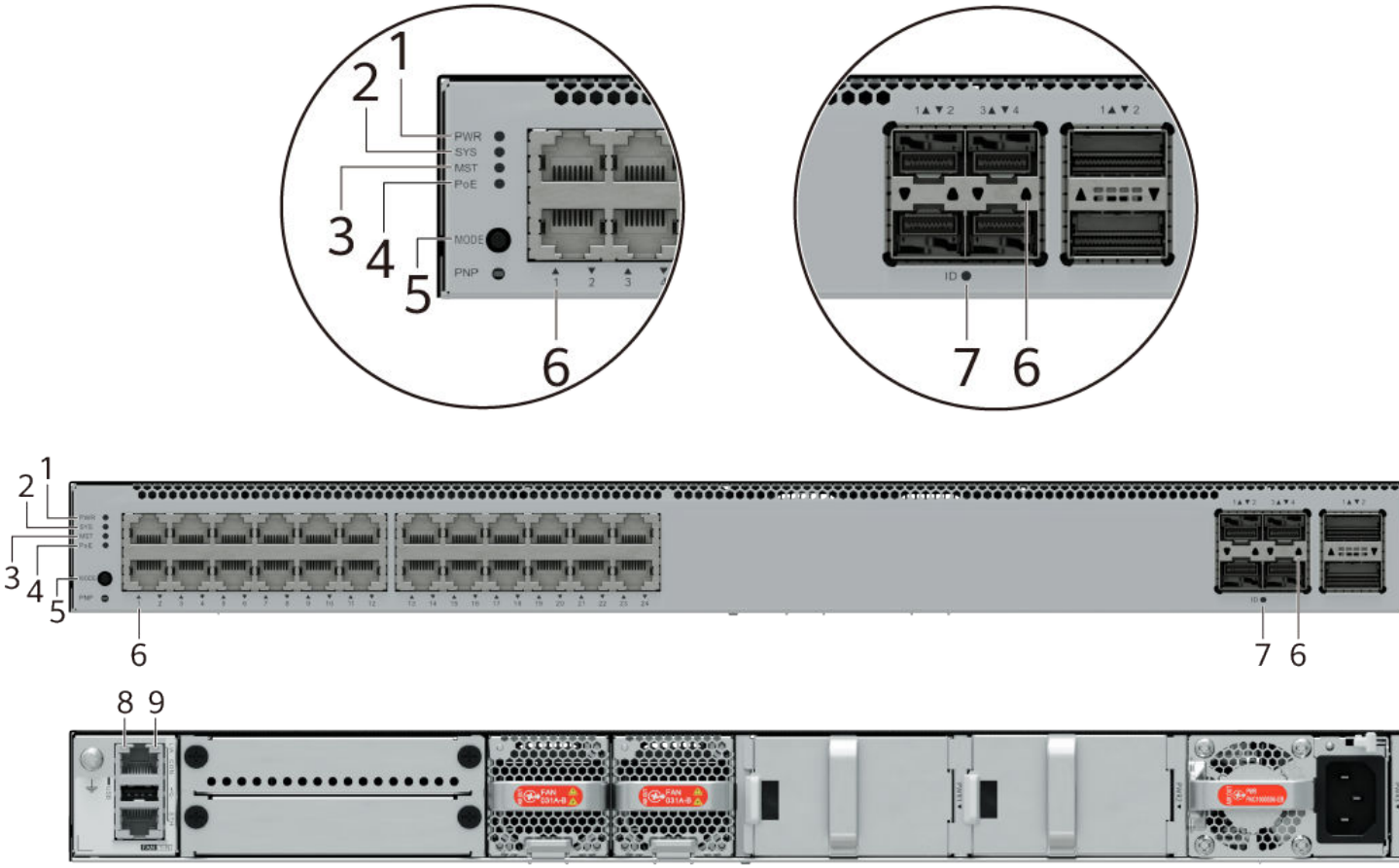

Table 4-867 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.

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No.	Indicator	Name	Color	Status	Description
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.

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No.	Indicator	Name	Color	Status	Description
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-868**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, the indicator fails, or the USB-based deployment fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
9	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-868 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.

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Display Mode	Color	Status	Description
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-869 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	788 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13
1000 W AC (110 V)	–	–	698 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 23 • 802.3bt (60 W per port): 11
1000 W DC	–	–	788 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	–	451 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7
600 W AC (110 V)	–	–	166 W	• 802.3af (15.4 W per port): 10 • 802.3at (30 W per port): 5 • 802.3bt (60 W per port): 2
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1688 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1508 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	1021 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 17
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1328 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 22

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	–	451 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1728 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1591 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1728 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1728 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1728 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24

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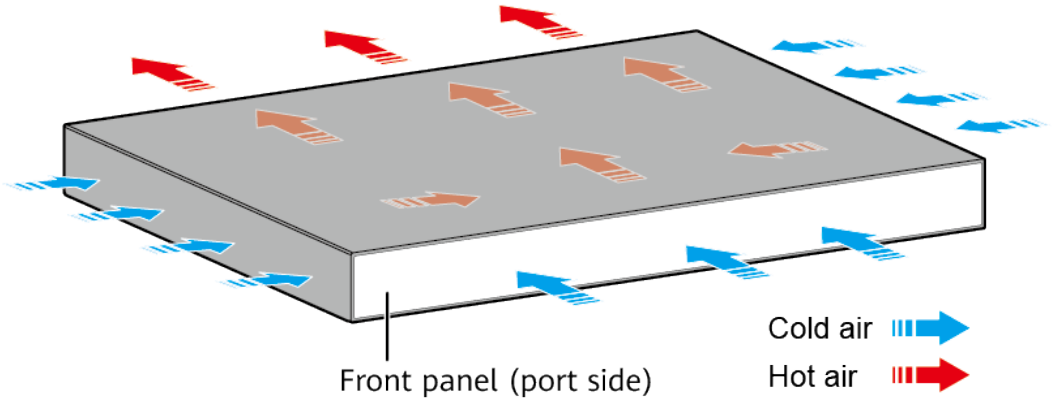
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	736 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-870 Technical specifications of the S5755-H24U4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.13 kg (13.51 lb)
Weight with packaging [kg(lb)]	8.05 kg (17.75 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 91 W (all ports used) • 79 W (2 x 100GE ports not used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 310.50 (all ports used) • 269.56 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 101 W (all ports used) • 89 W (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 1871 W (PoE: 1728 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 341.21 (all ports used) • 300.26 (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 6384.04
Static power consumption [W]	61 W
MTBF [years]	77.4 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 40.7 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.6 S5755-H24U4Y2CZ (98012221-001)

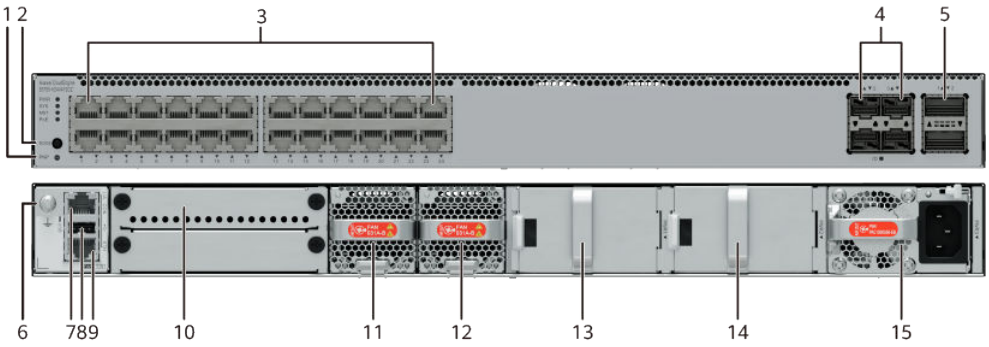
Overview

Table 4-871 Basic information about the S5755-H24U4Y2CZ

Item	Details
Description	S5755-H24U4Y2CZ (24*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	98012221-001
Model	S5755-H24U4Y2CZ
First supported version	V600R023C00

Components

Figure 4-320 S5755-H24U4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10/100/1000BASE-T PoE++ ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-872 Ports on the S5755-H24U4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-321 Indicators on the Switch

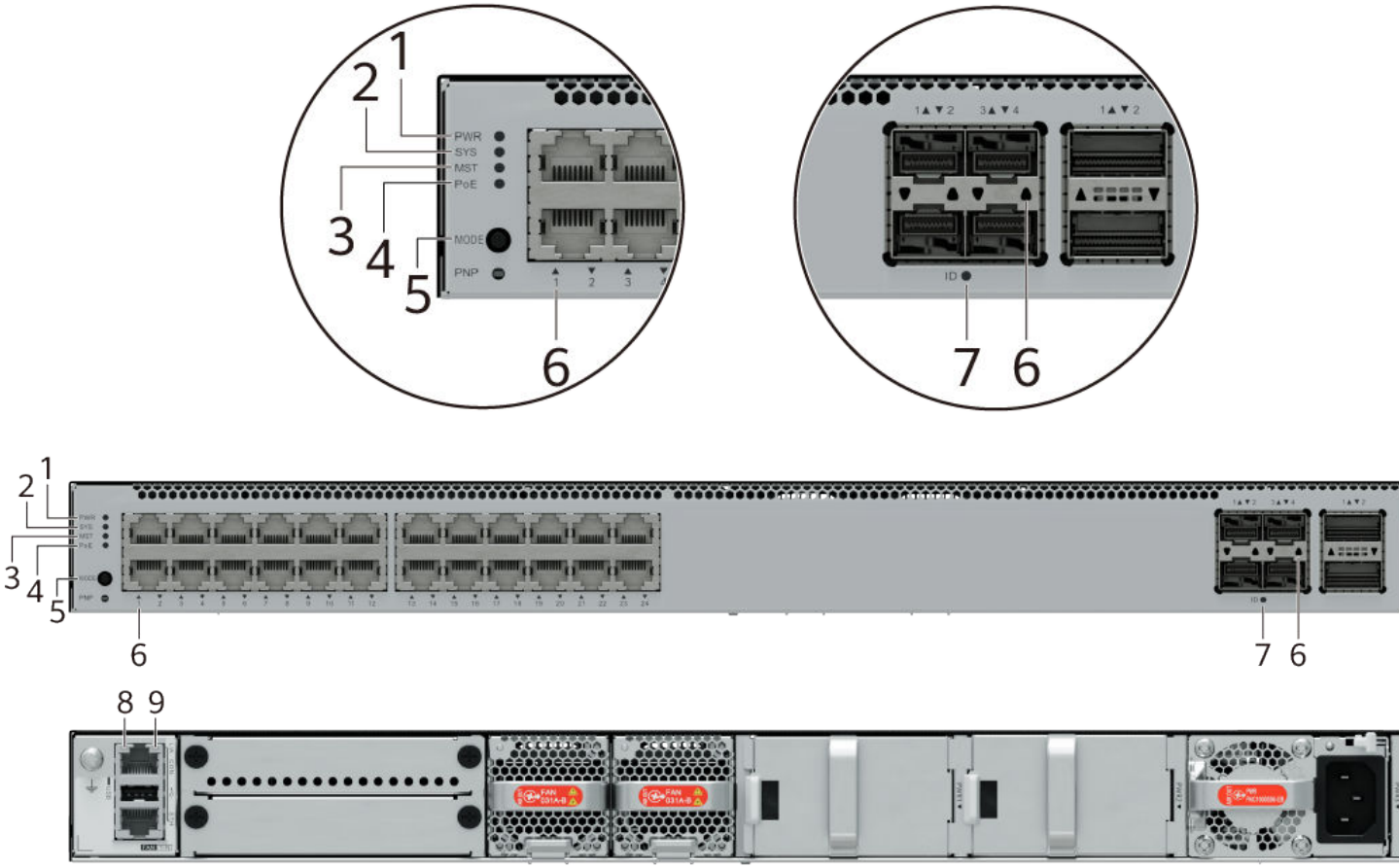

Table 4-873 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.

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No.	Indicator	Name	Color	Status	Description
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.

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No.	Indicator	Name	Color	Status	Description
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-874**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, the indicator fails, or the USB-based deployment fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
9	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-874 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.

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Display Mode	Color	Status	Description
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-875 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	788 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13
1000 W AC (110 V)	–	–	698 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 23 • 802.3bt (60 W per port): 11
1000 W DC	–	–	788 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 13

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	–	451 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7
600 W AC (110 V)	–	–	166 W	• 802.3af (15.4 W per port): 10 • 802.3at (30 W per port): 5 • 802.3bt (60 W per port): 2
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1688 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1508 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	–	1021 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 17
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1328 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 22

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	–	451 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 15 • 802.3bt (60 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1728 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1591 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1728 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1728 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1728 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24

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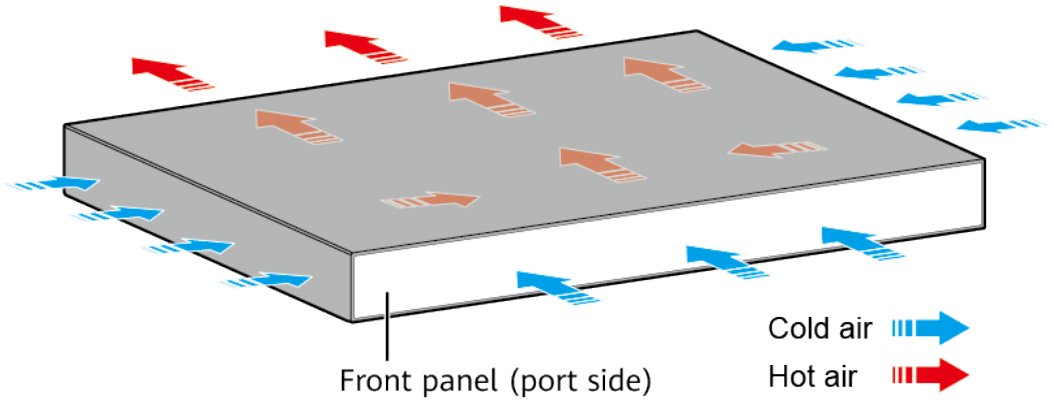
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	736 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-876 Technical specifications of the S5755-H24U4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.13 kg (13.51 lb)
Weight with packaging [kg(lb)]	8.05 kg (17.75 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 91 W (all ports used) • 79 W (2 x 100GE ports not used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 310.50 (all ports used) • 269.56 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 101 W (all ports used) • 89 W (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 1871 W (PoE: 1728 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 341.21 (all ports used) • 300.26 (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 6384.04
Static power consumption [W]	61 W
MTBF [years]	77.4 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 40.7 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.7 S5755-H48T4Y2CZ (98012216)

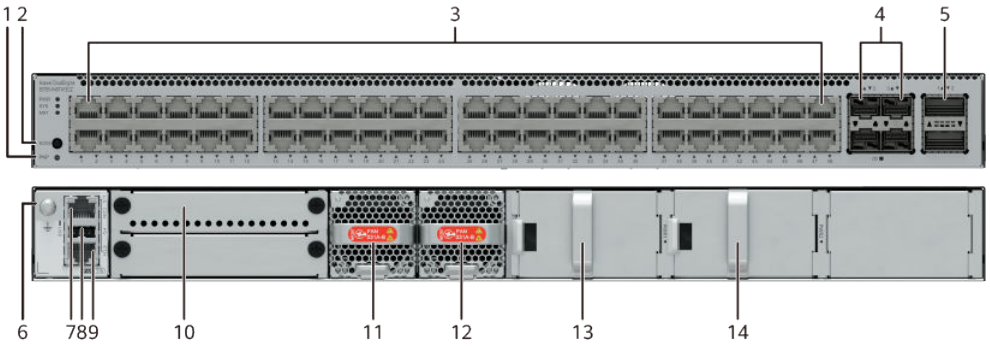
Overview

Table 4-877 Basic information about the S5755-H48T4Y2CZ

Item	Details
Description	S5755-H48T4Y2CZ (48*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, without power module)
Part Number	98012216
Model	S5755-H48T4Y2CZ
First supported version	V600R023C00

Components

Figure 4-322 S5755-H48T4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**

Ports

Table 4-878 Ports on the S5755-H48T4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (V600R024C10 and later**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48T4Y2CZ has similar indicators to those on the S5755-H24U4Y2CZ except that the S5755-H48T4Y2CZ does not have a PoE mode indicator. For details, see the S5755-H24U4Y2CZ.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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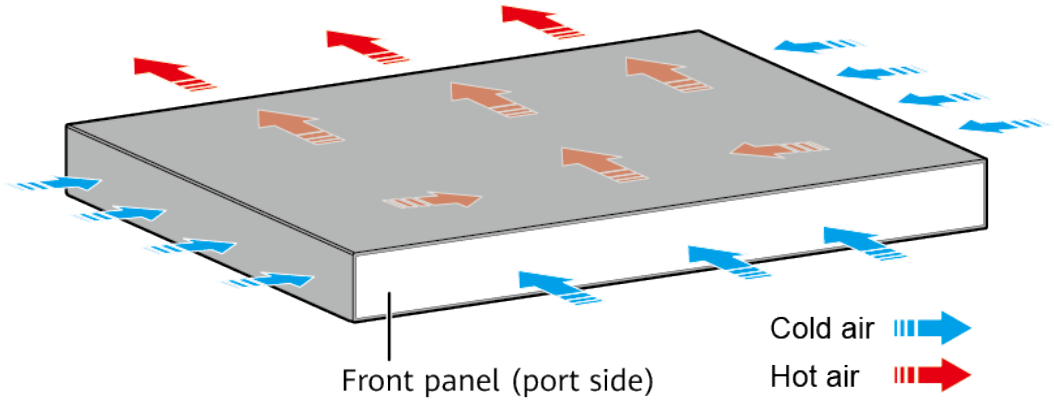

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-879 Technical specifications of the S5755-H48T4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.92 kg (13.05 lb)
Weight with packaging [kg(lb)]	7.83 kg (17.26 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 92 W (all ports used) • 81 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: ● 313.91 (all ports used) ● 276.38 (2x100GE ports not used)
Maximum power consumption [W]	100% traffic under the ATIS standard, dual power modules: ● 99 W (all ports used) ● 88 W (2 x 100GE ports not used)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard, dual power modules: ● 337.80 (all ports used) ● 300.26 (2 x 100GE ports not used)
Static power consumption [W]	57 W
MTBF [years]	82.56 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	48.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	36.1 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.8 S5755-H48T4Y2CZ (98012216-001)

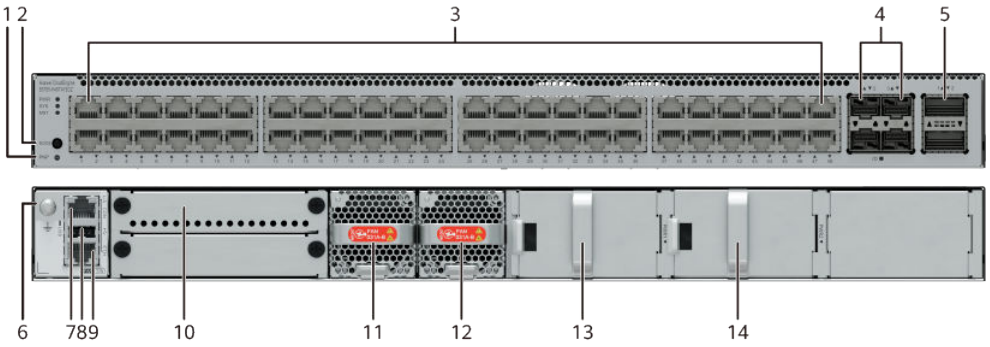
Overview

Table 4-880 Basic information about the S5755-H48T4Y2CZ

Item	Details
Description	S5755-H48T4Y2CZ (48*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, without power module)
Part Number	98012216-001
Model	S5755-H48T4Y2CZ
First supported version	V600R023C00

Components

Figure 4-323 S5755-H48T4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** (available since V600R024C00 version) • **PAC600S12-PB** • **PDC1K2S12-CE**

Ports

Table 4-881 Ports on the S5755-H48T4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48T4Y2CZ has similar indicators to those on the S5755-H24U4Y2CZ except that the S5755-H48T4Y2CZ does not have a PoE mode indicator. For details, see the S5755-H24U4Y2CZ.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

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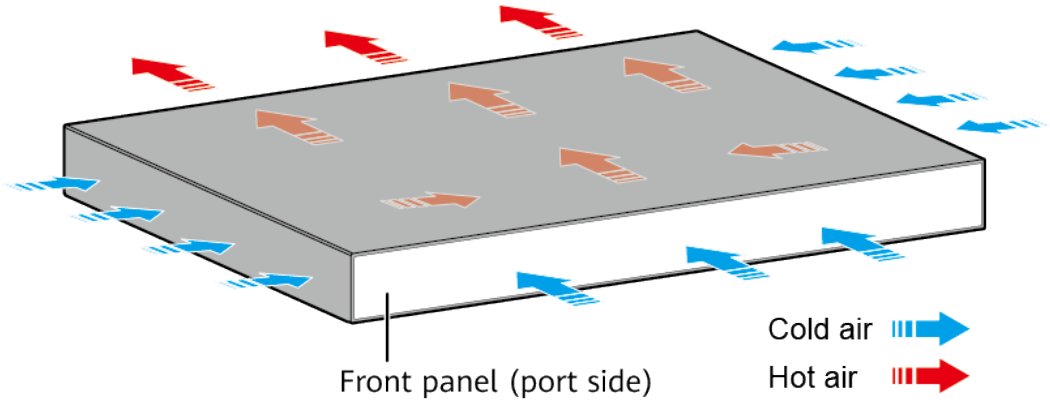
Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-882 Technical specifications of the S5755-H48T4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.92 kg (13.05 lb)
Weight with packaging [kg(lb)]	7.83 kg (17.26 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 92 W (all ports used) • 81 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: ● 313.91 (all ports used) ● 276.38 (2x100GE ports not used)
Maximum power consumption [W]	100% traffic under the ATIS standard, dual power supplies: ● 99 W (all ports used) ● 88 W (2 x 100GE ports not used)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard, dual power supplies: ● 337.80 (all ports used) ● 300.26 (2 x 100GE ports not used)
Static power consumption [W]	57 W
MTBF [years]	82.56 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	48.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	36.1 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.9 S5755-H48T4Y2CZ (98012216-002)

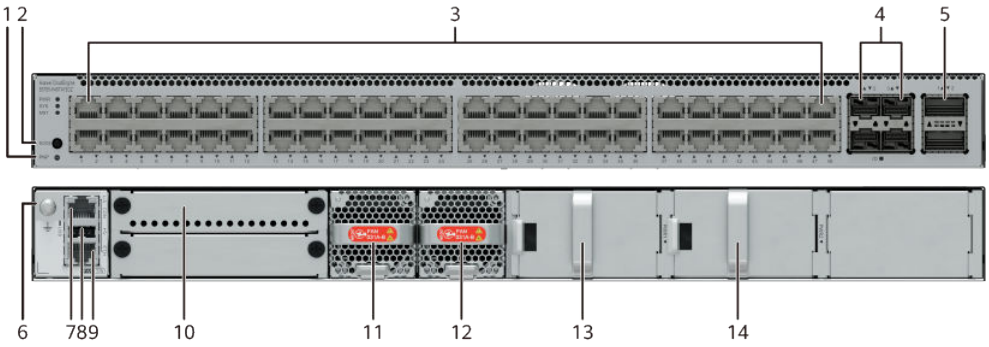
Overview

Table 4-883 Basic information about the S5755-H48T4Y2CZ

Item	Details
Description	S5755-H48T4Y2CZ (48*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, without power module)
Part Number	98012216-002
Model	S5755-H48T4Y2CZ
First supported version	V600R024C10

Components

Figure 4-324 S5755-H48T4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** Applicable card: **HSIC-X08S000** **HSIC-Y08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB** • **PDC1K2S12-CE**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** • **PAC600S12-PB** • **PDC1K2S12-CE**

Ports

Table 4-884 Ports on the S5755-H48T4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing. By default, ZTP deployment is supported at the GE/10GE rate.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48T4Y2CZ has similar indicators to those on the S5755-H24U4Y2CZ except that the S5755-H48T4Y2CZ does not have a PoE mode indicator. For details, see the S5755-H24U4Y2CZ.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

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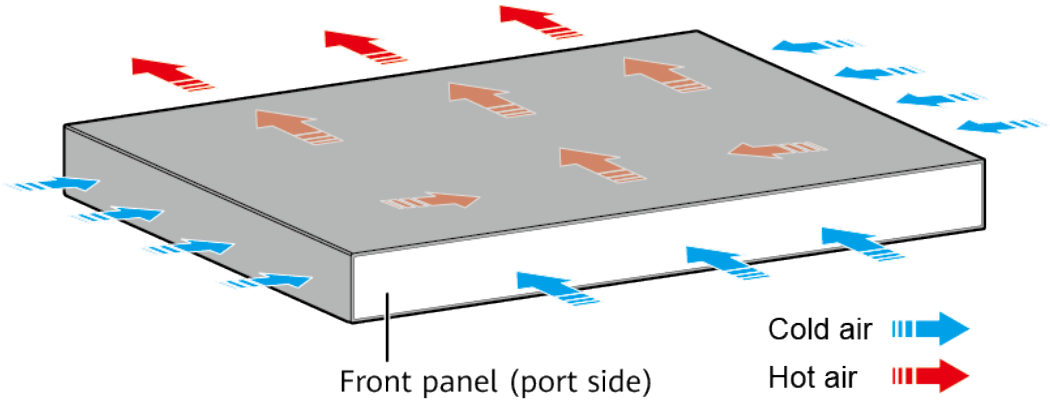
Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-885 Technical specifications of the S5755-H48T4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.92 kg (13.05 lb)
Weight with packaging [kg(lb)]	7.83 kg (17.26 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 92 W (all ports used) • 81 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: ● 313.91 (all ports used) ● 276.38 (2x100GE ports not used)
Maximum power consumption [W]	100% traffic under the ATIS standard, dual power modules: ● 99 W (all ports used) ● 88 W (2 x 100GE ports not used)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard, dual power modules: ● 337.80 (all ports used) ● 300.26 (2 x 100GE ports not used)
Static power consumption [W]	57 W
MTBF [years]	82.56 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	48.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	36.1 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.10 S5755-H48T4Y2CZ-B

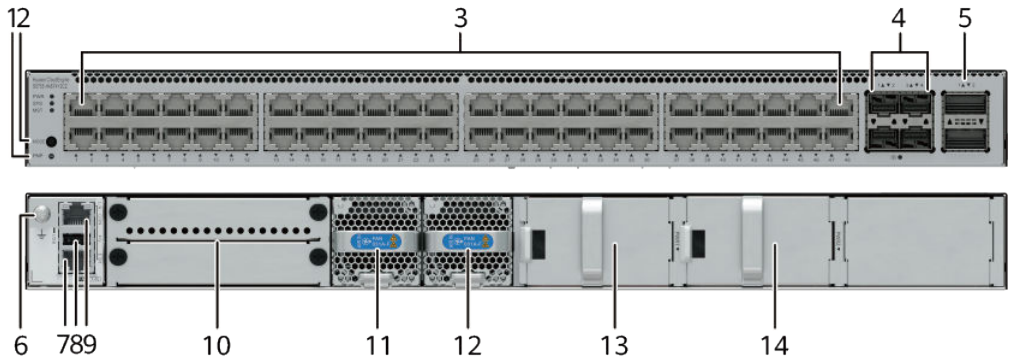
Overview

Table 4-886 Basic information about the S5755-H48T4Y2CZ-B

Item	Details
Description	S5755-H48T4Y2CZ-B (48*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, without power module, port-side exhaust)
Part Number	98012438
Model	S5755-H48T4Y2CZ-B
First supported version	V600R024C00

Components

Figure 4-325 S5755-H48T4Y2CZ-B appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** This card slot is reserved.
11	Fan module slot 1 **NOTE** Applicable fan module: **7.3 FAN-031A-F (Fan Box (F, Fan Panel Side Intake))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.3 FAN-031A-F (Fan Box (F, Fan Panel Side Intake))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN**

Ports

Table 4-887 Ports on the S5755-H48T4Y2CZ-B

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules (the maximum transmission distance cannot exceed 10 km and the operating temperature cannot exceed 40°C)** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48T4Y2CZ-B has similar indicators to those on the S5755-H24U4Y2CZ except that the S5755-H48T4Y2CZ-B does not have a PoE mode indicator. For details, see the S5755-H24U4Y2CZ.

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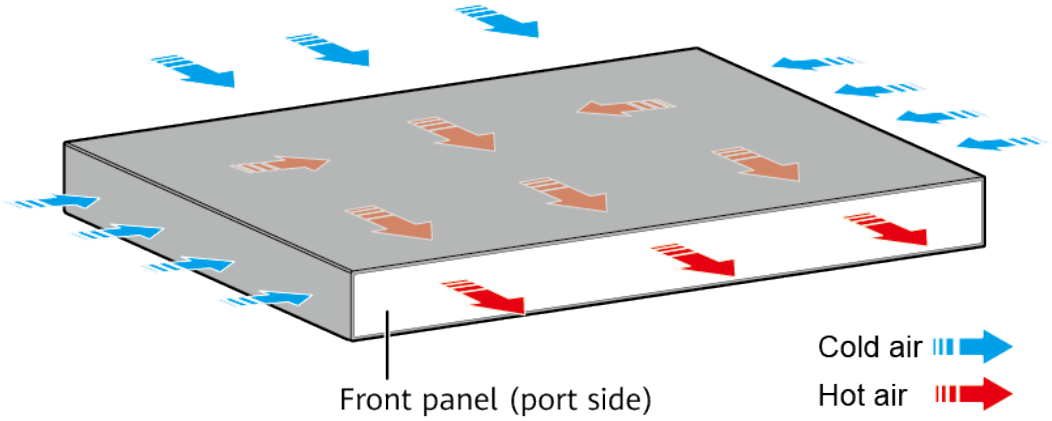
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with fans and power modules without fans cannot be installed on the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and rear sides, and exhausts from the front panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-888 Technical specifications of the S5755-H48T4Y2CZ-B

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.92 kg (13.05 lb)

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Item	Specification
Weight with packaging [kg(lb)]	7.83 kg (17.26 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: ● 92 W (all ports used) ● 81 W (2 x 100GE ports not used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: ● 313.91 (all ports used) ● 276.38 (2x100GE ports not used)
Maximum power consumption [W]	100% traffic under the ATIS standard, dual power supplies: ● 99 W (all ports used) ● 88 W (2 x 100GE ports not used)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard, dual power supplies: ● 337.80 (all ports used) ● 300.26 (2 x 100GE ports not used)
Static power consumption [W]	57 W
MTBF [years]	82.56 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	48.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	36.1 dBA
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	● AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz ● High-voltage DC input: 240 V DC ● DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air flows in from the left, rear, and right and exhausts from the front.
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.18.11 S5755-H48P4Y2CZ (98012217)

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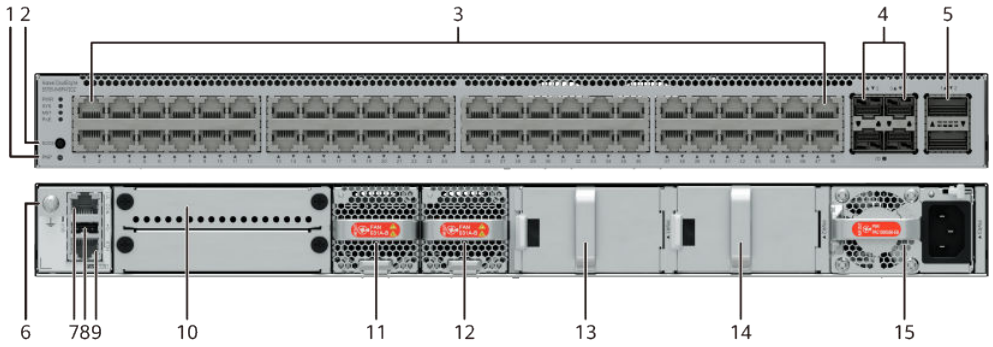
Overview

Table 4-889 Basic information about the S5755-H48P4Y2CZ

Item	Details
Description	S5755-H48P4Y2CZ (48*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, PoE+, without power module)
Part Number	98012217
Model	S5755-H48P4Y2CZ
First supported version	V600R023C00

Components

Figure 4-326 S5755-H48P4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T PoE + ports	4	Four 1GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.

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7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-890 Ports on the S5755-H48P4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	A 10/100/1000BASE-T PoE+ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (V600R024C10 and later**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48P4Y2CZ has similar indicators to those on the S5755-H24U4Y2CZ. For details, see the S5755-H24U4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-891 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	783 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	692 W	• 802.3af (15.4 W per port): 44 • 802.3at (30 W per port): 23
1000 W DC	–	–	783 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26
600 W AC (220 V)	–	–	447 W	• 802.3af (15.4 W per port): 28 • 802.3at (30 W per port): 14
600 W AC (110 V)	–	–	162 W	• 802.3af (15.4 W per port): 10 • 802.3at (30 W per port): 5
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1503 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	–	1017 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 33
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1323 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 44
600 W AC (110 V)	600 W AC (110 V)	–	447 W	• 802.3af (15.4 W per port): 29 • 802.3at (30 W per port): 14

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1587 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	732 W	• 802.3af (15.4 W per port): 47 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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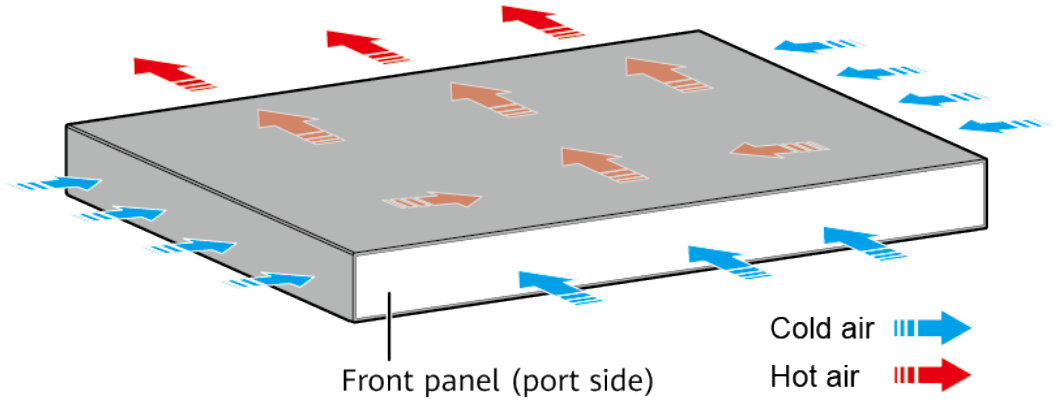

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-892 Technical specifications of the S5755-H48P4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.3 kg (13.89 lb)
Weight with packaging [kg(lb)]	8.22 kg (18.12 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 105 W (all ports used) • 92 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 358.27 (all ports used) • 313.91 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 112 W (all ports used) • 100 W (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 1829 W (PoE: 1680 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 382.16 (all ports used) • 341.21 (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 6240.73
Static power consumption [W]	64 W
MTBF [years]	63.32 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 40.7 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.12 S5755-H48P4Y2CZ (98012217-001)

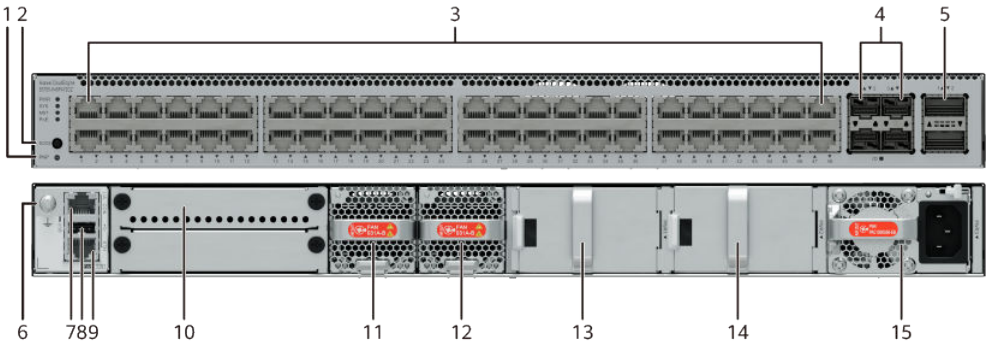
Overview

Table 4-893 Basic information about the S5755-H48P4Y2CZ

Item	Details
Description	S5755-H48P4Y2CZ (48*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, PoE+, without power module)
Part Number	98012217-001
Model	S5755-H48P4Y2CZ
First supported version	V600R023C00

Components

Figure 4-327 S5755-H48P4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T PoE+ ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-894 Ports on the S5755-H48P4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	A 10/100/1000BASE-T PoE+ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48P4Y2CZ has similar indicators to those on the S5755-H24U4Y2CZ. For details, see the S5755-H24U4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-895 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	783 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26
1000 W AC (110 V)	–	–	692 W	• 802.3af (15.4 W per port): 44 • 802.3at (30 W per port): 23
1000 W DC	–	–	783 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26
600 W AC (220 V)	–	–	447 W	• 802.3af (15.4 W per port): 28 • 802.3at (30 W per port): 14
600 W AC (110 V)	–	–	162 W	• 802.3af (15.4 W per port): 10 • 802.3at (30 W per port): 5
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1503 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	–	1017 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 33
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1323 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 44

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	–	447 W	• 802.3af (15.4 W per port): 29 • 802.3at (30 W per port): 14
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1587 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	732 W	• 802.3af (15.4 W per port): 47 • 802.3at (30 W per port): 24

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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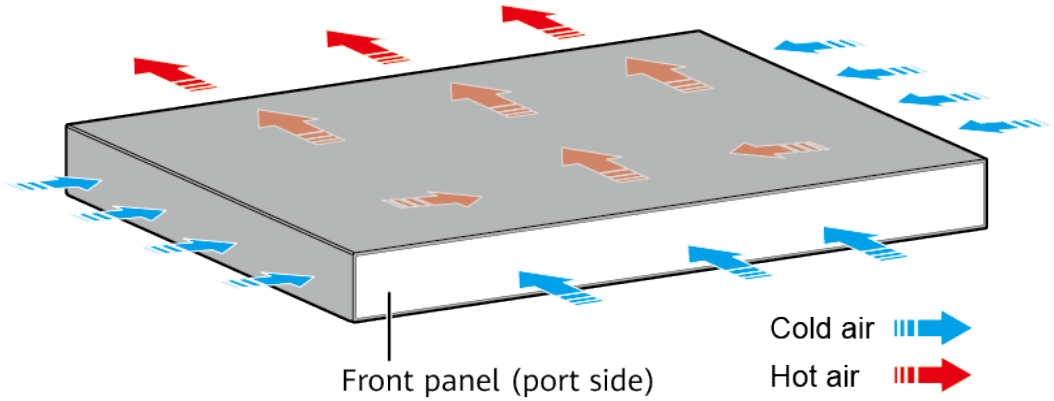

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-896 Technical specifications of the S5755-H48P4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.3 kg (13.89 lb)
Weight with packaging [kg(lb)]	8.22 kg (18.12 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 105 W (all ports used) • 92 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 358.27 (all ports used) • 313.91 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 112 W (all ports used) • 100 W (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 1829 W (PoE: 1680 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 382.16 (all ports used) • 341.21 (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 6240.73
Static power consumption [W]	64 W
MTBF [years]	63.32 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 40.7 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.13 S5755-H48U4Y2CZ (98012218)

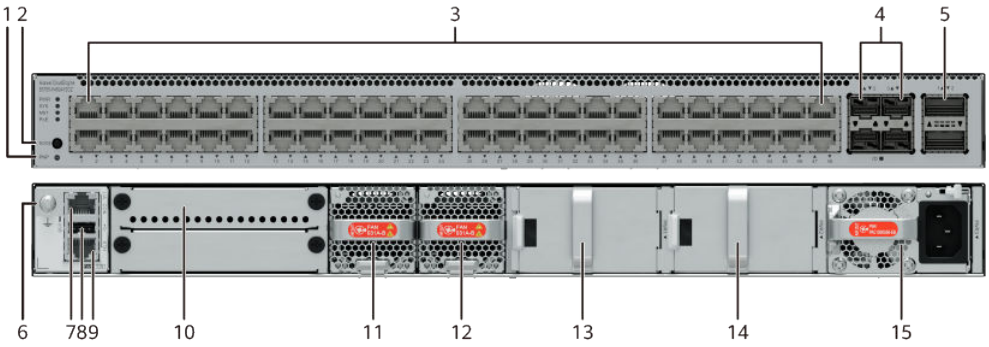
Overview

Table 4-897 Basic information about the S5755-H48U4Y2CZ

Item	Details
Description	S5755-H48U4Y2CZ (48*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	98012218
Model	S5755-H48U4Y2CZ
First supported version	V600R023C00

Components

Figure 4-328 S5755-H48U4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T PoE ++ ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-898 Ports on the S5755-H48U4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (V600R024C10 and later**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48U4Y2CZ has similar indicators to those on the S5755-H24U4Y2CZ. For details, see the S5755-H24U4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-899 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	783 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26 • 802.3bt (60 W per port): 13

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	693 W	• 802.3af (15.4 W per port): 45 • 802.3at (30 W per port): 23 • 802.3bt (60 W per port): 11
1000 W DC	–	–	783 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26 • 802.3bt (60 W per port): 13
600 W AC (220 V)	–	–	447 W	• 802.3af (15.4 W per port): 29 • 802.3at (30 W per port): 14 • 802.3bt (60 W per port): 7
600 W AC (110 V)	–	–	162 W	• 802.3af (15.4 W per port): 10 • 802.3at (30 W per port): 5 • 802.3bt (60 W per port): 2
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1683 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1503 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	–	1017 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 33 • 802.3bt (60 W per port): 16
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1323 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 44 • 802.3bt (60 W per port): 22
600 W AC (110 V)	600 W AC (110 V)	–	447 W	• 802.3af (15.4 W per port): 29 • 802.3at (30 W per port): 14 • 802.3bt (60 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2870 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 47
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1587 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 26
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2223 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 37

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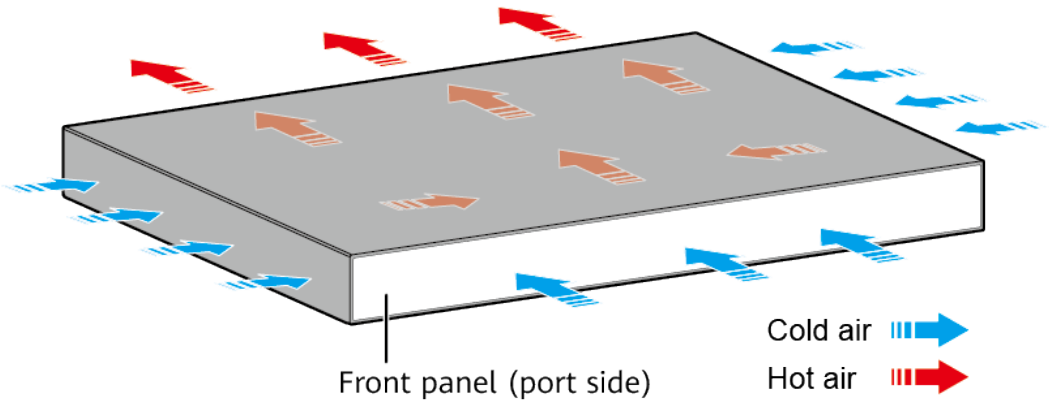
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1863 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 31
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2313 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 38
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	732 W	• 802.3af (15.4 W per port): 47 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-900 Technical specifications of the S5755-H48U4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.32 kg (13.93 lb)
Weight with packaging [kg(lb)]	8.22 kg (18.12 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 105 W (all ports used) • 92 W (2 x 100GE ports not used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 358.27 (all ports used) • 313.91 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 113 W (all ports used) • 100 W (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 3030 W (PoE: 2870 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 385.57 (all ports used) • 341.21 (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 10338.66
Static power consumption [W]	70 W
MTBF [years]	62.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 40.7 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.14 S5755-H48U4Y2CZ (98012218-001)

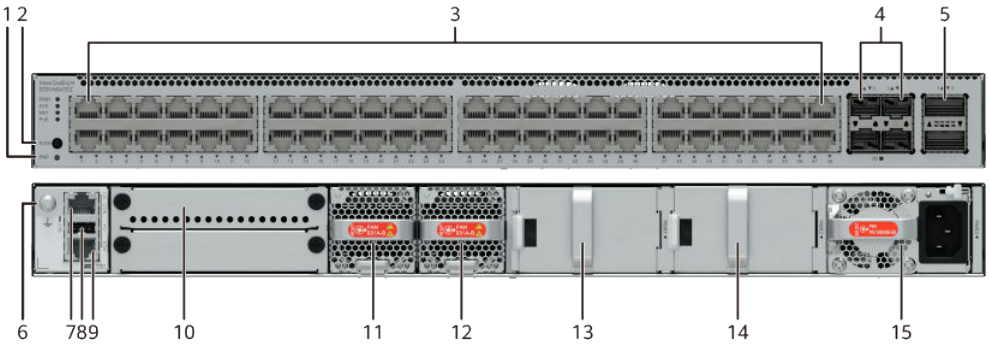
Overview

Table 4-901 Basic information about the S5755-H48U4Y2CZ

Item	Details
Description	S5755-H48U4Y2CZ (48*10/100/1000BASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	98012218-001
Model	S5755-H48U4Y2CZ
First supported version	V600R023C00

Components

Figure 4-329 S5755-H48U4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10/100/1000BASE-T PoE ++ ports	4	Four 1GE/10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-902 Ports on the S5755-H48U4Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48U4Y2CZ has similar indicators to those on the S5755-H24U4Y2CZ. For details, see the S5755-H24U4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-903 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	783 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26 • 802.3bt (60 W per port): 13
1000 W AC (110 V)	–	–	693 W	• 802.3af (15.4 W per port): 45 • 802.3at (30 W per port): 23 • 802.3bt (60 W per port): 11
1000 W DC	–	–	783 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 26 • 802.3bt (60 W per port): 13
600 W AC (220 V)	–	–	447 W	• 802.3af (15.4 W per port): 29 • 802.3at (30 W per port): 14 • 802.3bt (60 W per port): 7
600 W AC (110 V)	–	–	162 W	• 802.3af (15.4 W per port): 10 • 802.3at (30 W per port): 5 • 802.3bt (60 W per port): 2
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1683 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1503 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25
600 W AC (220 V)	600 W AC (220 V)	–	1017 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 33 • 802.3bt (60 W per port): 16
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1323 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 44 • 802.3bt (60 W per port): 22
600 W AC (110 V)	600 W AC (110 V)	–	447 W	• 802.3af (15.4 W per port): 29 • 802.3at (30 W per port): 14 • 802.3bt (60 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2870 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 47
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1587 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 26

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2223 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 37
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1863 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 31
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2313 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 38
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	732 W	• 802.3af (15.4 W per port): 47 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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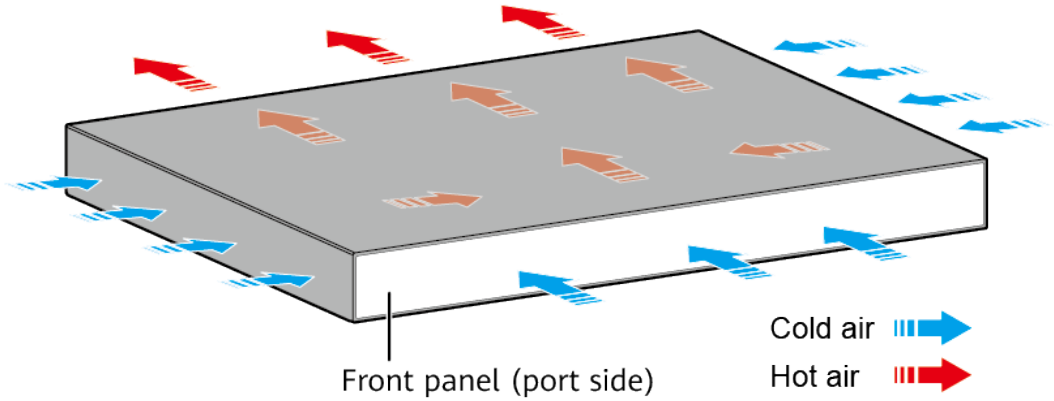

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-904 Technical specifications of the S5755-H48U4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.32 kg (13.93 lb)
Weight with packaging [kg(lb)]	8.22 kg (18.12 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 105 W (all ports used) • 92 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 358.27 (all ports used) • 313.91 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 113 W (all ports used) • 100 W (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 3030 W (PoE: 2870 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 385.57 (all ports used) • 341.21 (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 10338.66
Static power consumption [W]	70 W
MTBF [years]	62.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 40.7 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.15 S5755-H24N4Y-A

Overview

Table 4-905 Basic information about the S5755-H24N4Y-A

Item	Details
Description	S5755-H24N4Y-A (24*10/100/1000/2.5GBASE-T ports, 4*25GE SFP28 ports, built-in AC power, front access)
Part Number	02355NEC
Model	S5755-H24N4Y-A
First supported version	V600R023C00

Components

Figure 4-330 S5755-H24N4Y-A appearance

1	Twenty-four 10M/100M/1000M/2.5GE BASE-T ports (multi-GE ports) **NOTE** Multi-GE ports do not support 10 Mbit/s in V600R023C00 version.	2	Four 1GE/10GE/25GE SFP28 optical ports
3	One USB console port **NOTE** By default, the device is delivered with a USB-RJ45 (MP8) transfer cable. You need to configure an RJ45-DB9 console cable (02311CKR) to connect the cable to the maintenance terminal.	4	AC socket **NOTE** It is used with an **AC power cable**.

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5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.

Ports

Table 4-906 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)	
	10M/100M/1000M	2.5GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

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Table 4-907 Ports on the S5755-H24N4Y-A

Port	Connector Type	Description	Available Components
10M/100M/1G/ 2.5GE BASE-T port (multi-GE port)	RJ45	A 10M/100M/1G/ 2.5GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s. Multi-GE ports do not support 10 Mbit/s in V600R023C00 version.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 2 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	• **0.5 m and 1.5 m SFP28 dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
Console port	USB	The console port is connected to a console for on-site configuration.	USB-RJ45(MP8) adapter cable

Indicators and Buttons

Figure 4-331 Indicators on the switch

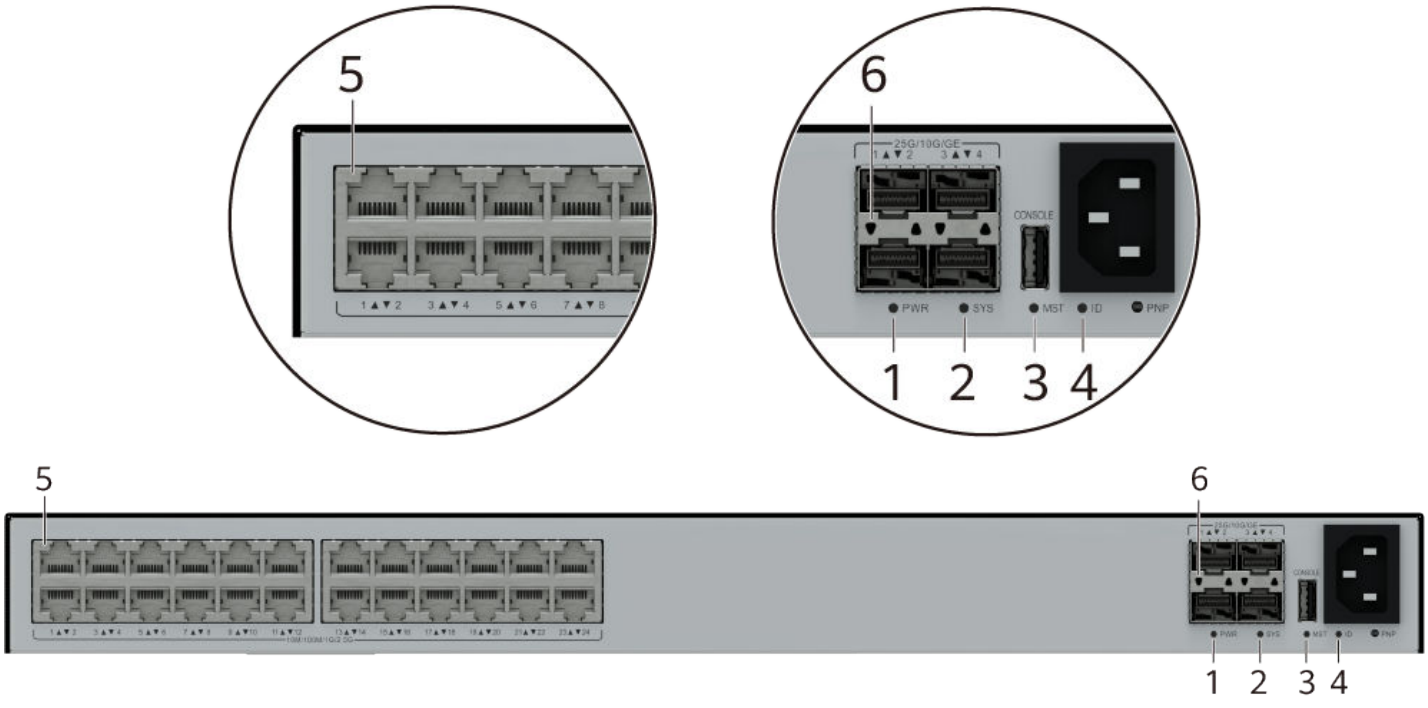

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Table 4-908 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
4	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
5	-	Electrical service port indicator (one indicator for each port) **NOTE** Each port in the upper row of electrical ports has two indicators. The indicator in the upper left corner is the indicator of the port, and the indicator in the upper right corner is the indicator of the electrical port under the port.			Meanings of service port indicators vary in different modes. For details, see **Table 4-909**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.

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No.	Indicator	Name	Color	Status	Description
6	-	Optical service port indicator (one indicator for each port) **NOTE** Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			

Table 4-909 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10M/100M/1000M/2.5GE BASE-T port: The port is operating at 10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s.
	Green	Blinking	• 10M/100M/1000M/2.5GE BASE-T port: The port is operating at 2.5 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

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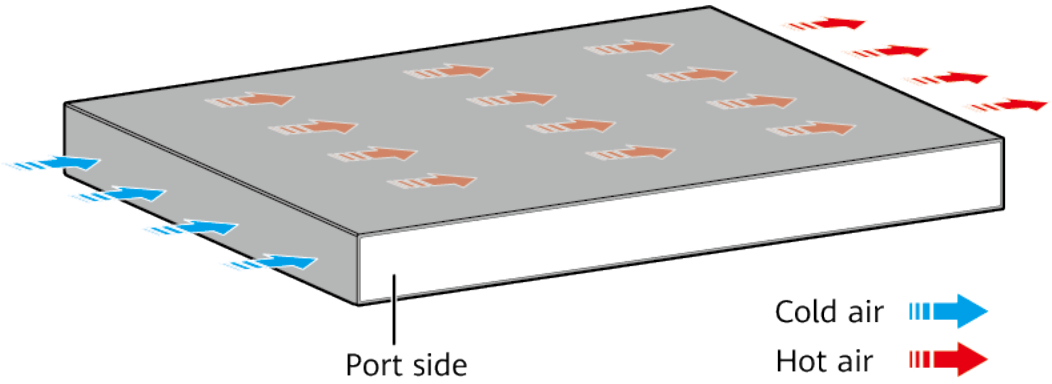
Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side, and exhausts from the right side.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-910 Technical specifications of the S5755-H24N4Y-A

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 236.0 mm (1.72 in. x 17.4 in. x 9.29 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	3.83 kg (8.44 lb)
Weight with packaging [kg(lb)]	4.45 kg (9.81 lb)
Typical power consumption [W]	30% traffic under the ATIS standard: 65 W
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard: 221.79

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Item	Specification
Maximum power consumption [W]	100% traffic under the ATIS standard: 69 W
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard: 235.43
Static power consumption [W]	45 W
MTBF [years]	51.06 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47.2 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35.2 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	4 GB
Flash memory	Physical space: 2 GB

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Item	Specification
Console port	USB
Eth Management port	RJ45
USB	Not supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.18.16 S5755-H48N4Y-A

Overview

Table 4-911 Basic information about the S5755-H48N4Y-A

Item	Details
Description	S5755-H48N4Y-A (48*10/100/1000/2.5GBASE-T ports, 4*25GE SFP28 ports, built-in AC power, front access)
Part Number	02355NEE
Model	S5755-H48N4Y-A
First supported version	V600R023C00

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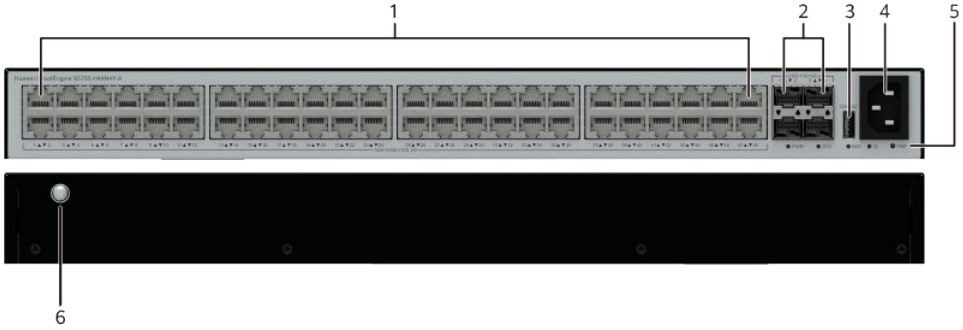
Components

Figure 4-332 S5755-H48N4Y-A appearance



1	Forty-eight 10M/100M/1000M/2.5GE BASE-T ports (multi-GE ports) **NOTE** Multi-GE ports do not support 10 Mbit/s in V600R023C00 version.	2	Four 1GE/10GE/25GE SFP28 optical ports
3	One USB console port **NOTE** By default, the device is delivered with a USB-RJ45 (MP8) transfer cable. You need to configure an RJ45-DB9 console cable (02311CKR) to connect the cable to the maintenance terminal.	4	AC socket **NOTE** It is used with an **AC power cable**.
5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.

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Ports

Table 4-912 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)	
	10M/100M/1000M	2.5GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

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Table 4-913 Ports on the S5755-H48N4Y-A

Port	Connector Type	Description	Available Components
10M/100M/1G/2.5GE BASE-T port (multi-GE port)	RJ45	A 10M/100M/1G/2.5GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s. Multi-GE ports do not support 10 Mbit/s in V600R023C00 version.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 2 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	• **0.5 m and 1.5 m SFP28 dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
Console port	USB	The console port is connected to a console for on-site configuration.	USB-RJ45(MP8) adapter cable

Indicators and Buttons

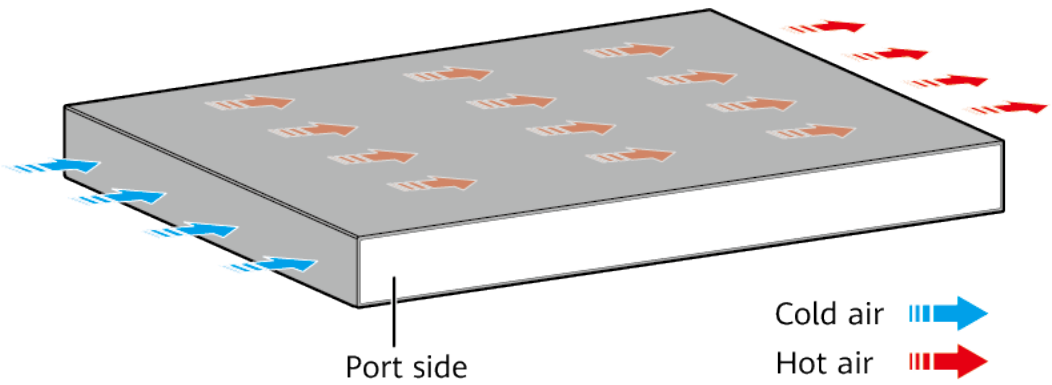
The S5755-H48N4Y-A has similar indicators to those on the S5755-H24N4Y-A. For details, see the S5755-H24N4Y-A.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side, and exhausts from the right side.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-914 Technical specifications of the S5755-H48N4Y-A

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 220.0 mm (1.72 in. x 17.4 in. x 8.66 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 236.0 mm (1.72 in. x 17.4 in. x 9.29 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	4.09 kg (9.02 lb)
Weight with packaging [kg(lb)]	4.71 kg (10.38 lb)
Typical power consumption [W]	30% traffic under the ATIS standard: 101 W
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard: 313.91
Maximum power consumption [W]	100% traffic under the ATIS standard: 105 W
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard: 358.27
Static power consumption [W]	59 W
MTBF [years]	45.5 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	47.2 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35.2 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2

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Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km.
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz

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Item	Specification
Input voltage range [V]	AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz
Maximum input current [A]	3 A
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	USB
Eth Management port	RJ45
USB	Not supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	Differential mode: ±6 kV; common mode: ±6 kV
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and air exhaust from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.18.17 S5755-H24UN4Y2CZ

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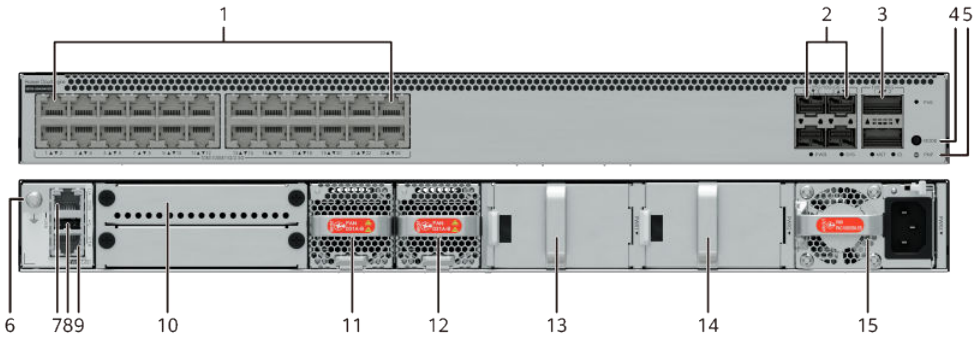
Overview

Table 4-915 Basic information about the S5755-H24UN4Y2CZ

Item	Details
Description	S5755-H24UN4Y2CZ (24*10/100/1000/2.5GBASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	02355NEG
Model	S5755-H24UN4Y2CZ
First supported version	V600R023C00

Components

Figure 4-333 S5755-H24UN4Y2CZ appearance



1	Twenty-four 10M/100M/1000M/2.5GE BASE-T PoE++ ports (multi-GE ports) **NOTE** Multi-GE ports do not support 10 Mbit/s in V600R023C00 version.	2	Four 1GE/10GE/25GE SFP28 optical ports
3	Two 40GE/100GE QSFP28 optical ports	4	One MODE button

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5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-916 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)	
	10M/100M/1000M	2.5GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

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Table 4-917 Ports on the S5755-H24UN4Y2CZ

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE BASE-T PoE++ port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s. Multi-GE ports do not support 10 Mbit/s in V600R023C00 version. The port supports the PoE function.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 2 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	• **0.5 m and 1.5 m SFP28 dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-334 Indicators on the Switch

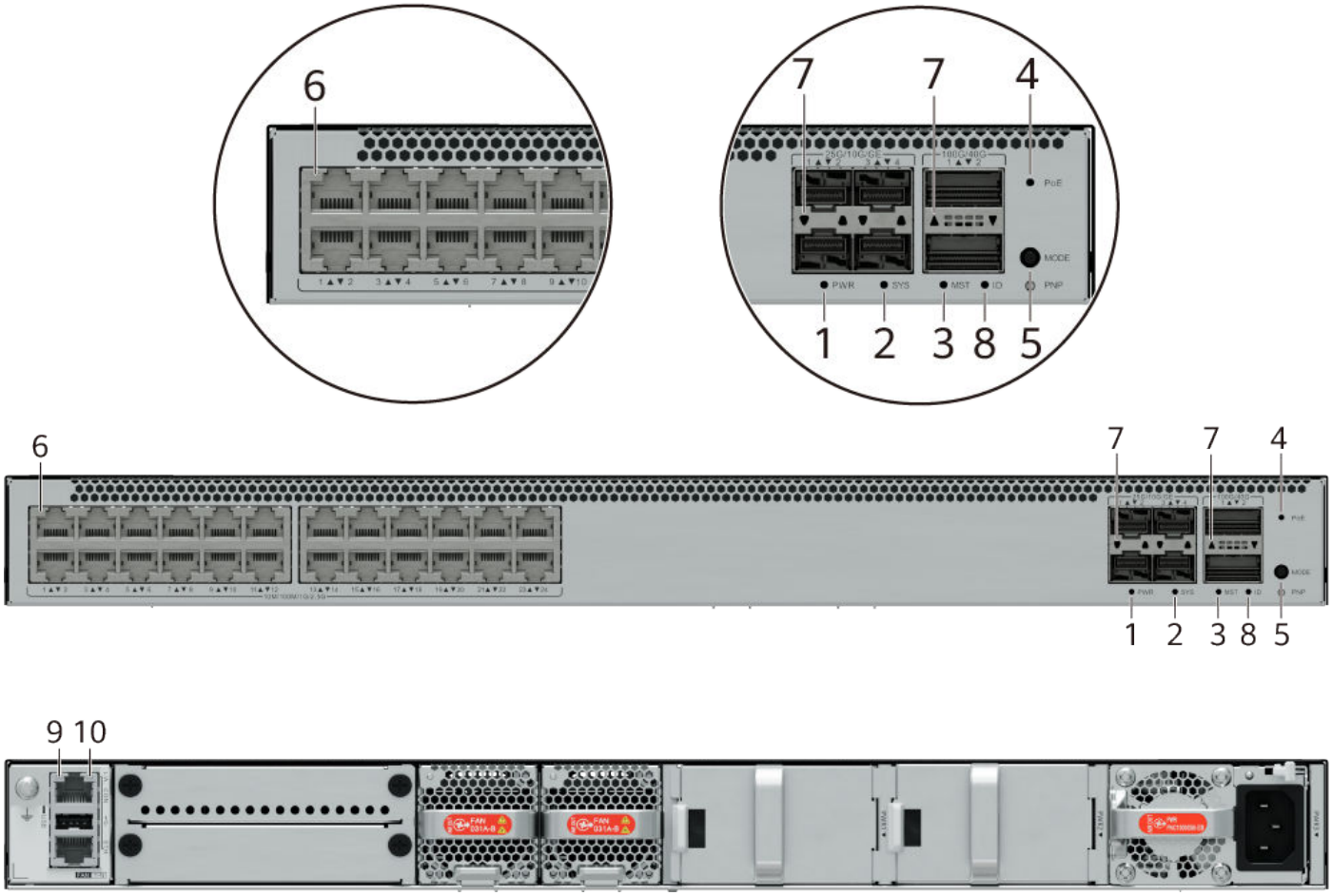

Table 4-918 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.

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No.	Indicator	Name	Color	Status	Description
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.

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No.	Indicator	Name	Color	Status	Description
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Electrical service port indicator (one indicator for each port)	Each port in the upper row of electrical ports has two indicators. The indicator in the upper left corner is the indicator of the port, and the indicator in the upper right corner is the indicator of the electrical port under the port.		Meanings of service port indicators vary in different modes. For details, see **Table 4-919**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, the indicator fails, or the USB-based deployment fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	USB-based deployment is in progress.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-919 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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Display Mode	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10M/100M/1000M/2.5GE BASE-T port: The port is operating at 10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• 10M/100M/1000M/2.5GE BASE-T port: The port is operating at 2.5 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-920 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	765 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	–	675 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7
1000 W DC	–	–	765 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
600 W AC (220 V)	–	–	428 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 14 • 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 4
600 W AC (110 V)	–	–	143 W	• 802.3af (15.4 W per port): 9 • 802.3at (30 W per port): 4 • 802.3bt (60 W per port): 2 • 802.3bt (90 W per port): 1

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1665 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1485 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	600 W AC (220 V)	–	998 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 16 • 802.3bt (90 W per port): 11
600 W AC (110 V)	600 W AC (110 V)	–	428 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 14 • 802.3bt (60 W per port): 7 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1305 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1568 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2205 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1845 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 20
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24

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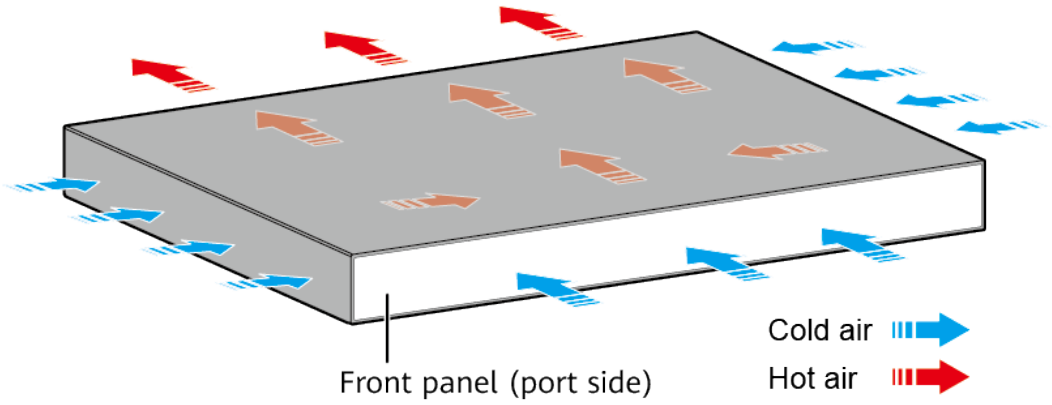
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	713 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 23 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-921 Technical specifications of the S5755-H24UN4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.53 kg (14.4 lb)
Weight with packaging [kg(lb)]	9.61 kg (21.19 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 109 W (all ports used) • 99 W (2 x 100GE ports not used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 371.92 (all ports used) • 337.80 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 120 W (all ports used) • 110 W (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 2435 W (PoE: 2268 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 409.45 (all ports used) • 375.33 (2 x 100GE ports not used) • PoE full load, three 1000 W power modules: 8308.46
Static power consumption [W]	71 W
MTBF [years]	71.48 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.90 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 40.9 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.18 S5755-H48UN4Y2CZ

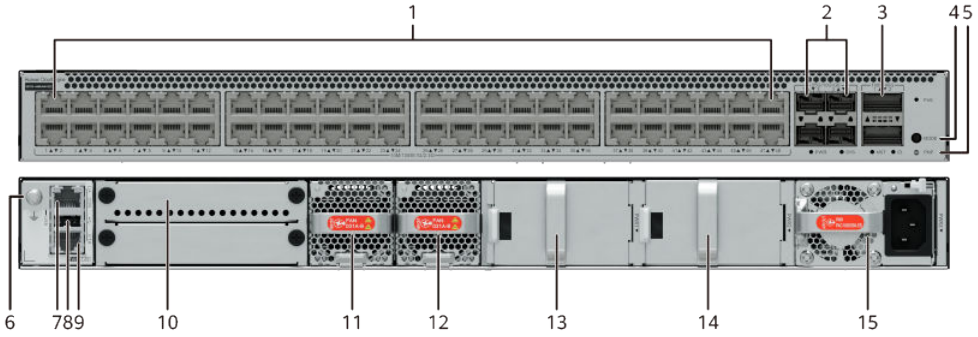
Overview

Table 4-922 Basic information about the S5755-H48UN4Y2CZ

Item	Details
Description	S5755-H48UN4Y2CZ (48*10/100/1000/2.5GBASE-T ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	02355NEH
Model	S5755-H48UN4Y2CZ
First supported version	V600R023C00

Components

Figure 4-335 S5755-H48UN4Y2CZ appearance



1	Forty-eight 10M/100M/1000M/2.5GE BASE-T PoE++ ports (multi-GE ports) **NOTE** Multi-GE ports do not support 10 Mbit/s in V600R023C00 version.	2	Four 1GE/10GE/25GE SFP28 optical ports
3	Two 40GE/100GE QSFP28 optical ports	4	One MODE button

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5	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-923 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)	
	10M/100M/1000M	2.5GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

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Table 4-924 Ports on the S5755-H48UN4Y2CZ

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE BASE-T PoE++ port (multi-GE port) sends and receives service data at 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s. Multi-GE ports do not support 10 Mbit/s in V600R023C00 version. The port supports the PoE function.	If the 2.5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category.

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 2 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	• **0.5 m and 1.5 m SFP28 dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48UN4Y2CZ has similar indicators to those on the S5755-H24UN4Y2CZ. For details, see the S5755-H24UN4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-925 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	740 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	–	648 W	• 802.3af (15.4 W per port): 42 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W DC	–	–	740 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
600 W AC (220 V)	–	–	399 W	• 802.3af (15.4 W per port): 25 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	–	–	114 W	• 802.3af (15.4 W per port): 7 • 802.3at (30 W per port): 3 • 802.3bt (60 W per port): 1 • 802.3bt (90 W per port): 1

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1638 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1458 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	600 W AC (220 V)	–	969 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 32 • 802.3bt (60 W per port): 16 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	–	399 W	• 802.3af (15.4 W per port): 25 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1278 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 42 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2820 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 47 • 802.3bt (90 W per port): 31
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1539 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25 • 802.3bt (90 W per port): 17
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2178 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 36 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1818 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 30 • 802.3bt (90 W per port): 20
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2268 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 37 • 802.3bt (90 W per port): 25

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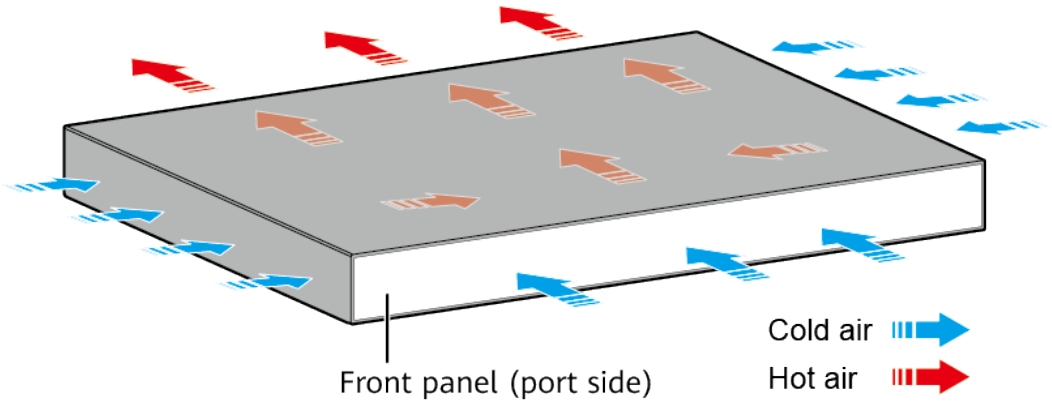
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	684 W	• 802.3af (15.4 W per port): 44 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-926 Technical specifications of the S5755-H48UN4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.81 kg (15.01 lb)
Weight with packaging [kg(lb)]	9.89 kg (21.8 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 135 W (all ports used) • 125 W (2 x 100GE ports not used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 460.63 (all ports used) • 426.51 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 151 W (all ports used) • 141 W (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 3022 W (PoE: 2820 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 515.23 (all ports used) • 481.11 (2 x 100GE ports not used) • Full PoE load, three 1000 W power modules: 10311.37
Static power consumption [W]	78 W
MTBF [years]	56.34 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.90 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 40.9 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.19 S5755-H24UTM4X4Y2C

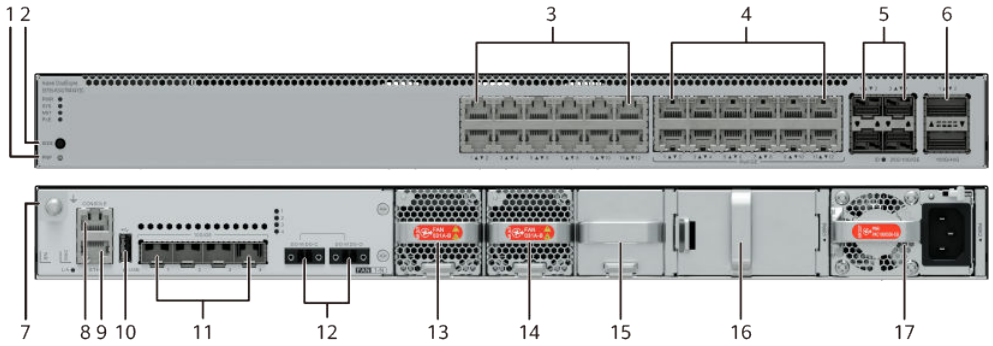
Overview

Table 4-927 Basic information about the S5755-H24UTM4X4Y2C

Item	Details
Description	S5755-H24UTM4X4Y2C (12*10/100/1000BASE-T ports, 12*100M/1/2.5/5/10GBASE-T ports, 4*10GE SFP+ ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, PoE++, without power module)
Part Number	02355NEA
Model	S5755-H24UTM4X4Y2C
First supported version	V600R023C00

Components

Figure 4-336 S5755-H24UTM4X4Y2C appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button

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3	Twelve 10/100/1000BASE-T PoE++ ports	4	Twelve 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)
5	Four 1GE/10GE/25GE SFP28 optical ports	6	Two 40GE/100GE QSFP28 optical ports
7	Ground screw **NOTE** It is used with a **ground cable**.	8	One console port
9	One ETH management port	10	One USB port
11	Four 10GE SFP+ ports	12	Monitoring port **NOTE** The port cannot be used in V600R023C00 version.
13	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	14	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
15	Fan module slot 3 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))** This slot is delivered without a fan module by default and can be purchased separately.	16	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
17	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-928 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

Table 4-929 Ports on the S5755-H24UTM4X4Y2C

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	Ethernet cable

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Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Port	Connector Type	Description	Available Components
DO port	2-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	2-Pin Phoenix Connector

Indicators and Buttons

Figure 4-337 Indicators on the Switch

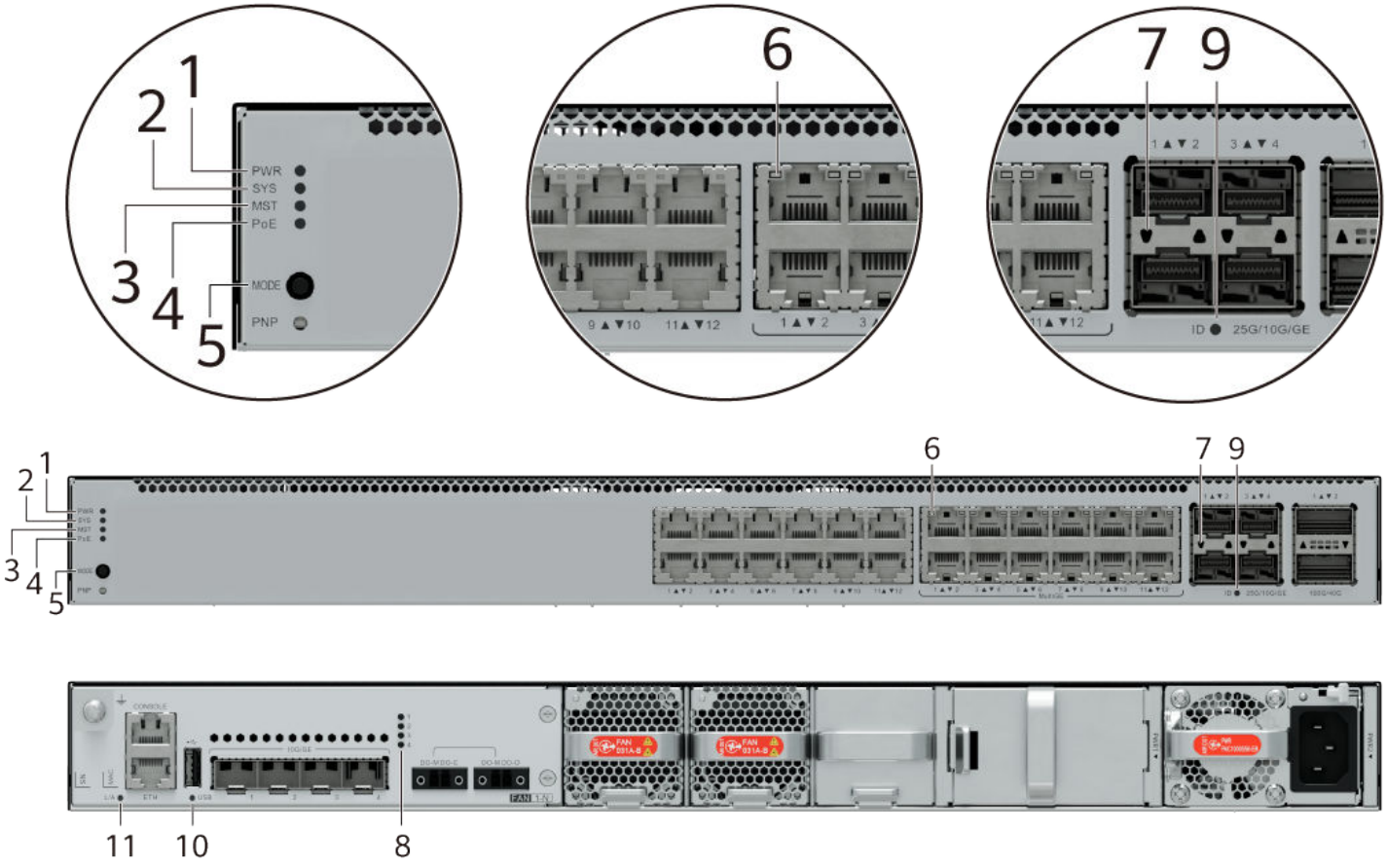

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Table 4-930 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Electrical service port indicator (one indicator for each port)	Each port in the upper row of electrical ports has two indicators. The indicator in the upper left corner is the indicator of the port, and the indicator in the upper right corner is the indicator of the electrical port under the port.		Meanings of service port indicators vary in different modes. For details, see **Table 4-931**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	-	Optical service port indicator (one indicator for each port)	The positions of the indicators are corresponding to the port numbers.		
9	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
10	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, the indicator fails, or the USB-based deployment fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
11	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-931 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, or 5 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 10 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

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Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-932 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	745 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	655 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1645 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1465 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	407 W	• 802.3af (15.4 W per port): 26 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	–	122 W	• 802.3af (15.4 W per port): 7 • 802.3at (30 W per port): 4 • 802.3bt (60 W per port): 2 • 802.3bt (90 W per port): 1
600 W AC (220 V)	600 W AC (220 V)	977 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 16 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	407 W	• 802.3af (15.4 W per port): 26 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1285 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

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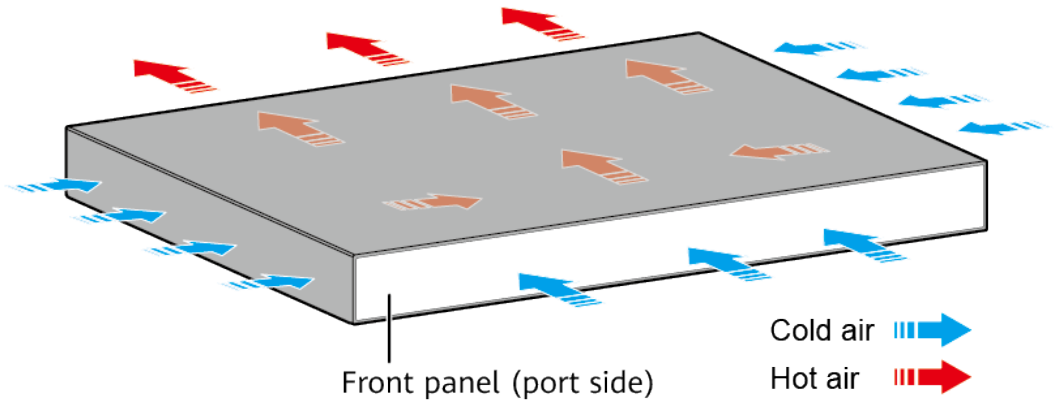
NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-933 Technical specifications of the S5755-H24UTM4X4Y2C

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 335.0 mm (1.72 in. x 17.4 in. x 13.19 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 368.0 mm (1.72 in. x 17.4 in. x 14.49 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	165.0 mm x 620.0 mm x 550.0 mm (6.50 in. x 24.41 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.09 kg (11.22 lb)
Weight with packaging [kg(lb)]	7.53 kg (16.6 lb)

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Item	Specification
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: ● 128 W (all ports used) ● 117 W (2 x 100GE ports not used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: ● 436.75 (all ports used) ● 399.22 (2 x 100GE ports not used)
Maximum power consumption [W]	● 100% traffic under the ATIS standard, dual power modules, and without PoE: ● 135 W (all ports used) ● 124 W (2 x 100GE ports not used) ● Full PoE load, two 1000 W power modules: 1823 W (PoE: 1645 W)
Maximum heat dissipation [BTU/hour]	● 100% traffic under the ATIS standard, dual power modules, and without PoE: ● 460.63 (all ports used) ● 423.10 (2 x 100GE ports not used) ● Full PoE load, two 1000 W power modules: 6220.26
Static power consumption [W]	74 W
MTBF [years]	59.77 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 51.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 39.7 dBA
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)

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Item	Specification
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.18.20 S5755-H24UTM4X4Y2C-T

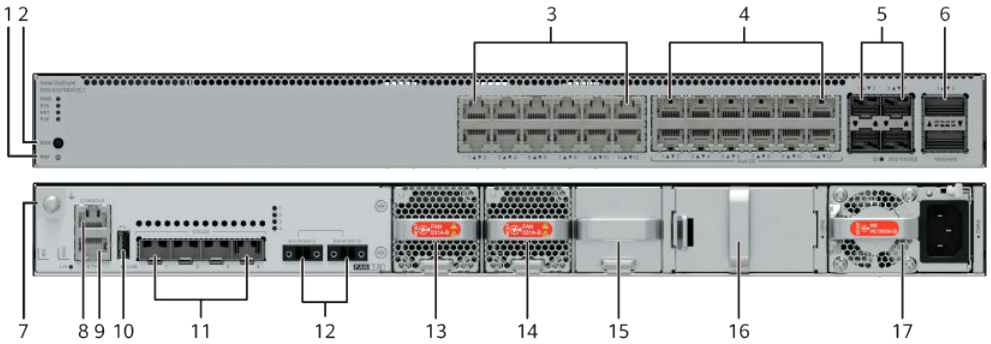
Overview

Table 4-934 Basic information about the S5755-H24UTM4X4Y2C-T

Item	Details
Description	S5755-H24UTM4X4Y2C-T (12*10/100/1000BASE-T ports, 12*100M/1/2.5/5/10GBASE-T ports, 4*10GE SFP+ ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, PoE++, without power module, HTM)
Part Number	02355RTL
Model	S5755-H24UTM4X4Y2C-T
First supported version	V600R023C00

Components

Figure 4-338 S5755-H24UTM4X4Y2C-T appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twelve 10/100/1000BASE-T PoE++ ports	4	Twelve 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)
5	Four 1GE/10GE/25GE SFP28 optical ports	6	Two 40GE/100GE QSFP28 optical ports
7	Ground screw **NOTE** It is used with a **ground cable**.	8	One console port
9	One ETH management port	10	One USB port
11	Four 10GE SFP+ ports	12	Monitoring port **NOTE** The port cannot be used in V600R023C00 version.
13	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	14	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
15	Fan module slot 3 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))** This slot is delivered without a fan module by default and can be purchased separately.	16	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

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17	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-935 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-936 Ports on the S5755-H24UTM4X4Y2C-T

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Port	Connector Type	Description	Available Components
DO port	2-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	2-Pin Phoenix Connector

Indicators and Buttons

Figure 4-339 Indicators on the Switch

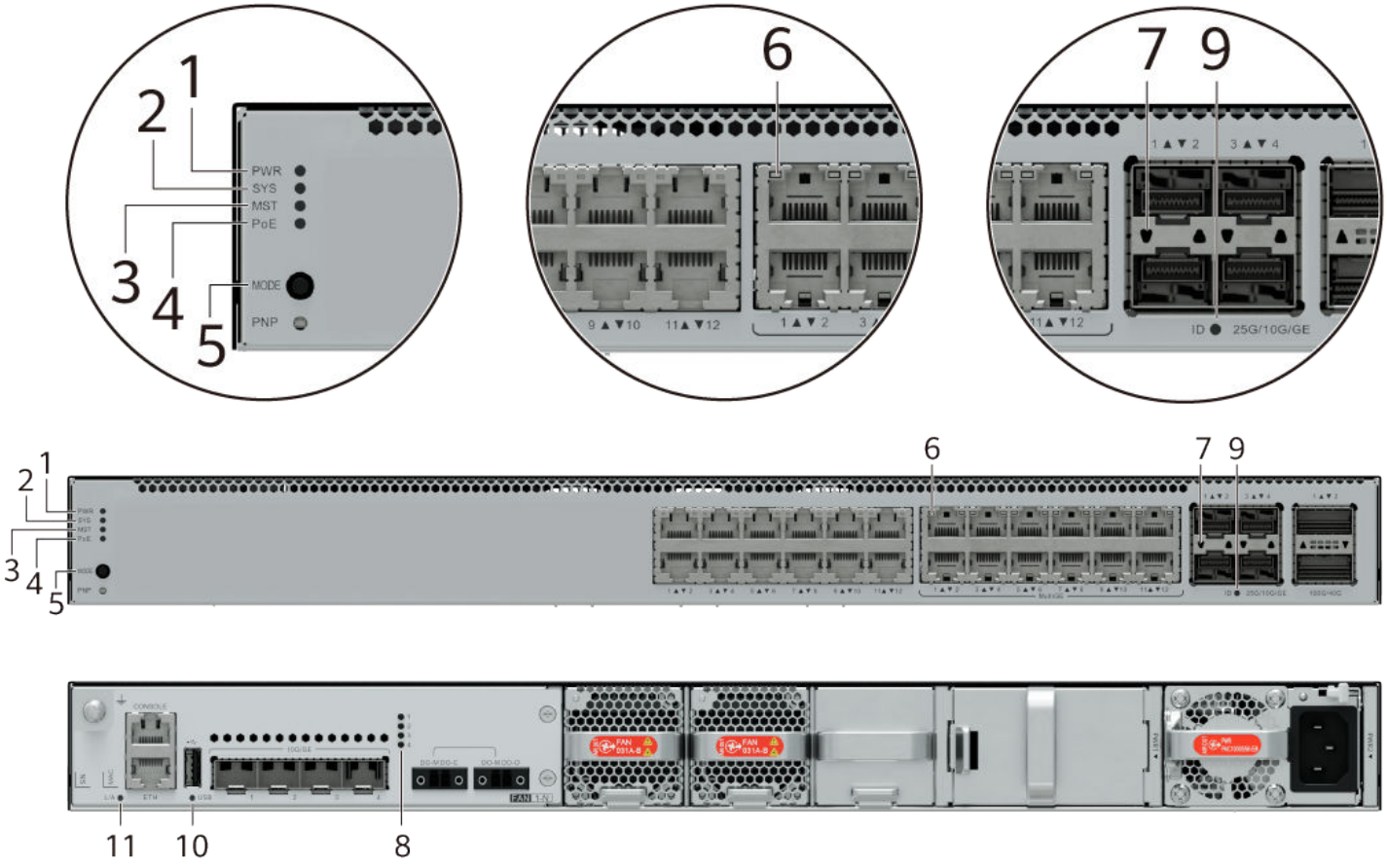

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Table 4-937 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Electrical service port indicator (one indicator for each port)	Each port in the upper row of electrical ports has two indicators. The indicator in the upper left corner is the indicator of the port, and the indicator in the upper right corner is the indicator of the electrical port under the port.		Meanings of service port indicators vary in different modes. For details, see **Table 4-938**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	-	Optical service port indicator (one indicator for each port)	The positions of the indicators are corresponding to the port numbers.		
9	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
10	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, the indicator fails, or the USB-based deployment fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
11	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-938 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.

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Display Mode	Color	Status	Description
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, or 5 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 10 Gbit/s. • 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

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Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-939 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	745 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	655 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1645 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1465 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	407 W	• 802.3af (15.4 W per port): 26 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	–	122 W	• 802.3af (15.4 W per port): 7 • 802.3at (30 W per port): 4 • 802.3bt (60 W per port): 2 • 802.3bt (90 W per port): 1
600 W AC (220 V)	600 W AC (220 V)	977 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 16 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	407 W	• 802.3af (15.4 W per port): 26 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1285 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

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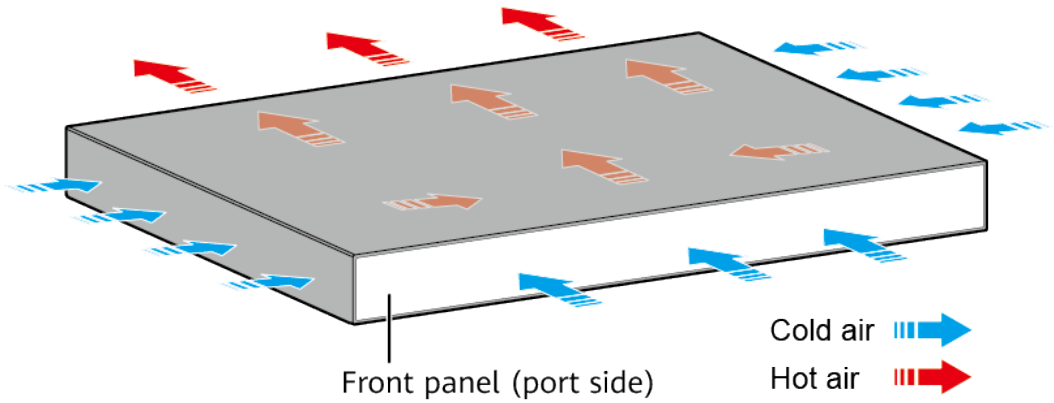
NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-940 Technical specifications of the S5755-H24UTM4X4Y2C-T

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 335.0 mm (1.72 in. x 17.4 in. x 13.19 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 368.0 mm (1.72 in. x 17.4 in. x 14.49 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	165.0 mm x 620.0 mm x 550.0 mm (6.50 in. x 24.41 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.09 kg (11.22 lb)
Weight with packaging [kg(lb)]	7.53 kg (16.6 lb)

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Item	Specification
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: ● 128 W (all ports used) ● 117 W (2 x 100GE ports not used)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: ● 436.75 (all ports used) ● 399.22 (2 x 100GE ports not used)
Maximum power consumption [W]	● 100% traffic under the ATIS standard, dual power modules, and without PoE: ● 135 W (all ports used) ● 124 W (2 x 100GE ports not used) ● Full PoE load, two 1000 W power modules: 1823 W (PoE: 1645 W)
Maximum heat dissipation [BTU/hour]	● 100% traffic under the ATIS standard, dual power modules, and without PoE: ● 460.63 (all ports used) ● 423.10 (2 x 100GE ports not used) ● Full PoE load, two 1000 W power modules: 6220.26
Static power consumption [W]	74 W
MTBF [years]	58.89 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 51.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 39.7 dBA
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)

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Item	Specification
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.18.21 S5755-H48UTM4X4Y2C

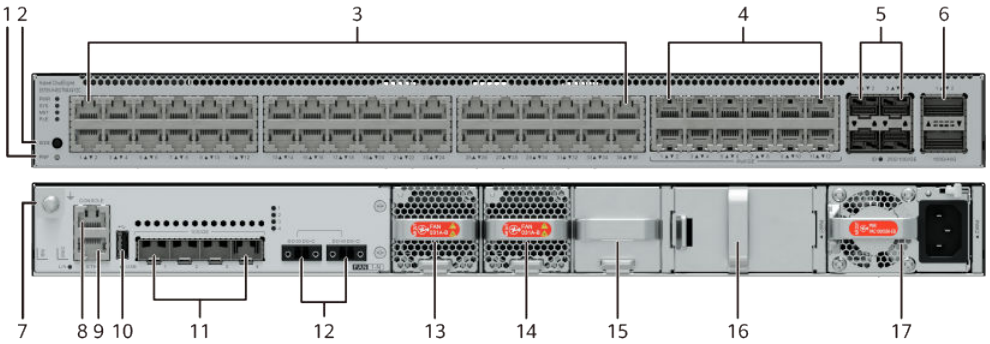
Overview

Table 4-941 Basic information about the S5755-H48UTM4X4Y2C

Item	Details
Description	S5755-H48UTM4X4Y2C (36*10/100/1000BASE-T ports, 12*100M/1/2.5/5/10GBASE-T ports, 4*10GE SFP+ ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, PoE++, without power module)
Part Number	02355NEB
Model	S5755-H48UTM4X4Y2C
First supported version	V600R023C00

Components

Figure 4-340 S5755-H48UTM4X4Y2C appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Thirty-six 10/100/1000BASE-T PoE+ + ports	4	Twelve 100M/1000M/2.5GE/5GE/ 10GE BASE-T PoE++ ports (multi-GE ports)
5	Four 1GE/10GE/25GE SFP28 optical ports	6	Two 40GE/100GE QSFP28 optical ports
7	Ground screw **NOTE** It is used with a **ground cable**.	8	One console port
9	One ETH management port	10	One USB port
11	Four 10GE SFP+ ports	12	Monitoring port **NOTE** The port cannot be used in V600R023C00 version.
13	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	14	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
15	Fan module slot 3 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))** This slot is delivered without a fan module by default and can be purchased separately.	16	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**

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17	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-942 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-943 Ports on the S5755-H48UTM4X4Y2C

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Port	Connector Type	Description	Available Components
DO port	2-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	2-Pin Phoenix Connector

Indicators and Buttons

The S5755-H48UTM4X4Y2C has similar indicators to those on the S5755-H24UTM4X4Y2C. For details, see the S5755-H24UTM4X4Y2C.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-944 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	740 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	644 W	• 802.3af (15.4 W per port): 41 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1634 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1454 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	–	394 W	• 802.3af (15.4 W per port): 25 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	-	109 W	• 802.3af (15.4 W per port): 7 • 802.3at (30 W per port): 3 • 802.3bt (60 W per port): 1 • 802.3bt (90 W per port): 1

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	964 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 32 • 802.3bt (60 W per port): 16 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	394 W	• 802.3af (15.4 W per port): 25 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1274 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 42 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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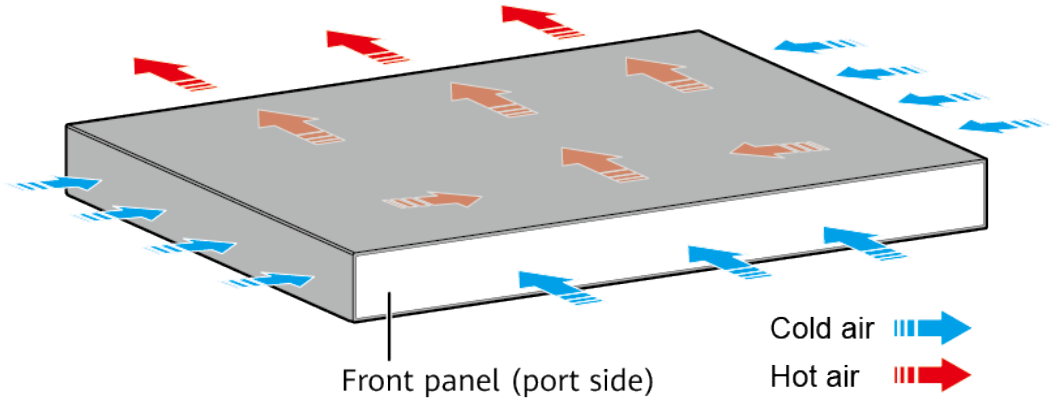

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-945 Technical specifications of the S5755-H48UTM4X4Y2C

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 335.0 mm (1.72 in. x 17.4 in. x 13.19 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 368.0 mm (1.72 in. x 17.4 in. x 14.49 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	165.0 mm x 620.0 mm x 550.0 mm (6.50 in. x 24.41 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.31 kg (11.71 lb)
Weight with packaging [kg(lb)]	7.75 kg (17.09 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 140 W (all ports used) • 130 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 477.69 (all ports used) • 443.57 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 152 W (all ports used) • 142 W (2 x 100GE ports not used) • Full PoE load, two 1000 W power modules: 1829 W (PoE: 1634 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 518.64 (all ports used) • 484.52 (2 x 100GE ports not used) • Full PoE load, two 1000 W power modules: 6274.85
Static power consumption [W]	83 W
MTBF [years]	49.54 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 51.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 39.7 dBA
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.22 S5755-H48UTM4X4Y2C-T

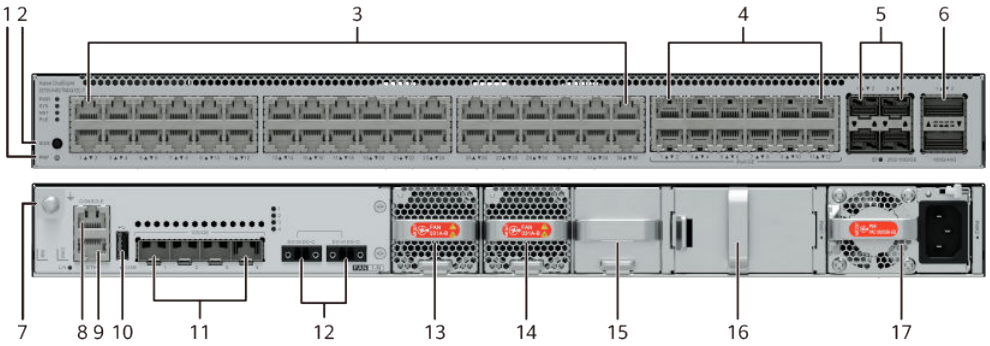
Overview

Table 4-946 Basic information about the S5755-H48UTM4X4Y2C-T

Item	Details
Description	S5755-H48UTM4X4Y2C-T (36*10/100/1000BASE-T ports, 12*100M/1/2.5/5/10GBASE-T ports, 4*10GE SFP+ ports, 4*25GE SFP28 ports, 2*100GE QSFP28 ports, PoE++, without power module, HTM)
Part Number	02355RTM
Model	S5755-H48UTM4X4Y2C-T
First supported version	V600R023C00

Components

Figure 4-341 S5755-H48UTM4X4Y2C-T appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button

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3	Thirty-six 10/100/1000BASE-T PoE++ ports	4	Twelve 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)
5	Four 1GE/10GE/25GE SFP28 optical ports	6	Two 40GE/100GE QSFP28 optical ports
7	Ground screw **NOTE** It is used with a **ground cable**.	8	One console port
9	One ETH management port	10	One USB port
11	Four 10GE SFP+ ports	12	Monitoring port **NOTE** The port cannot be used in V600R023C00 version.
13	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	14	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
15	Fan module slot 3 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))** This slot is delivered without a fan module by default and can be purchased separately.	16	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
17	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-947 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

Table 4-948 Ports on the S5755-H48UTM4X4Y2C-T

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE++ port	RJ45	A 10/100/1000BASE-T PoE++ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s. The port supports the PoE function.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE SFP+ port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	**dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Port	Connector Type	Description	Available Components
DO port	2-Pin Phoenix Connector	The DO port outputs signals so that the connected device can take corresponding actions. Signal type: Passive DO signals, Boolean value (short circuit and open circuit)	2-Pin Phoenix Connector

Indicators and Buttons

The S5755-H48UTM4X4Y2C-T has similar indicators to those on the S5755-H24UTM4X4Y2C. For details, see the S5755-H24UTM4X4Y2C.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-949 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	740 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	644 W	• 802.3af (15.4 W per port): 41 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1634 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1454 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	–	394 W	• 802.3af (15.4 W per port): 25 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	-	109 W	• 802.3af (15.4 W per port): 7 • 802.3at (30 W per port): 3 • 802.3bt (60 W per port): 1 • 802.3bt (90 W per port): 1

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	964 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 32 • 802.3bt (60 W per port): 16 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	394 W	• 802.3af (15.4 W per port): 25 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1274 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 42 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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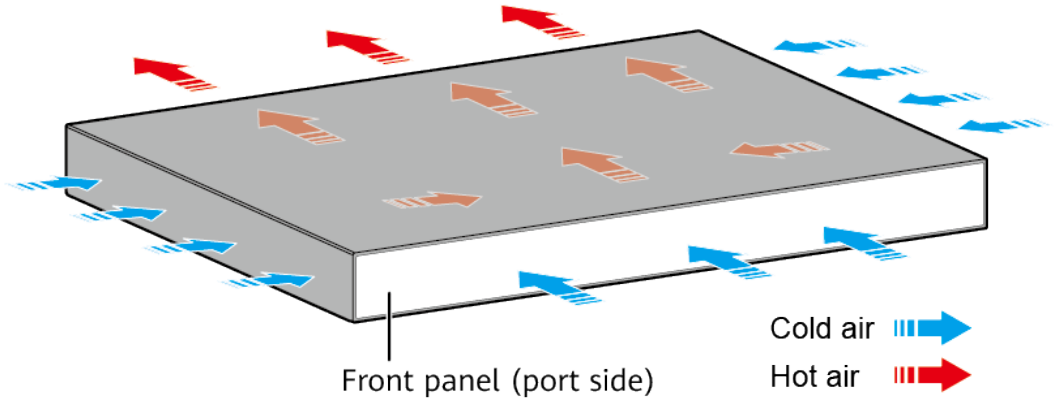

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-950 Technical specifications of the S5755-H48UTM4X4Y2C-T

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 335.0 mm (1.72 in. x 17.4 in. x 13.19 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 368.0 mm (1.72 in. x 17.4 in. x 14.49 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	165.0 mm x 620.0 mm x 550.0 mm (6.50 in. x 24.41 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.31 kg (11.71 lb)
Weight with packaging [kg(lb)]	7.75 kg (17.09 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power supplies: • 140 W (all ports used) • 130 W (2 x 100GE ports not used)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power supplies: • 477.69 (all ports used) • 443.57 (2 x 100GE ports not used)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 152 W (all ports used) • 142 W (2 x 100GE ports not used) • Full PoE load, two 1000 W power modules: 1829 W (PoE: 1634 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 518.64 (all ports used) • 484.52 (2 x 100GE ports not used) • Full PoE load, two 1000 W power modules: 6274.85
Static power consumption [W]	83 W
MTBF [years]	48.93 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 51.70 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 39.7 dBA
Number of card slots	0
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.23 S5755-H24UM4Y2CZ (98012636)

Overview

Table 4-951 Basic information about the S5755-H24UM4Y2CZ

Item	Details
Description	S5755-H24UM4Y2CZ (24*10/100/1G/2.5GBASE-T ports, Optional RTU upgrade to 5/10G, 4*25GE SFP28, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	98012636
Model	S5755-H24UM4Y2CZ
First supported version	V600R024C10
Remarks	By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase RTU licenses to increase the port rate to 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license and then run the active port-license command.

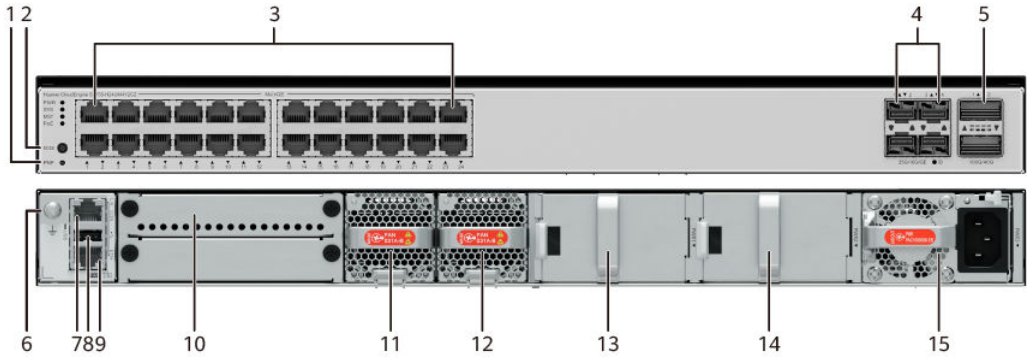
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-342 S5755-H24UM4Y2CZ appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 1GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** • **HSIC-Y08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-952 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-953 Ports on the S5755-H24UM4Y2CZ

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s,100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 10 Mbit/s,100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase an RTU license to increase the port rate to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-343 Indicators on the Switch

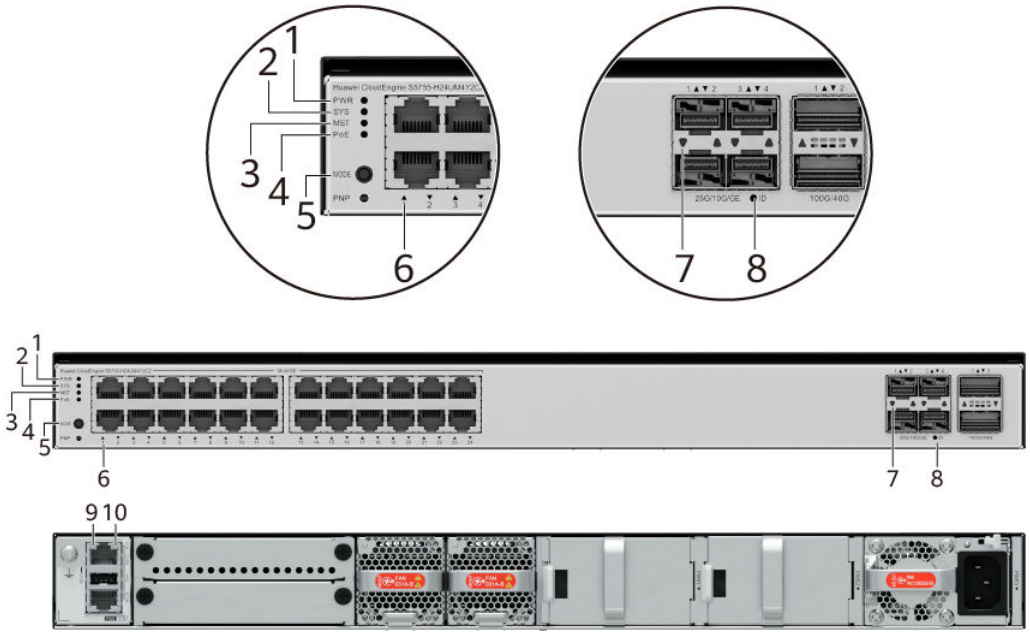

Table 4-954 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.

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No.	Indicator	Name	Color	Status	Description
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Electrical service port indicator (one indicator for each port)	Each port in the upper row of electrical ports has two indicators. The indicator in the upper left corner is the indicator of the port, and the indicator in the upper right corner is the indicator of the electrical port under the port.		Meanings of service port indicators vary in different modes. For details, see **Table 4-955**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, the indicator fails, or the USB-based deployment fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	USB-based deployment is in progress.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-955 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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Display Mode	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, or 5 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 10 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-956 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	–	630 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W DC	–	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
600 W AC (220 V)	–	–	380 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 12 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	–	–	95 W	• 802.3af (15.4 W per port): 6 • 802.3at (30 W per port): 3 • 802.3bt (60 W per port): 1 • 802.3bt (90 W per port): 1

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1620 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1438 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
600 W AC (220 V)	600 W AC (220 V)	–	950 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	–	380 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 12 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1260 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1520 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2160 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1800 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 20
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2248 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24

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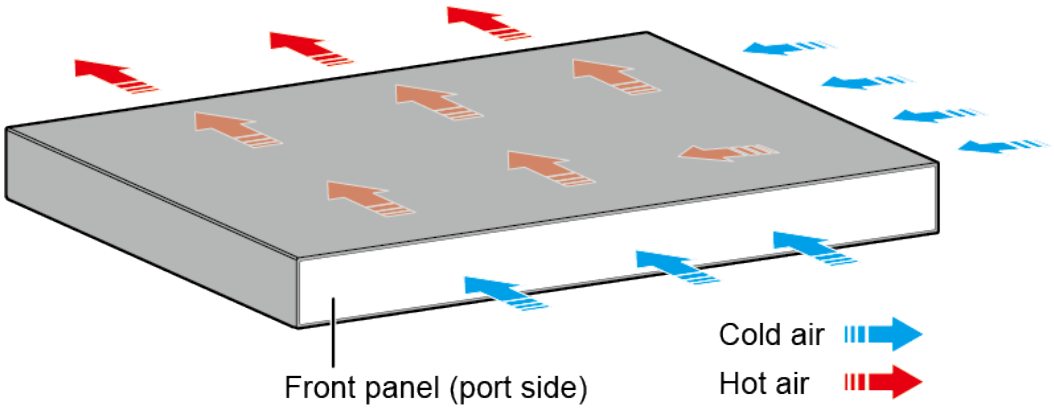
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	665 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-957 Technical specifications of the S5755-H24UM4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.21 kg (13.69 lb)
Weight with packaging [kg(lb)]	7.96 kg (17.55 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 133 W (all 2.5GE electrical ports) • 162 W (all 10GE electrical ports)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: • 453.81 (all 2.5GE electrical ports) • 552.76 (all 10GE electrical ports)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 170 W (all 10GE electrical ports, dual AC power modules) • 176 W (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 217.4 W (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 2660 W (PoE: 2268 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 580.06 (all 10GE electrical ports, dual AC power modules) • 600.53 (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 741.79 (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 9076.19 (PoE: 7738.64)
Static power consumption [W]	90 W
MTBF [years]	86.27 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 60.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 46.4 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.24 S5755-H24UM4Y2CZ (98012636-001)

Overview

Table 4-958 Basic information about the S5755-H24UM4Y2CZ

Item	Details
Description	S5755-H24UM4Y2CZ 2.5&10G bundle (12*10/100/1G/2.5GBASE-T ports, 12*10/100/1G/2.5/5/10GBASE-T ports, Optional RTU upgrade to 5/10G, 4*25GE SFP28, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	98012636-001
Model	S5755-H24UM4Y2CZ
First supported version	V600R024C10
Remarks	By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. An RTU license for increasing the rate of 12 ports from 2.5 Gbit/s to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase an RTU license to increase the rate of the other 12 ports to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license and then run the active port-license command.

NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

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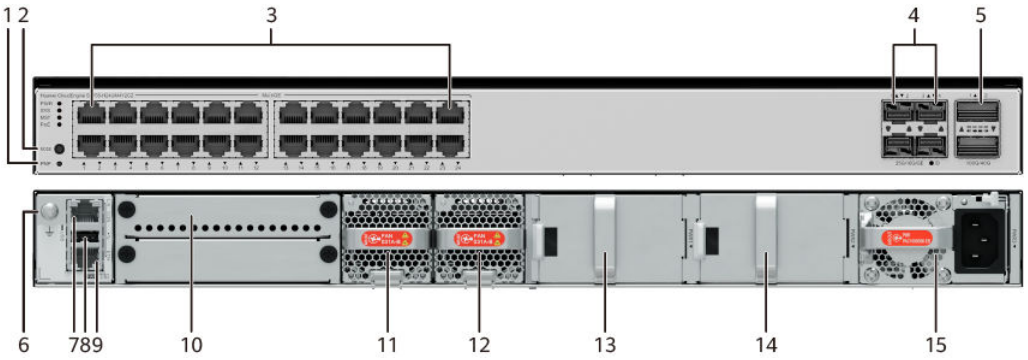
Components

Figure 4-344 S5755-H24UM4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 1GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** • **HSIC-Y08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-959 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-960 Ports on the S5755-H24UM4Y2CZ

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s,100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 10 Mbit/s,100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU license for upgrading 12 x 2.5GE ports to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase an RTU license to increase the rate of the other 12 ports to 5 Gbit/s or 10 Gbit/s. To increase the rate of these ports to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
		run the active port-license command.	

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-345 Indicators on the Switch

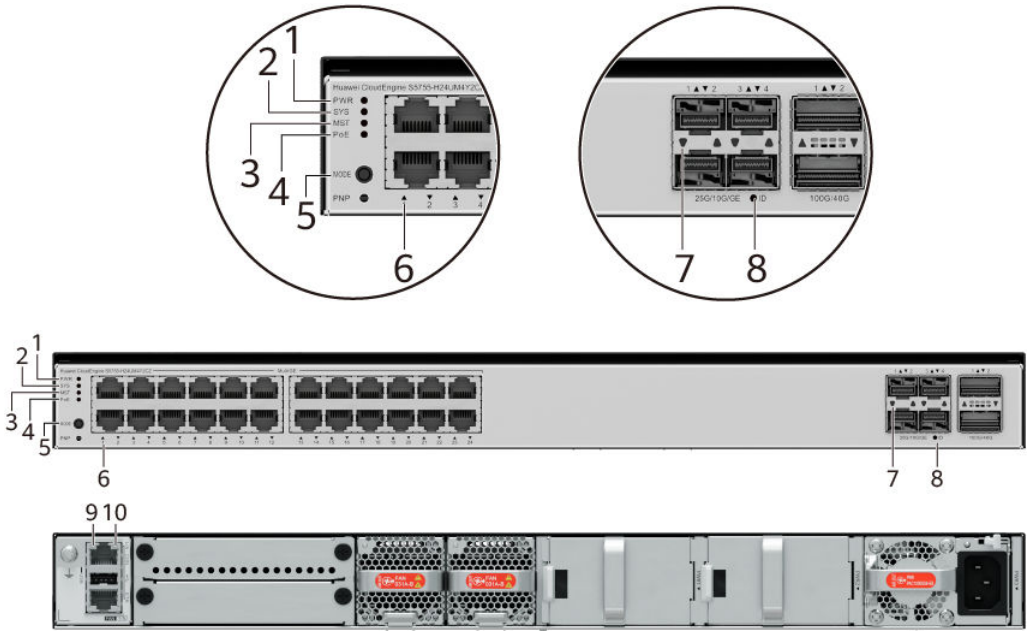

Table 4-961 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.

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No.	Indicator	Name	Color	Status	Description
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Electrical service port indicator (one indicator for each port)	Each port in the upper row of electrical ports has two indicators. The indicator in the upper left corner is the indicator of the port, and the indicator in the upper right corner is the indicator of the electrical port under the port.		Meanings of service port indicators vary in different modes. For details, see **Table 4-962**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, the indicator fails, or the USB-based deployment fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	USB-based deployment is in progress.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-962 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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Display Mode	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, or 5 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 10 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-963 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	–	630 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W DC	–	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
600 W AC (220 V)	–	–	380 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 12 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	–	–	95 W	• 802.3af (15.4 W per port): 6 • 802.3at (30 W per port): 3 • 802.3bt (60 W per port): 1 • 802.3bt (90 W per port): 1

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1620 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1438 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
600 W AC (220 V)	600 W AC (220 V)	–	950 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	–	380 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 12 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1260 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1520 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2160 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1800 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 20
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2248 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24

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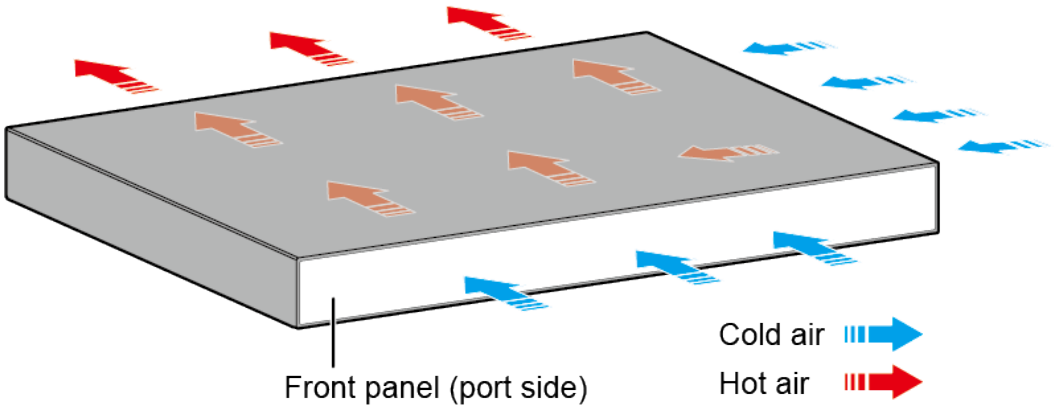
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	665 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-964 Technical specifications of the S5755-H24UM4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.21 kg (13.69 lb)
Weight with packaging [kg(lb)]	7.96 kg (17.55 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 146 W (12 x 2.5GE + 12 x 10GE electrical) • 162 W (all 10GE electrical ports)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: • 498.17 (12 x 2.5GE + 12 x 10GE electrical) • 552.76 (all 10GE electrical ports)

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Item	Specification
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 170 W (all 10GE electrical ports, dual AC power modules) • 176 W (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 217.4 W (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 2660 W (PoE: 2268 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 580.06 (all 10GE electrical ports, dual AC power modules) • 600.53 (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 741.79 (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 9076.19 (PoE: 7738.64)
Static power consumption [W]	90 W
MTBF [years]	86.27 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 60.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 46.4 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing

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Item	Specification
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.18.25 S5755-H24UM4Y2CZ (98012636-002)

Overview

Table 4-965 Basic information about the S5755-H24UM4Y2CZ

Item	Details
Description	S5755-H24UM4Y2CZ 5G bundle (24*10/100/1G/2.5/5GBASE-T ports, Optional RTU upgrade to 10G, 4*25GE SFP28, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	98012636-002
Model	S5755-H24UM4Y2CZ
First supported version	V600R024C10
Remarks	By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 24 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

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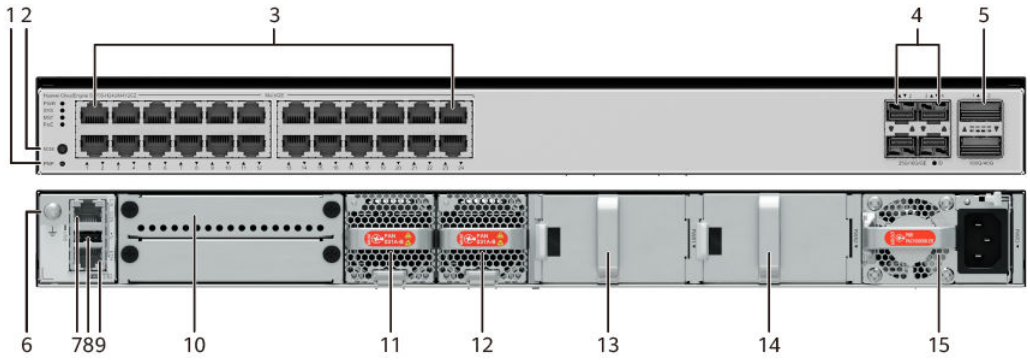
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-346 S5755-H24UM4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 1GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** • **HSIC-Y08S000**

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11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-966 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-967 Ports on the S5755-H24UM4Y2CZ

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s,100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 10 Mbit/s,100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 24 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
		active port-license command.	

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-347 Indicators on the Switch

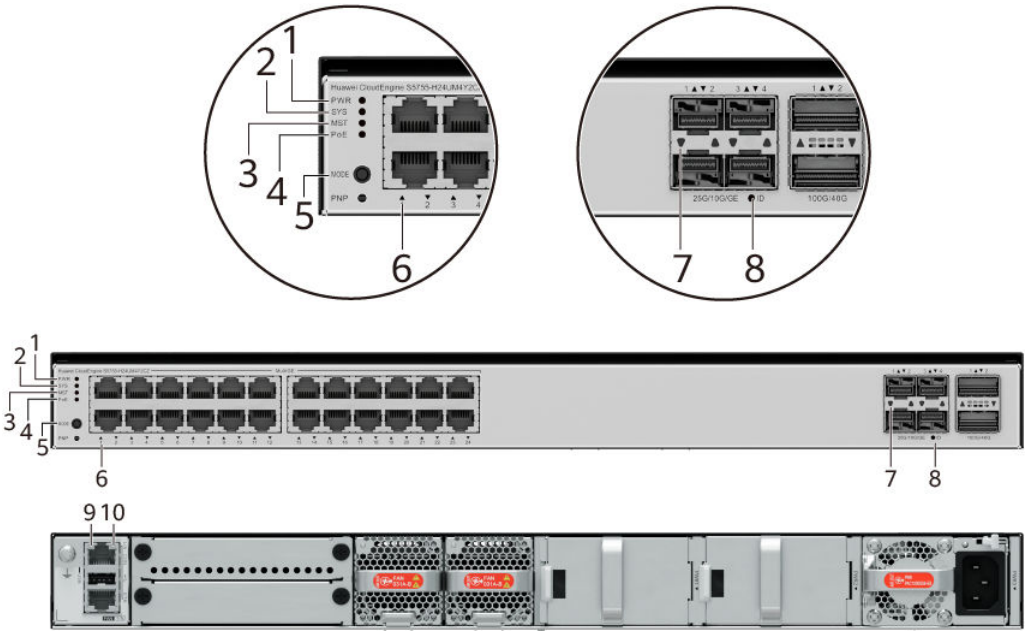

Table 4-968 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.

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No.	Indicator	Name	Color	Status	Description
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Electrical service port indicator (one indicator for each port)	Each port in the upper row of electrical ports has two indicators. The indicator in the upper left corner is the indicator of the port, and the indicator in the upper right corner is the indicator of the electrical port under the port.		Meanings of service port indicators vary in different modes. For details, see **Table 4-969**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, the indicator fails, or the USB-based deployment fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	USB-based deployment is in progress.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-969 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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Display Mode	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, or 5 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 10 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-970 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	–	630 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W DC	–	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
600 W AC (220 V)	–	–	380 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 12 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	–	–	95 W	• 802.3af (15.4 W per port): 6 • 802.3at (30 W per port): 3 • 802.3bt (60 W per port): 1 • 802.3bt (90 W per port): 1

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1620 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1438 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
600 W AC (220 V)	600 W AC (220 V)	–	950 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	–	380 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 12 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1260 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1520 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2160 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1800 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 20
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2248 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24

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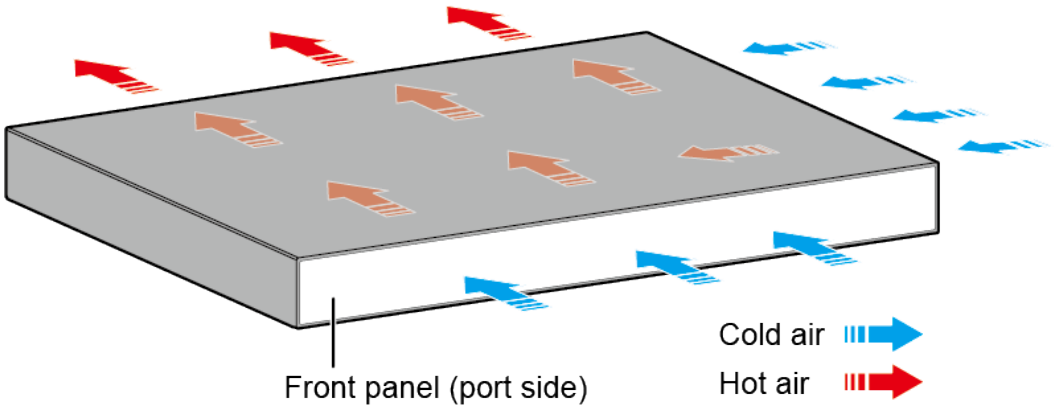
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	665 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-971 Technical specifications of the S5755-H24UM4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.21 kg (13.69 lb)
Weight with packaging [kg(lb)]	7.96 kg (17.55 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 141 W (all 5GE electrical ports) • 162 W (all 10GE electrical ports)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: • 481.11 (all 5GE electrical ports) • 552.76 (all 10GE electrical ports)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 170 W (all 10GE electrical ports, dual AC power modules) • 176 W (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 217.4 W (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 2660 W (PoE: 2268 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 580.06 (all 10GE electrical ports, dual AC power modules) • 600.53 (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 741.79 (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 9076.19 (PoE: 7738.64)
Static power consumption [W]	90 W
MTBF [years]	86.27 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 60.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 46.4 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.26 S5755-H24UM4Y2CZ (98012636-003)

Overview

Table 4-972 Basic information about the S5755-H24UM4Y2CZ

Item	Details
Description	S5755-H24UM4Y2CZ 10G bundle (24*10/100/1G/2.5/5/10GBASE-T ports, 4*25GE SFP28, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	98012636-003
Model	S5755-H24UM4Y2CZ
First supported version	V600R024C10
Remarks	By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 24 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.

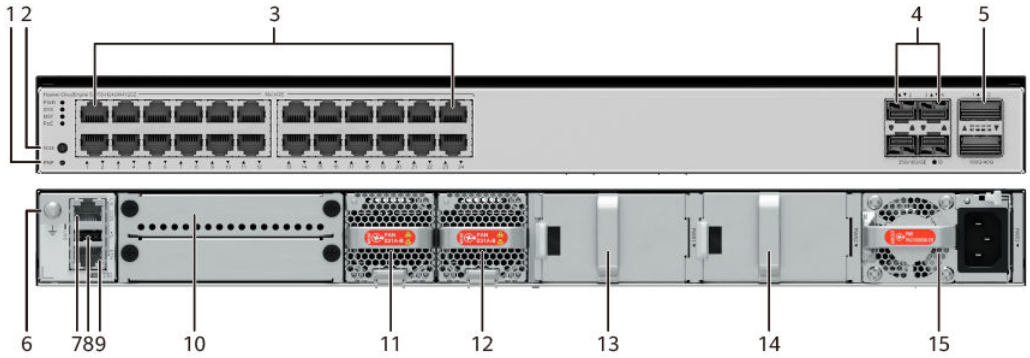
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-348 S5755-H24UM4Y2CZ appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 1GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** • **HSIC-Y08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-973 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-974 Ports on the S5755-H24UM4Y2CZ

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s,100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s, and the RTU licenses for increasing the rate of 24 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-349 Indicators on the Switch

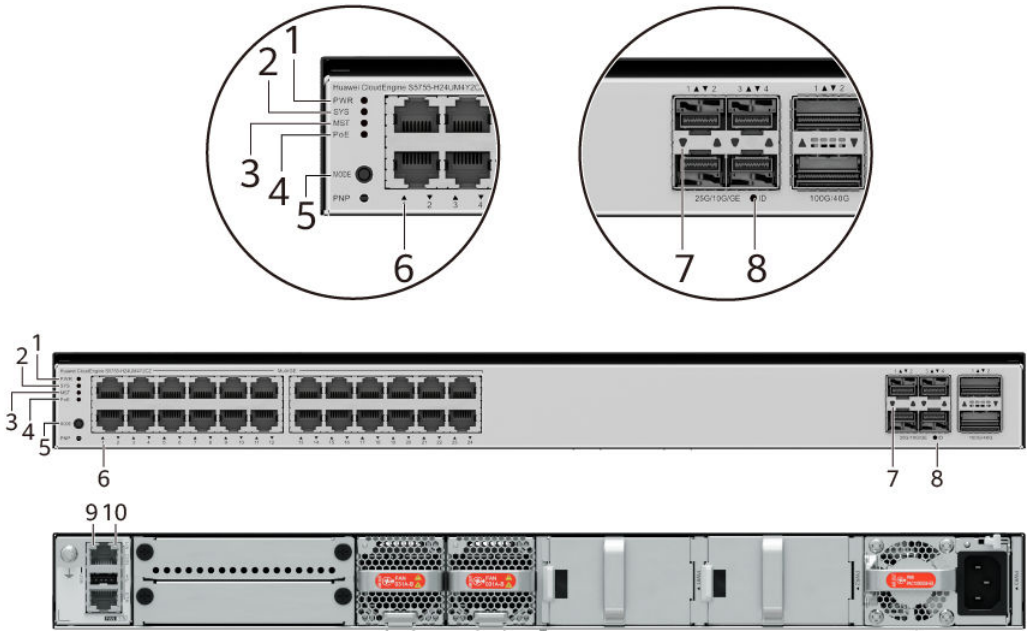

Table 4-975 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.

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No.	Indicator	Name	Color	Status	Description
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	MST	Stack indicator	-	Off	• If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. • If you are changing the indicator mode: The stack mode is not selected.
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
4	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the PoE indicator is off. **NOTE** Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.

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No.	Indicator	Name	Color	Status	Description
6	-	Electrical service port indicator (one indicator for each port)	Each port in the upper row of electrical ports has two indicators. The indicator in the upper left corner is the indicator of the port, and the indicator in the upper right corner is the indicator of the electrical port under the port.		Meanings of service port indicators vary in different modes. For details, see **Table 4-976**. **NOTE** If a power failure occurs on a device's PCB board, indicators of the last four GE, 10GE, or 25GE optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.
7	-	Optical service port indicator (one indicator for each port)	Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
9	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, the indicator fails, or the USB-based deployment fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	USB-based deployment is in progress.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-976 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green	Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
	Green	Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.

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Display Mode	Color	Status	Description
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s, 1000 Mbit/s, 2.5 Gbit/s, or 5 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• 100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 10 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-977 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	–	630 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W DC	–	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
600 W AC (220 V)	–	–	380 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 12 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	–	–	95 W	• 802.3af (15.4 W per port): 6 • 802.3at (30 W per port): 3 • 802.3bt (60 W per port): 1 • 802.3bt (90 W per port): 1

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1620 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1438 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
600 W AC (220 V)	600 W AC (220 V)	–	950 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	–	380 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 12 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1260 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1520 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2160 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1800 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 20
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2248 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24

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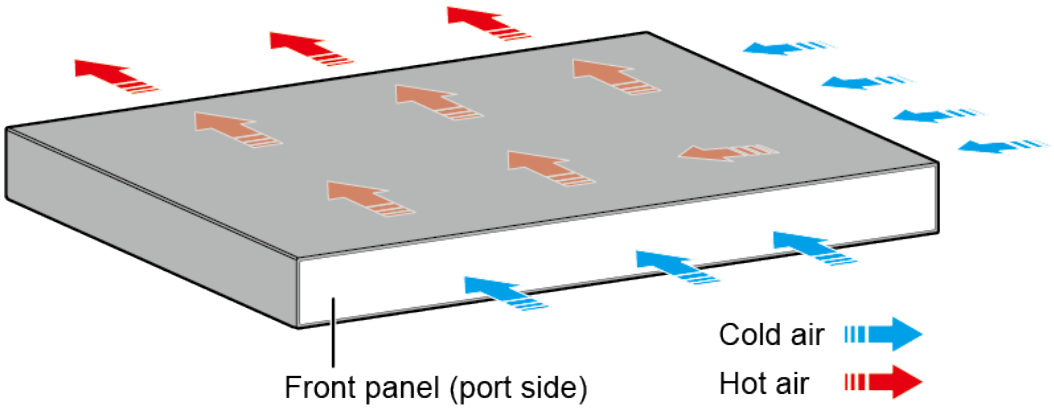
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	665 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-978 Technical specifications of the S5755-H24UM4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.21 kg (13.69 lb)
Weight with packaging [kg(lb)]	7.96 kg (17.55 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: - 162 W (all 10GE electrical ports)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: - 552.76 (all 10GE electrical ports)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 170 W (all 10GE electrical ports, dual AC power modules) • 176 W (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 217.4 W (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 2660 W (PoE: 2268 W)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 580.06 (all 10GE electrical ports, dual AC power modules) • 600.53 (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 741.79 (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 9076.19 (PoE: 7738.64)
Static power consumption [W]	90 W
MTBF [years]	86.27 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 60.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 46.4 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.27 S5755-H24UM4Y2CZ-T

Overview

Table 4-979 Basic information about the S5755-H24UM4Y2CZ-T

Item	Details
Description	S5755-H24UM4Y2CZ-T 2.5&10G bundle (12*10/100/1G/2.5GBASE-T ports, 12*10/100/1G/2.5/5/10GBASE-T ports, Optional RTU upgrade to 5/10G, 4*25GE SFP28, 2*100GE QSFP28 ports, expansion card slot,PoE++, HTM,without power module)
Part Number	98012640
Model	S5755-H24UM4Y2CZ-T
First supported version	V600R024C10
Remarks	By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. An RTU license for increasing the rate of 12 ports from 2.5 Gbit/s to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase an RTU license to increase the rate of the other 12 ports to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license and then run the active port-license command.

NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

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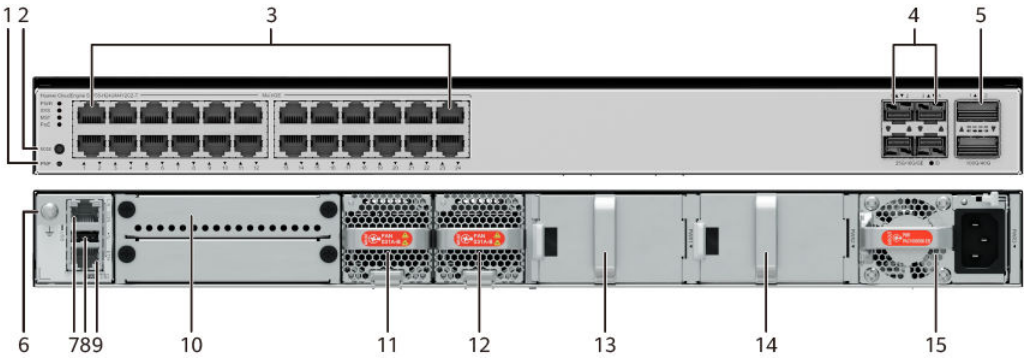
Components

Figure 4-350 S5755-H24UM4Y2CZ-T appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 1GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** • **HSIC-Y08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-980 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-981 Ports on the S5755-H24UM4Y2CZ-T

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s,100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 10 Mbit/s,100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU license for upgrading 12 x 2.5GE ports to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase an RTU license to increase the rate of the other 12 ports to 5 Gbit/s or 10 Gbit/s. To increase the rate of these ports to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
		run the active port-license command.	

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE, port mode 10GE-GE, or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 10GE-GE and port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 10GE-GE command is run,	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
		the port supports 10GE/GE auto-sensing. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H24UM4Y2CZ-T has similar indicators to those on the S5755-H24UM4Y2CZ. For details, see the S5755-H24UM4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-982 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	–	630 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W DC	–	–	720 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
600 W AC (220 V)	–	–	380 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 12 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	–	–	95 W	• 802.3af (15.4 W per port): 6 • 802.3at (30 W per port): 3 • 802.3bt (60 W per port): 1 • 802.3bt (90 W per port): 1

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1620 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1438 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
600 W AC (220 V)	600 W AC (220 V)	–	950 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	–	380 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 12 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1260 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1520 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2160 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1800 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 20
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2248 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24

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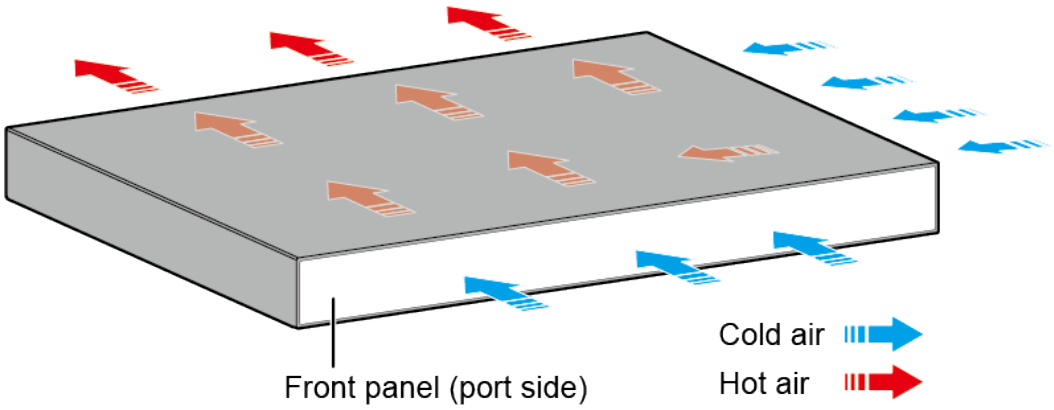
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	665 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7

NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-983 Technical specifications of the S5755-H24UM4Y2CZ-T

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.21 kg (13.69 lb)
Weight with packaging [kg(lb)]	7.96 kg (17.55 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 146 W (12 x 2.5GE + 12 x 10GE electrical) • 162 W (all 10GE electrical ports)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: • 498.17 (12 x 2.5GE + 12 x 10GE electrical) • 552.76 (all 10GE electrical ports)

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Item	Specification
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 170 W (all 10GE electrical ports, dual AC power modules) • 176 W (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 217.4 W (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 2660 W (PoE: 2268 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 580.06 (all 10GE electrical ports, dual AC power modules) • 600.53 (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 741.79 (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 9076.19 (PoE: 7738.64)
Static power consumption [W]	90 W
MTBF [years]	84.62 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 60.1 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 46.4 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2

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Item	Specification
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing

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Item	Specification
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.18.28 S5755-H48UM4Y2CZ (98012643)

Overview

Table 4-984 Basic information about the S5755-H48UM4Y2CZ

Item	Details
Description	S5755-H48UM4Y2CZ (48*10/100/1G/2.5GBASE-T ports, Optional RTU upgrade to 5/10G, 4*25GE SFP28, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	98012643
Model	S5755-H48UM4Y2CZ
First supported version	V600R024C10
Remarks	By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase RTU licenses to increase the port rate to 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license and then run the active port-license command.

NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

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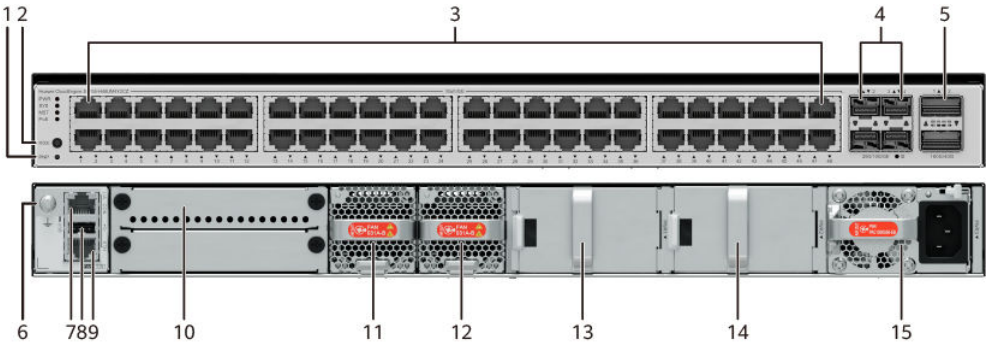
Components

Figure 4-351 S5755-H48UM4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 1GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** • **HSIC-Y08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-985 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-986 Ports on the S5755-H48UM4Y2CZ

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s,100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 10 Mbit/s,100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase an RTU license to increase the port rate to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48UM4Y2CZ has similar indicators to those on the S5755-H24UM4Y2CZ. For details, see the S5755-H24UM4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-987 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	740 W*	• 802.3af (15.4 W per port): 48* • 802.3at (30 W per port): 24* • 802.3bt (60 W per port): 12* • 802.3bt (90 W per port): 8*
1000 W AC (110 V)	–	–	510 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
1000 W DC	–	–	740 W*	• 802.3af (15.4 W per port): 48* • 802.3at (30 W per port): 24* • 802.3bt (60 W per port): 12* • 802.3bt (90 W per port): 8*
600 W AC (220 V)	–	–	254 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1500 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1320 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 44 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 14
600 W AC (220 V)	600 W AC (220 V)	–	824 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	–	254 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1140 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 38 • 802.3bt (60 W per port): 19 • 802.3bt (90 W per port): 12
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2667 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 44 • 802.3bt (90 W per port): 29

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1394 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2040 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 34 • 802.3bt (90 W per port): 22
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2130 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 35 • 802.3bt (90 W per port): 23
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	539 W	• 802.3af (15.4 W per port): 35 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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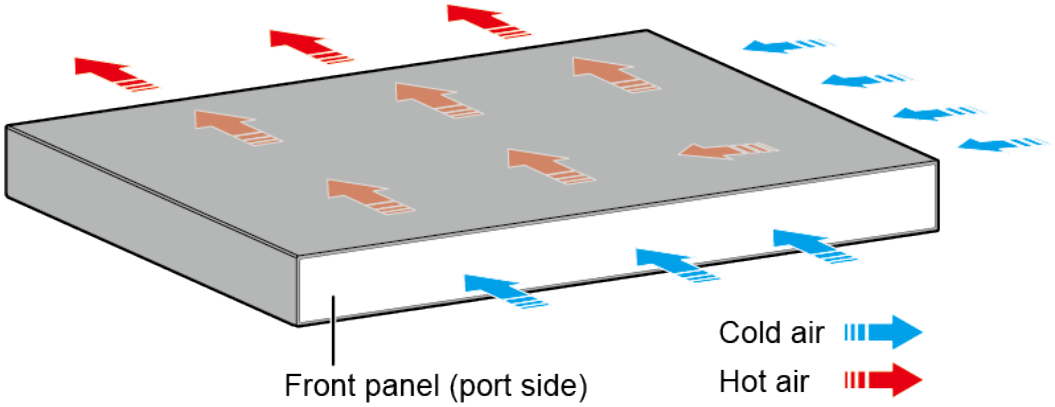
NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.
*: For details, refer to the specs website.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-988 Technical specifications of the S5755-H48UM4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.88 kg (15.17 lb)

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Item	Specification
Weight with packaging [kg(lb)]	8.63 kg (19.03 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 232 W (all 2.5GE electrical ports) • 292 W (all 10GE electrical ports)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: • 791.61 (all 2.5GE electrical ports) • 996.33 (all 10GE electrical ports)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 327 W (all 10GE electrical ports, dual AC power modules) • 297 W (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 359.1 W (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 3120 W (PoE: 2667 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 1115.76 (all 10GE electrical ports, dual AC power modules) • 1013.39 (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 1225.29 (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 10645.75 (PoE: 9100.1)
Static power consumption [W]	159 W
MTBF [years]	60.81 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 58.9 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 45.2 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.29 S5755-H48UM4Y2CZ (98012643-001)

Overview

Table 4-989 Basic information about the S5755-H48UM4Y2CZ

Item	Details
Description	S5755-H48UM4Y2CZ 2.5&10G bundle (36*10/100/1G/2.5GBASE-T ports, 12*10/100/1G/2.5/5/10GBASE-T ports, PoE++, Optional RTU upgrade to 5/10G, 4*25GE SFP28, 2*100GE QSFP28 ports,expansion card slot,PoE++,without power module)
Part Number	98012643-001
Model	S5755-H48UM4Y2CZ
First supported version	V600R024C10
Remarks	By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. An RTU license for increasing the rate of 12 ports from 2.5 Gbit/s to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase RTU licenses to increase the rate of the other 36 ports to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license and then run the active port-license command.

NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

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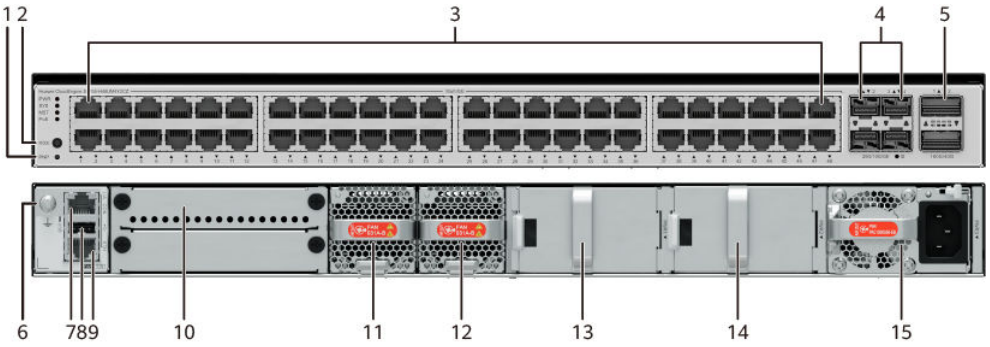
Components

Figure 4-352 S5755-H48UM4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 1GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** • **HSIC-Y08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-990 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-991 Ports on the S5755-H48UM4Y2CZ

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s,100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 10 Mbit/s,100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU license for upgrading 12 x 2.5GE ports to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase RTU licenses to increase the rate of the other 36 ports to 5 Gbit/s or 10 Gbit/s. To increase the rate of these ports to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
		license, and then run the active port-license command.	

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48UM4Y2CZ has similar indicators to those on the S5755-H24UM4Y2CZ. For details, see the S5755-H24UM4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-992 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	740 W*	• 802.3af (15.4 W per port): 48* • 802.3at (30 W per port): 24* • 802.3bt (60 W per port): 12* • 802.3bt (90 W per port): 8*
1000 W AC (110 V)	–	–	510 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
1000 W DC	–	–	740 W*	• 802.3af (15.4 W per port): 48* • 802.3at (30 W per port): 24* • 802.3bt (60 W per port): 12* • 802.3bt (90 W per port): 8*
600 W AC (220 V)	–	–	254 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1500 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1320 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 44 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 14
600 W AC (220 V)	600 W AC (220 V)	–	824 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	–	254 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1140 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 38 • 802.3bt (60 W per port): 19 • 802.3bt (90 W per port): 12
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2667 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 44 • 802.3bt (90 W per port): 29

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1394 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2040 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 34 • 802.3bt (90 W per port): 22
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2130 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 35 • 802.3bt (90 W per port): 23
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	539 W	• 802.3af (15.4 W per port): 35 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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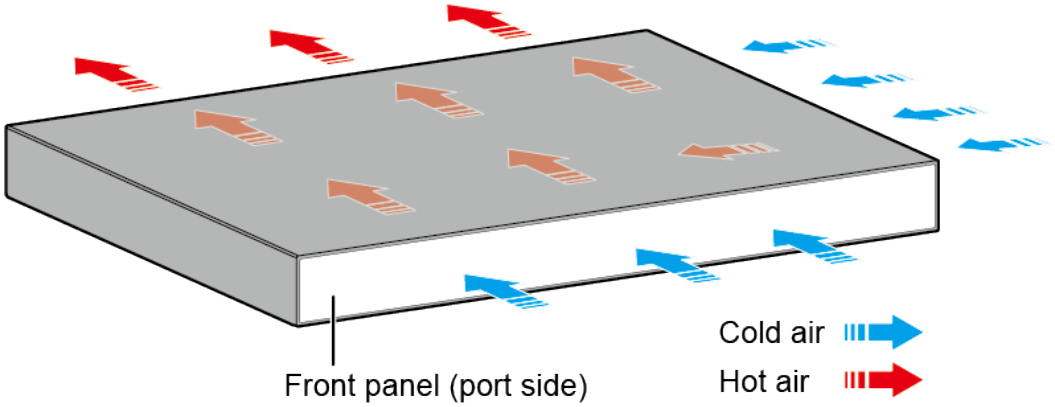
NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.
*: For details, refer to the specs website.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-993 Technical specifications of the S5755-H48UM4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.88 kg (15.17 lb)

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Item	Specification
Weight with packaging [kg(lb)]	8.63 kg (19.03 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 246 W (36 x 2.5GE + 12 x 10GE electrical) • 292 W (all 10GE electrical ports)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: • 839.38 (36 x 2.5GE + 12 x 10GE electrical) • 996.33 (all 10GE electrical ports)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 327 W (all 10GE electrical ports, dual AC power modules) • 297 W (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 359.1 W (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 3120 W (PoE: 2667 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 1115.76 (all 10GE electrical ports, dual AC power modules) • 1013.39 (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 1225.29 (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 10645.75 (PoE: 9100.1)
Static power consumption [W]	159 W
MTBF [years]	60.81 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 58.9 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 45.2 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.30 S5755-H48UM4Y2CZ (98012643-002)

Overview

Table 4-994 Basic information about the S5755-H48UM4Y2CZ

Item	Details
Description	S5755-H48UM4Y2CZ 5G bundle (48*10/100/1G/2.5/5GBASE-T ports, Optional RTU upgrade to 10G, 4*25GE SFP28, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	98012643-002
Model	S5755-H48UM4Y2CZ
First supported version	V600R024C10
Remarks	By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

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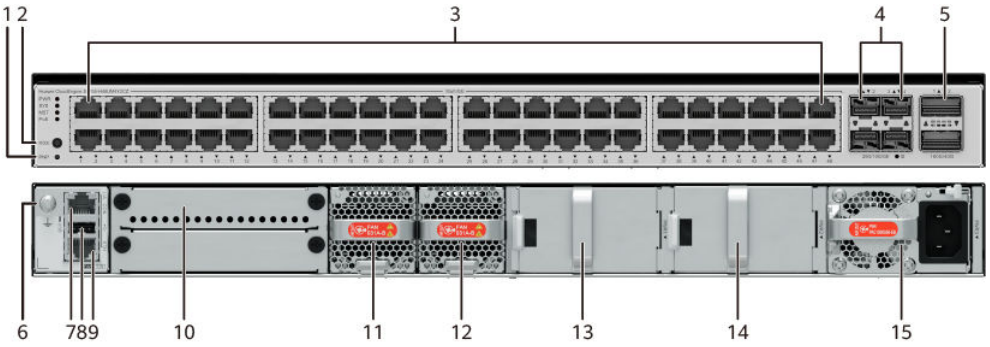
Components

Figure 4-353 S5755-H48UM4Y2CZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 1GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** • **HSIC-Y08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-995 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-996 Ports on the S5755-H48UM4Y2CZ

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s,100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 10 Mbit/s,100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
		active port-license command.	

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48UM4Y2CZ has similar indicators to those on the S5755-H24UM4Y2CZ. For details, see the S5755-H24UM4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-997 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	740 W*	• 802.3af (15.4 W per port): 48* • 802.3at (30 W per port): 24* • 802.3bt (60 W per port): 12* • 802.3bt (90 W per port): 8*
1000 W AC (110 V)	–	–	510 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
1000 W DC	–	–	740 W*	• 802.3af (15.4 W per port): 48* • 802.3at (30 W per port): 24* • 802.3bt (60 W per port): 12* • 802.3bt (90 W per port): 8*
600 W AC (220 V)	–	–	254 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1500 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1320 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 44 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 14
600 W AC (220 V)	600 W AC (220 V)	–	824 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	–	254 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1140 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 38 • 802.3bt (60 W per port): 19 • 802.3bt (90 W per port): 12
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2667 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 44 • 802.3bt (90 W per port): 29

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1394 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2040 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 34 • 802.3bt (90 W per port): 22
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2130 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 35 • 802.3bt (90 W per port): 23
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	539 W	• 802.3af (15.4 W per port): 35 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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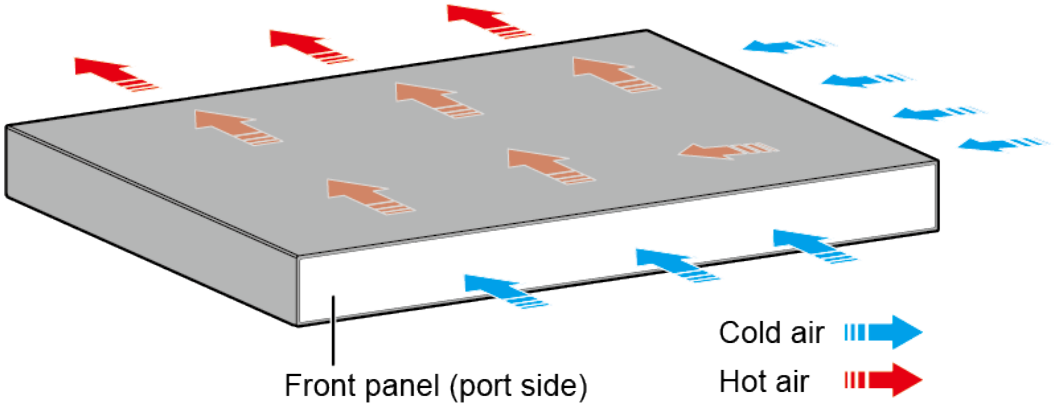
NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.
*: For details, refer to the specs website.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-998 Technical specifications of the S5755-H48UM4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.88 kg (15.17 lb)

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Item	Specification
Weight with packaging [kg(lb)]	8.63 kg (19.03 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 250 W (all 5GE electrical ports) • 292 W (all 10GE electrical ports)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: • 853.03 (all 5GE electrical ports) • 996.33 (all 10GE electrical ports)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 327 W (all 10GE electrical ports, dual AC power modules) • 297 W (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 359.1 W (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 3120 W (PoE: 2667 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 1115.76 (all 10GE electrical ports, dual AC power modules) • 1013.39 (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 1225.29 (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 10645.75 (PoE: 9100.1)
Static power consumption [W]	159 W
MTBF [years]	60.81 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 58.9 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 45.2 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.31 S5755-H48UM4Y2CZ (98012643-003)

Overview

Table 4-999 Basic information about the S5755-H48UM4Y2CZ

Item	Details
Description	S5755-H48UM4Y2CZ 10G bundle (48*10/100/1G/2.5/5/10GBASE-T ports, 4*25GE SFP28, 2*100GE QSFP28 ports, expansion card slot, PoE++, without power module)
Part Number	98012643-003
Model	S5755-H48UM4Y2CZ
First supported version	V600R024C10
Remarks	By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.

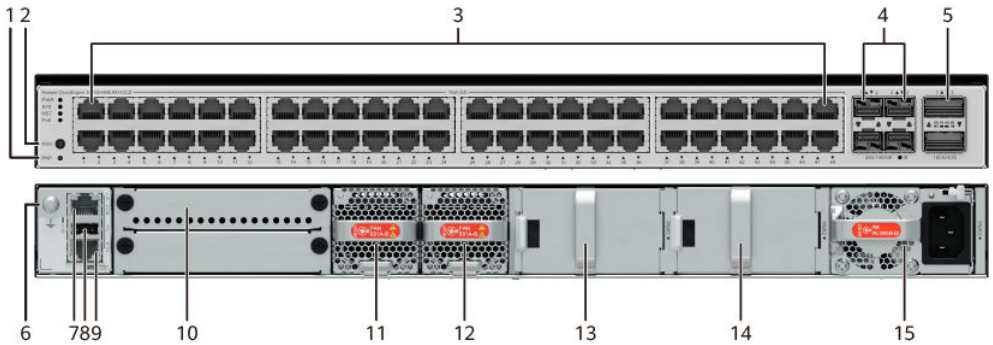
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-354 S5755-H48UM4Y2CZ appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 1GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** • **HSIC-Y08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-1000 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1001 Ports on the S5755-H48UM4Y2CZ

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s,100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48UM4Y2CZ has similar indicators to those on the S5755-H24UM4Y2CZ. For details, see the S5755-H24UM4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-1002 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	740 W*	• 802.3af (15.4 W per port): 48* • 802.3at (30 W per port): 24* • 802.3bt (60 W per port): 12* • 802.3bt (90 W per port): 8*
1000 W AC (110 V)	–	–	510 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
1000 W DC	–	–	740 W*	• 802.3af (15.4 W per port): 48* • 802.3at (30 W per port): 24* • 802.3bt (60 W per port): 12* • 802.3bt (90 W per port): 8*
600 W AC (220 V)	–	–	254 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1500 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1320 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 44 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 14
600 W AC (220 V)	600 W AC (220 V)	–	824 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	–	254 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1140 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 38 • 802.3bt (60 W per port): 19 • 802.3bt (90 W per port): 12
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2667 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 44 • 802.3bt (90 W per port): 29

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1394 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2040 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 34 • 802.3bt (90 W per port): 22
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2130 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 35 • 802.3bt (90 W per port): 23
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	539 W	• 802.3af (15.4 W per port): 35 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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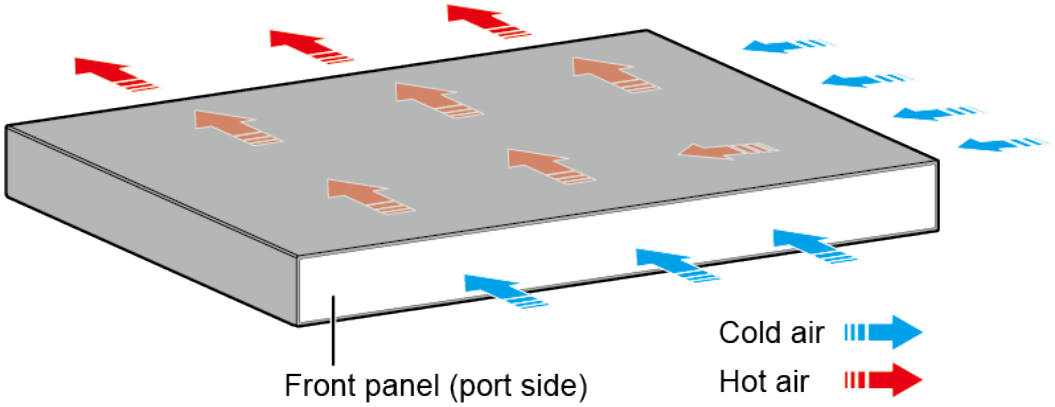
NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.
*: For details, refer to the specs website.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1003 Technical specifications of the S5755-H48UM4Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.88 kg (15.17 lb)

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Item	Specification
Weight with packaging [kg(lb)]	8.63 kg (19.03 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: - 292 W (all 10GE electrical ports)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: - 996.33 (all 10GE electrical ports)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 327 W (all 10GE electrical ports, dual AC power modules) • 297 W (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 359.1 W (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 3120 W (PoE: 2667 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 1115.76 (all 10GE electrical ports, dual AC power modules) • 1013.39 (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 1225.29 (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 10645.75 (PoE: 9100.1)
Static power consumption [W]	159 W
MTBF [years]	60.81 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 58.9 dBA

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Item	Specification
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 45.2 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.32 S5755-H48UM4Y2CZ-T

Overview

Table 4-1004 Basic information about the S5755-H48UM4Y2CZ-T

Item	Details
Description	S5755-H48UM4Y2CZ-T 2.5&10G bundle (36*10/100/1G/2.5GBASE-T ports, 12*10/100/1G/2.5/5/10GBASE-T ports, Optional RTU upgrade to 5/10G, 4*25GE SFP28, 2*100GE QSFP28 ports, expansion card slot,PoE++,HTM, without power module)
Part Number	98012647
Model	S5755-H48UM4Y2CZ-T
First supported version	V600R024C10
Remarks	By default, multi-GE ports can work at 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. An RTU license for increasing the rate of 12 ports from 2.5 Gbit/s to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase RTU licenses to increase the rate of the other 36 ports to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license and then run the active port-license command.

NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

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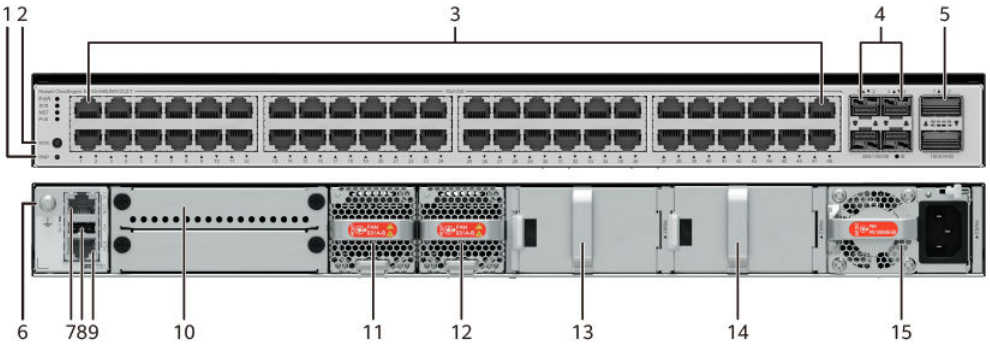
Components

Figure 4-355 S5755-H48UM4Y2CZ-T appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 1GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One console port	8	One USB port
9	One ETH management port	10	Card slot **NOTE** Applicable card: • **HSIC-X08S000** • **HSIC-Y08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

Ports

Table 4-1005 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	10M/100M/1000M	2.5GE	5GE	10GE
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1006 Ports on the S5755-H48UM4Y2CZ-T

Port	Connector Type	Description	Available Components
10M/100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 10M/100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 10 Mbit/s,100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 10 Mbit/s,100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU license for upgrading 12 x 2.5GE ports to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase RTU licenses to increase the rate of the other 36 ports to 5 Gbit/s or 10 Gbit/s. To increase the rate of these ports to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
		license, and then run the active port-license command.	

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Port	Connector Type	Description	Available Components
GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module into a port, run the port mode GE or port mode 25GE-GE command to configure the 25GE port to work at 1 Gbit/s. The four ports form a group, and their rate will be adjusted together. The port mode 25GE-GE commands are supported in V600R024C10 and later versions. After the port mode 25GE-GE command is run, the port supports 25GE/GE auto-sensing.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated stack cables (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5755-H48UM4Y2CZ-T has similar indicators to those on the S5755-H24UM4Y2CZ. For details, see the S5755-H24UM4Y2CZ.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-1007 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	600 W	• 802.3af (15.4 W per port): 38 • 802.3at (30 W per port): 20 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 6
1000 W AC (110 V)	–	–	510 W	• 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5
1000 W DC	–	–	600 W	• 802.3af (15.4 W per port): 38 • 802.3at (30 W per port): 20 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 6
600 W AC (220 V)	–	–	254 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1500 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 25 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1320 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 44 • 802.3bt (60 W per port): 22 • 802.3bt (90 W per port): 14
600 W AC (220 V)	600 W AC (220 V)	–	824 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 27 • 802.3bt (60 W per port): 13 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	–	254 W	• 802.3af (15.4 W per port): 16 • 802.3at (30 W per port): 8 • 802.3bt (60 W per port): 4 • 802.3bt (90 W per port): 2
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1140 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 38 • 802.3bt (60 W per port): 19 • 802.3bt (90 W per port): 12
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2667 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 44 • 802.3bt (90 W per port): 29

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1394 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 46 • 802.3bt (60 W per port): 23 • 802.3bt (90 W per port): 15
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2040 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 34 • 802.3bt (90 W per port): 22
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1680 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 28 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2130 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 35 • 802.3bt (90 W per port): 23
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	539 W	• 802.3af (15.4 W per port): 35 • 802.3at (30 W per port): 17 • 802.3bt (60 W per port): 8 • 802.3bt (90 W per port): 5

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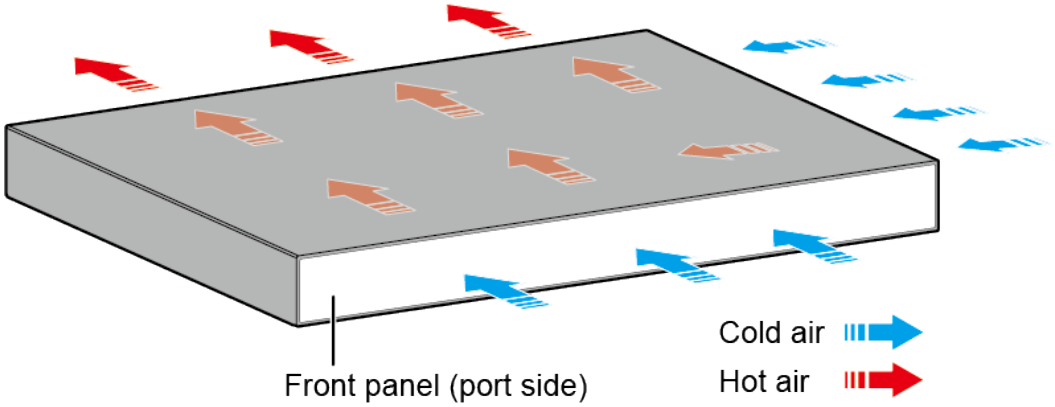
NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1008 Technical specifications of the S5755-H48UM4Y2CZ-T

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 660.0 mm x 550.0 mm (5.71 in. x 25.98 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.88 kg (15.17 lb)

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Item	Specification
Weight with packaging [kg(lb)]	8.63 kg (19.03 lb)
Typical power consumption [W]	30% traffic under the ATIS standard, dual power modules: • 246 W (36 x 2.5GE + 12 x 10GE electrical) • 292 W (all 10GE electrical ports)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard, dual power modules: • 839.38 (36 x 2.5GE + 12 x 10GE electrical) • 996.33 (all 10GE electrical ports)
Maximum power consumption [W]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 327 W (all 10GE electrical ports, dual AC power modules) • 297 W (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 359.1 W (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 3120 W (PoE: 2667 W)
Maximum heat dissipation [BTU/hour]	• 100% traffic under the ATIS standard, dual power modules, and without PoE: • 1115.76 (all 10GE electrical ports, dual AC power modules) • 1013.39 (all 10GE electrical ports, dual DC power modules) • High temperature of 45°C, 100% traffic under the ATIS standard, dual power modules, and without PoE: 1225.29 (all 10GE electrical ports) • Full PoE load, three 1000 W power modules: 10645.75 (PoE: 9100.1)
Static power consumption [W]	159 W
MTBF [years]	59.99 years
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 58.9 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 45.2 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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4.18.33 S5755-H24HB2Y2CZ

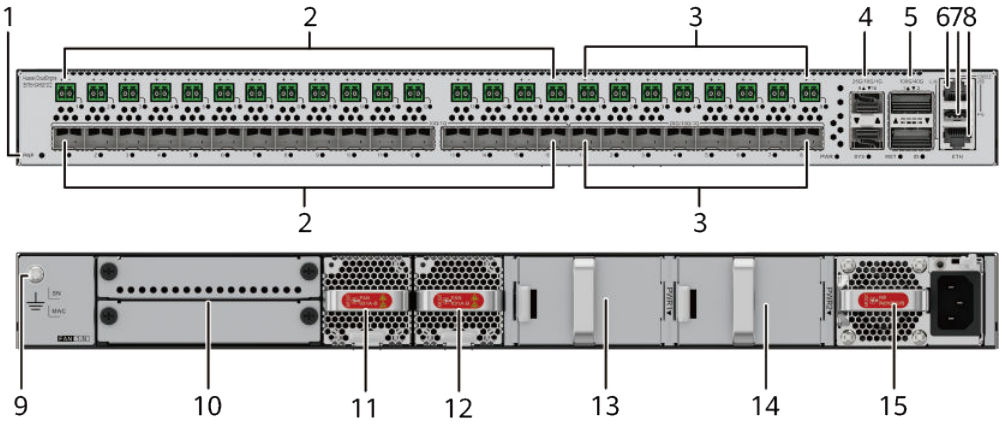
Overview

Table 4-1009 Basic information about the S5755-H24HB2Y2CZ

Item	Details
Description	S5755-H24HB2Y2CZ (24*bundled ports (16*10GE SFP+ ports, 8*25GE/10GE SFP28 ports, 24*PoE++ Phoenix connectors), 2*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, without power module)
Part Number	98012434
Model	S5755-H24HB2Y2CZ
First supported version	V600R024C00

Components

Figure 4-356 S5755-H24HB2Y2CZ appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	16 combinations of GE/2.5GE/10GE SFP+ ports and PoE++ ports **NOTE** A GE/2.5GE/10GE SFP+ port connects to the optical fiber in the hybrid cable to transmit data, and the PoE++ port uses a Phoenix connector to connect to the power wire in the hybrid cable to supply PoE power. On the device panel, a GE/2.5GE/10GE SFP+ port and the PoE++ port directly above it form a combination.
3	Eight combinations of GE/2.5GE/10GE/25GE SFP28 ports and PoE++ ports **NOTE** A GE/2.5GE/10GE/25GE SFP28 port connects to the optical fiber in the hybrid cable to transmit data, and the PoE++ port uses a Phoenix connector to connect to the power wire in the hybrid cable to supply PoE power. On the device panel, a GE/2.5GE/10GE/25GE SFP28 port and the PoE++ port directly above it form a combination.	4	Two GE/2.5GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	One console port
7	One USB port	8	One ETH management port
9	Ground screw **NOTE** It is used with a **ground cable**.	10	Card slot **NOTE** Applicable card: **HSIC-X08S000** **HSIC-Y08S000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-1010 Ports on the S5755-H24HB2Y2CZ

Port	Connector Type	Description	Available Components
GE/2.5GE/10GE SFP+ optical port	SFP+	A GE/2.5GE/10GE SFP+ optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. When a GE optical module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. The four ports form a group, and their rate will be adjusted together.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. Before installing a GE optical module or GE copper module on a port, run the port mode GE command to configure the port to work at 1 Gbit/s. Ports 1 to 4, 5 to 8, and 9 and 10 form different groups, and the rate of ports in a group will be adjusted together.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m**

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Port	Connector Type	Description	Available Components
			SFP28 AOC cables • **0.5 m and 1.5 m SFP28 dedicated stack cables (V600R024C10 and later versions, only for zero-configuration stacking)**
PoE++ port	1x2-Pin Phoenix Connector	The S5755-H24HB2Y2CZ is an optical/electrical hybrid switch. The switch provides 24 1X2 phoenix ports and 24 PoE++ ports. One PoE++ port and one FE/GE/2.5GE/10GE SFP+ Ethernet optical port or one FE/GE/2.5GE/10GE/25GE SFP28 Ethernet optical port can be used together.	**Second-generation hybrid cable** **NOTE** During installation, it is recommended that the four optical ports and four phoenix terminals be bound with cable ties to prevent cable removal due to misoperations.

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-357 Indicators on the switch

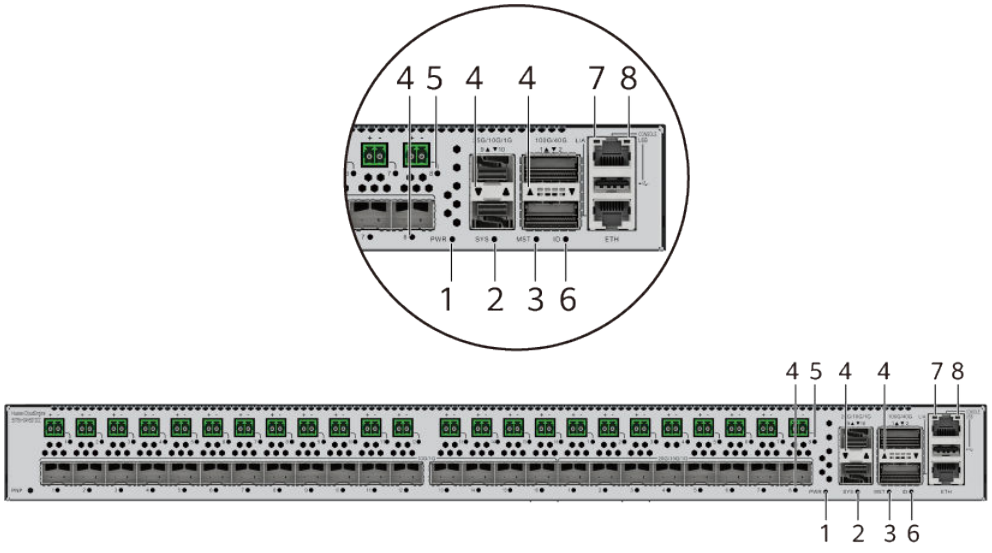

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Table 4-1011 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).
3	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
4	-	Service port indicator (one indicator for each port)			Meanings of service port indicators vary in different modes. For details, see **Table 4-1012**.
5	-	PoE++ port indicator	-	Off	The port is not connected or does not provide PoE power supply.
			Green	Steady on	The PoE power supply on the port is normal.

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No.	Indicator	Name	Color	Status	Description
6	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
7	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-1012 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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Display Mode	Color	Status	Description
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• GE/2.5GE/10GE SFP+ port: The port is operating at 1 Gbit/s or 2.5 Gbit/s. • GE/2.5GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• GE/2.5GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • GE/2.5GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-1013 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	738 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	648 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W DC	–	–	738 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
600 W AC (220 V)	–	–	399 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	–	–	114 W	• 802.3af (15.4 W per port): 7 • 802.3at (30 W per port): 3 • 802.3bt (60 W per port): 1 • 802.3bt (90 W per port): 1
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1638 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1458 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	600 W AC (220 V)	–	969 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 16 • 802.3bt (90 W per port): 10
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1278 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14
600 W AC (110 V)	600 W AC (110 V)	–	399 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1539 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2178 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1818 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 20
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	684 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7

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NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

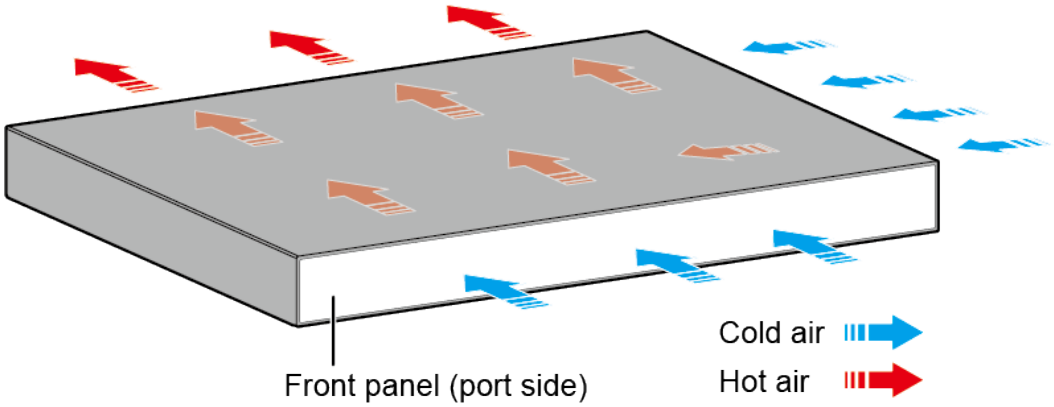
When a hybrid optical-electrical port is used for PoE power supply, the power supply capability and distance vary according to hybrid cables with different cable diameters. You can use the **Central Switch-to-RU Cable Length Calculation Tool** to calculate the power supply distance of the hybrid cable in different scenarios.

NOTE

- The hybrid switch uses hybrid cables to connect to and supply power to APs or remote units that can receive power. (For details about the AP models to which hybrid cables can supply power, see the WLAN AP product documentation.)
- The hybrid switch cannot be connected to devices other than remote units or APs using hybrid cables.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-1014 Technical specifications of the S5755-H24HB2Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.94 kg (13.1 lb)
Weight with packaging [kg(lb)]	8.43 kg (18.58 lb)
Typical power consumption [W]	30% traffic under the ATIS standard and dual power modules: • 138 W (with two 1000 W AC power modules) • 145 W (with two 1000 W DC power modules)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard and dual power modules: • 471 (with two 1000 W AC power modules) • 495 (with two 1000 W DC power modules)

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Item	Specification
Maximum power consumption [W]	100% traffic under the ATIS standard and dual power modules: ● 152 W (with two 1000 W AC power modules) ● 158 W (with two 1000 W DC power modules) Full PoE load and three power modules: ● 2566 W (PoE: 2268 W, with three 1000 W AC power modules) ● 2648 W (PoE: 2268 W, with three 1000 W DC power modules)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard and dual power modules: ● 519 (with two 1000 W AC power modules) ● 539 (with two 1000 W DC power modules) Full PoE load and three power modules: ● 8759 (PoE: 7738, with three 1000 W AC power modules) ● 9039 (PoE: 7738, with three 1000 W DC power modules)
Static power consumption [W]	85 W
MTBF [years]	55.44 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.10 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 39.1 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)

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Item	Specification
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.19 S5755E-H

4.19.1 S5755E-H24HB2Y2CZ

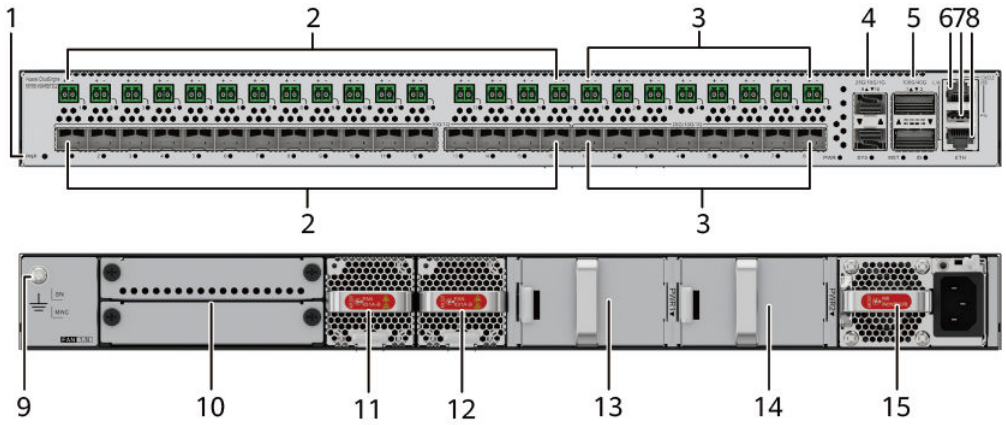
Overview

Table 4-1015 Basic information about the S5755E-H24HB2Y2CZ

Item	Details
Description	S5755E-H24HB2Y2CZ (24*bundled ports (16*10GE SFP+ ports, 8*25GE/10GE SFP28 ports, 24*PoE++ Phoenix connectors), 2*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, without power module)
Part Number	98012862
Model	S5755E-H24HB2Y2CZ
First supported version	V600R024C10

Components

Figure 4-358 S5755E-H24HB2Y2CZ appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	16 combinations of GE/2.5GE/10GE SFP+ ports and PoE++ ports **NOTE** A GE/2.5GE/10GE SFP+ port connects to the optical fiber in the hybrid cable to transmit data, and the PoE++ port uses a Phoenix connector to connect to the power wire in the hybrid cable to supply PoE power. On the device panel, a GE/2.5GE/10GE SFP+ port and the PoE++ port directly above it form a combination.
3	Eight combinations of GE/2.5GE/10GE/25GE SFP28 ports and PoE++ ports **NOTE** A GE/2.5GE/10GE/25GE SFP28 port connects to the optical fiber in the hybrid cable to transmit data, and the PoE++ port uses a Phoenix connector to connect to the power wire in the hybrid cable to supply PoE power. On the device panel, a GE/2.5GE/10GE/25GE SFP28 port and the PoE++ port directly above it form a combination.	4	Two GE/2.5GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	One console port
7	One USB port	8	One ETH management port
9	Ground screw **NOTE** It is used with a **ground cable**.	10	Card slot **NOTE** Applicable card: **HSIC-X08S000** **HSIC-Y08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**
15	Power module slot 3 **NOTE** Applicable power modules: • **PAC600S56-EB** • **PAC1000S56-EB** • **PDC1000S56-EB**	-	-

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Ports

Table 4-1016 Ports on the S5755E-H24HB2Y2CZ

Port	Connector Type	Description	Available Components
GE/2.5GE/10GE SFP+ optical port	SFP+	A GE/2.5GE/10GE SFP+ optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. When a GE optical module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. The four ports form a group, and their rate will be adjusted together.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5G command to configure the port to work at 2.5 Gbit/s. Before installing a GE optical module or GE copper module on a port, run the port mode GE command to configure the port to work at 1 Gbit/s. Ports 1 to 4, 5 to 8, and 9 and 10 form different groups, and the rate of ports in a group will be adjusted together.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m**

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Port	Connector Type	Description	Available Components
			SFP28 AOC cables • 0.5 m and 1.5 m SFP28 dedicated stack cables (only for zero-configuration stacking)
PoE++ port	1x2-Pin Phoenix Connector	The S5755E-H24HB2Y2CZ is an optical/electrical hybrid switch. The switch provides 24 1X2 phoenix ports and 24 PoE++ ports. One PoE++ port and one FE/GE/2.5GE/10GE SFP+ Ethernet optical port or one FE/GE/2.5GE/10GE/25GE SFP28 Ethernet optical port can be used together.	Second-generation hybrid cable **NOTE** During installation, it is recommended that the four optical ports and four phoenix terminals be bound with cable ties to prevent cable removal due to misoperations.

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-359 Indicators on the switch

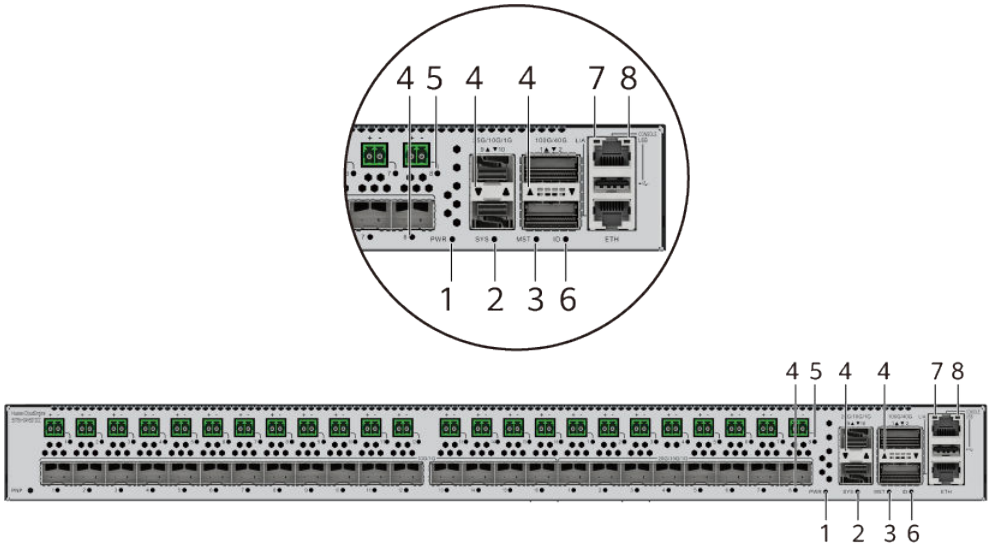

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Table 4-1017 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).
3	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
4	-	Service port indicator (one indicator for each port)			Meanings of service port indicators vary in different modes. For details, see **Table 4-1018**.
5	-	PoE++ port indicator	-	Off	The port is not connected or does not provide PoE power supply.
			Green	Steady on	The PoE power supply on the port is normal.

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No.	Indicator	Name	Color	Status	Description
6	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
7	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-1018 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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Display Mode	Color	Status	Description
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• GE/2.5GE/10GE SFP+ port: The port is operating at 1 Gbit/s or 2.5 Gbit/s. • GE/2.5GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• GE/2.5GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • GE/2.5GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch is a PoE switch and supports three power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-1019 Power supply configurations

Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V)	–	–	738 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V)	–	–	648 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W DC	–	–	738 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
600 W AC (220 V)	–	–	399 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
600 W AC (110 V)	–	–	114 W	• 802.3af (15.4 W per port): 7 • 802.3at (30 W per port): 3 • 802.3bt (60 W per port): 1 • 802.3bt (90 W per port): 1
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	–	1638 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	–	1458 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	600 W AC (220 V)	–	969 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 16 • 802.3bt (90 W per port): 10
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	–	1278 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14
600 W AC (110 V)	600 W AC (110 V)	–	399 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 13 • 802.3bt (60 W per port): 6 • 802.3bt (90 W per port): 4
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24

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Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	600 W AC (220 V)	1539 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 17
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	2178 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	600 W AC (220 V)	1818 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 20
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	2268 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 24
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	684 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7

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NOTE

When a switch has multiple power modules installed, the multiple power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

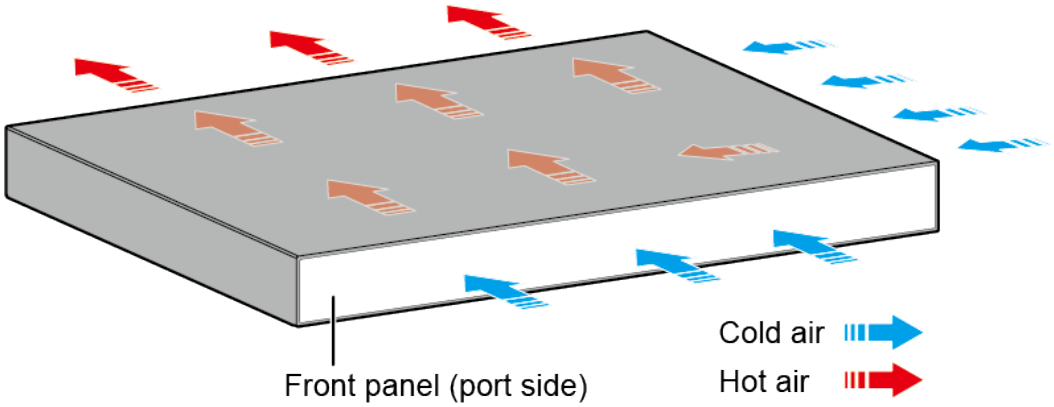
When a hybrid optical-electrical port is used for PoE power supply, the power supply capability and distance vary according to hybrid cables with different cable diameters. You can use the **Central Switch-to-RU Cable Length Calculation Tool** to calculate the power supply distance of the hybrid cable in different scenarios.

NOTE

- The hybrid switch uses hybrid cables to connect to and supply power to APs or remote units that can receive power. (For details about the AP models to which hybrid cables can supply power, see the WLAN AP product documentation.)
- The hybrid switch cannot be connected to devices other than remote units or APs using hybrid cables.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-1020 Technical specifications of the S5755E-H24HB2Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.94 kg (13.1 lb)
Weight with packaging [kg(lb)]	8.43 kg (18.58 lb)
Typical power consumption [W]	30% traffic under the ATIS standard and dual power modules: • 138 W (with two 1000 W AC power modules) • 145 W (with two 1000 W DC power modules)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard and dual power modules: • 471 (with two 1000 W AC power modules) • 495 (with two 1000 W DC power modules)

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Item	Specification
Maximum power consumption [W]	100% traffic under the ATIS standard and dual power modules: ● 152 W (with two 1000 W AC power modules) ● 158 W (with two 1000 W DC power modules) Full PoE load and three power modules: ● 2566 W (PoE: 2268 W, with three 1000 W AC power modules) ● 2648 W (PoE: 2268 W, with three 1000 W DC power modules)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard and dual power modules: ● 519 (with two 1000 W AC power modules) ● 539 (with two 1000 W DC power modules) Full PoE load and three power modules: ● 8759 (PoE: 7738, with three 1000 W AC power modules) ● 9039 (PoE: 7738, with three 1000 W DC power modules)
Static power consumption [W]	85 W
MTBF [years]	55.44 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	30% PoE load: 52.10 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	30% PoE load: 39.1 dBA
Number of card slots	1
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1 Pluggable AC and DC power modules can be used together in the same switch.

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)

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Item	Specification
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.20 S5732-H-V2

4.20.1 S5732-H24S4X6QZ-V2

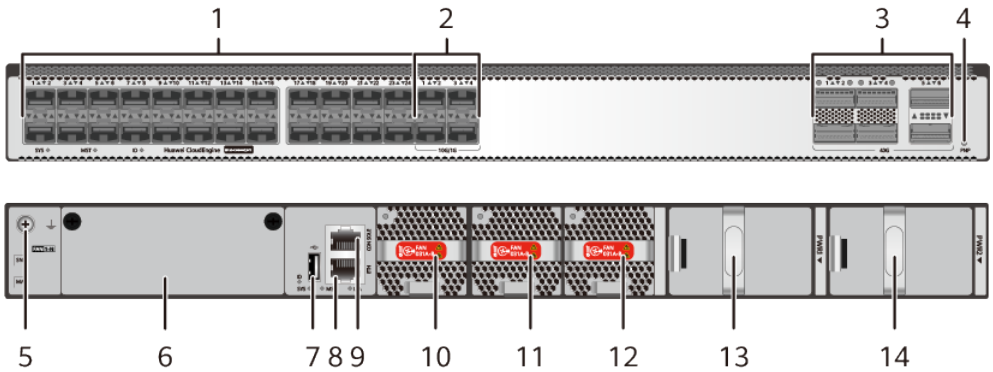
Overview

Table 4-1021 Basic information about the S5732-H24S4X6QZ-V2

Item	Details
Description	S5732-H24S4X6QZ-V2 (24*GE SFP ports, 4*10GE SFP+ ports, 6*40GE QSFP ports, without power module)
Part Number	02354VBL
Model	S5732-H24S4X6QZ-V2
First supported version	V600R022C00

Components

Figure 4-360 S5732-H24S4X6QZ-V2 appearance



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1	Twenty-four 100/1000BASE-X ports **NOTE** In V600R024C10 and later versions, a license can be loaded to increase the port rate to 10 Gbit/s.	2	Four 10GE SFP+ optical ports
3	Six 40GE QSFP+ optical ports	4	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
5	Ground screw **NOTE** It is used with a **ground cable**.	6	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
7	One USB port	8	One ETH management port
9	One console port	10	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 3 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	14	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**

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Ports

Table 4-1022 Ports on the S5732-H24S4X6QZ-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100 Mbit/s or 1000 Mbit/s. In V600R024C10 and later versions, a license can be loaded to increase the port rate to 10 Gbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (need a license loaded)** • **10GE-CWDM SFP+ optical modules (need a license loaded)** • **10GE-DWDM SFP+ optical modules (need a license loaded)** • **10GE SFP+ copper modules (need a license loaded)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (need a**

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Port	Connector Type	Description	Available Components
			license loaded) • **3 m and 10 m SFP+ AOC cables (need a license loaded)**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables**

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Port	Connector Type	Description	Available Components
			• 0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
40GE QSFP+ optical port	QSFP+	A 40GE QSFP+ optical port sends and receives service data at 40 Gbit/s. In V600R023C10 and later versions, the last two 40GE ports can each be split into four 10GE ports using a command.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions) • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-361 Indicators on the switch

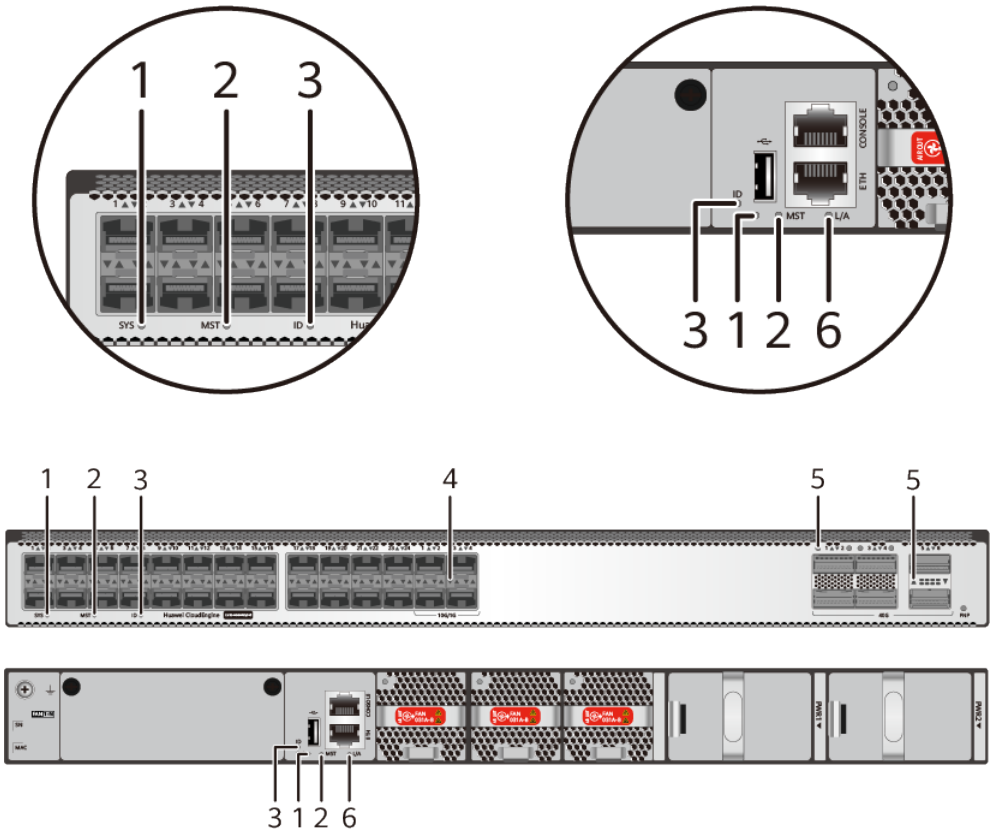

Table 4-1023 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).

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No.	Indicator	Name	Color	Status	Description
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
4	-	Service port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-1024** and **Table 4-1025**.
5	-	Service port indicator (one indicator for each port) **NOTE** Each optical port has one single-color indicator. Arrowheads show the positions of ports.			
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.

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Table 4-1024 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	Green	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	Yellow	Off	The port is not sending or receiving data.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Table 4-1025 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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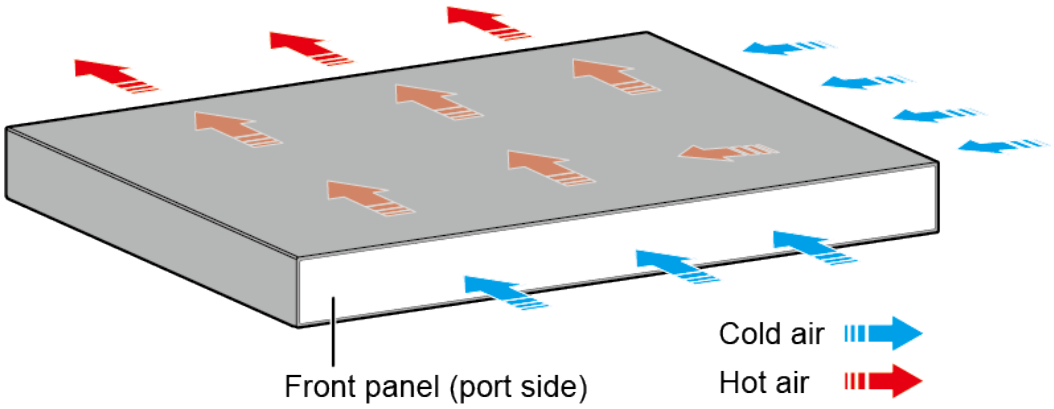
Display Mode	Color	Status	Description
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Blinking	40GE QSFP+ port: The port is operating at 40 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-1026 Technical specifications of the S5732-H24S4X6QZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.06 kg (15.56 lb)
Weight with packaging [kg(lb)]	10.04 kg (22.13 lb)
Typical power consumption [W]	174 W
Typical heat dissipation [BTU/hour]	593.71 BTU/hour
Maximum power consumption [W]	224 W
Maximum heat dissipation [BTU/hour]	764.31 BTU/hour
Static power consumption [W]	133 W
MTBF [years]	52.24 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3

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Item	Specification
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45

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Item	Specification
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.2 S5732-H24S4X6QZ-TV2

Overview

Table 4-1027 Basic information about the S5732-H24S4X6QZ-TV2

Item	Details
Description	S5732-H24S4X6QZ-TV2 (24*GE SFP ports, 4*10GE SFP+ ports, 6*40GE QSFP ports, HTM, without power module)
Part Number	02354VCV
Model	S5732-H24S4X6QZ-TV2

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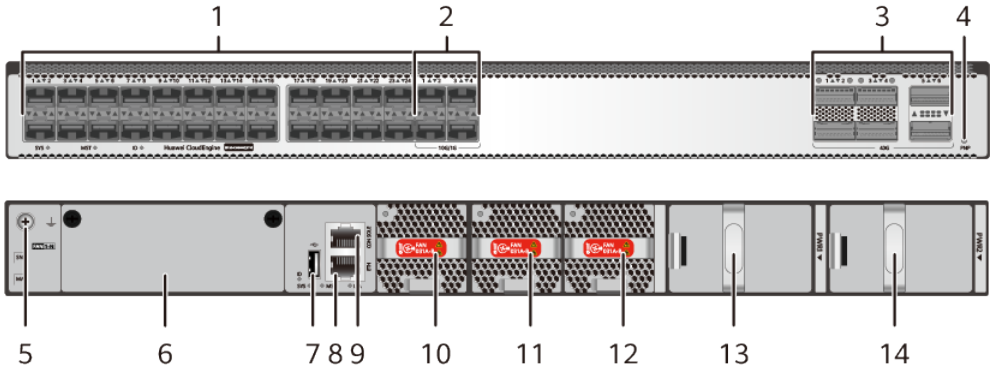
Item	Details
First supported version	V600R022C00

Components

Figure 4-362 S5732-H24S4X6QZ-TV2 appearance



1	Twenty-four 100/1000BASE-X ports **NOTE** In V600R024C10 and later versions, a license can be loaded to increase the port rate to 10 Gbit/s.	2	Four 10GE SFP+ optical ports
3	Six 40GE QSFP+ optical ports	4	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
5	Ground screw **NOTE** It is used with a **ground cable**.	6	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
7	One USB port	8	One ETH management port

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9	One console port	10	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 3 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	14	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**

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Ports

Table 4-1028 Ports on the S5732-H24S4X6QZ-TV2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100 Mbit/s or 1000 Mbit/s. In V600R024C10 and later versions, a license can be loaded to increase the port rate to 10 Gbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules (need a license loaded)** • **10GE-CWDM SFP+ optical modules (need a license loaded)** • **10GE-DWDM SFP+ optical modules (need a license loaded)** • **10GE SFP+ copper modules (need a license loaded)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (need a**

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Port	Connector Type	Description	Available Components
			license loaded) • **3 m and 10 m SFP+ AOC cables (need a license loaded)**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables**

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Port	Connector Type	Description	Available Components
			• 0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
40GE QSFP+ optical port	QSFP+	A 40GE QSFP+ optical port sends and receives service data at 40 Gbit/s. In V600R023C10 and later versions, the last two 40GE ports can each be split into four 10GE ports using a command.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions) • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-363 Indicators on the switch

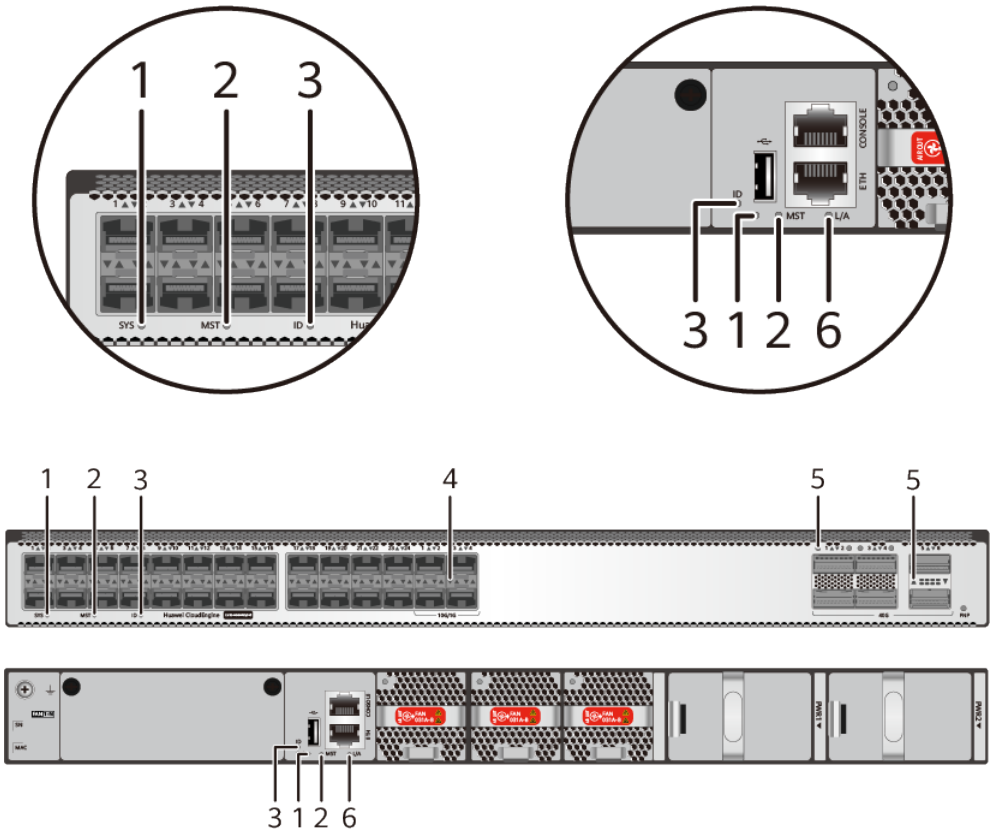

Table 4-1029 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).

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No.	Indicator	Name	Color	Status	Description
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
4	-	Service port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-1030** and **Table 4-1031**.
5	-	Service port indicator (one indicator for each port) **NOTE** Each optical port has one single-color indicator. Arrowheads show the positions of ports.			
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.

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Table 4-1030 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	Green	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	Yellow	Off	The port is not sending or receiving data.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Table 4-1031 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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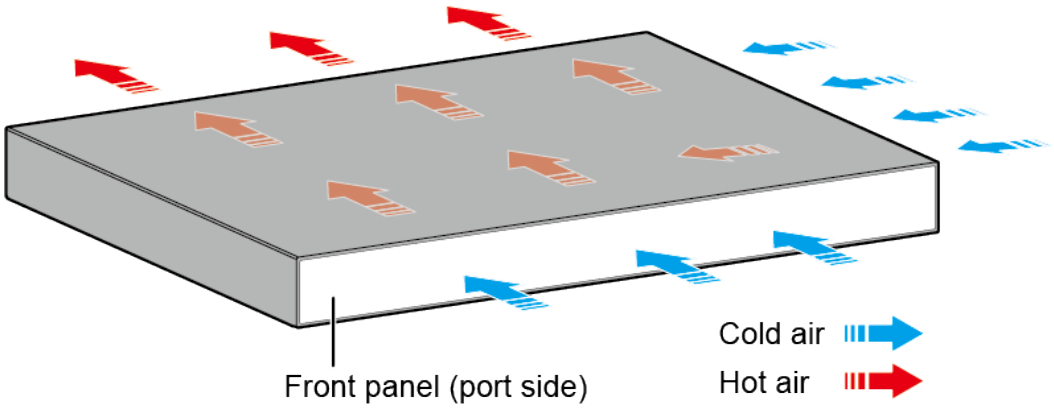
Display Mode	Color	Status	Description
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Blinking	40GE QSFP+ port: The port is operating at 40 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-1032 Technical specifications of the S5732-H24S4X6QZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.06 kg (15.56 lb)
Weight with packaging [kg(lb)]	10.04 kg (22.13 lb)
Typical power consumption [W]	174 W
Typical heat dissipation [BTU/hour]	593.71 BTU/hour
Maximum power consumption [W]	224 W
Maximum heat dissipation [BTU/hour]	764.31 BTU/hour
Static power consumption [W]	133 W
MTBF [years]	52.24 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3

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Item	Specification
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45

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Item	Specification
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.3 S5732-H24UM4Y2CZ-V2 (02354VCM)

Overview

Table 4-1033 Basic information about the S5732-H24UM4Y2CZ-V2

Item	Details
Description	S5732-H24UM4Y2CZ-V2 2.5G bundle (24*100M/1/2.5G Ethernet ports, optional RTU upgrade to 5/10G, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, without power module)
Part Number	02354VCM

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Item	Details
Model	S5732-H24UM4Y2CZ-V2
First supported version	V600R022C00
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase an RTU license to increase the port rate to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

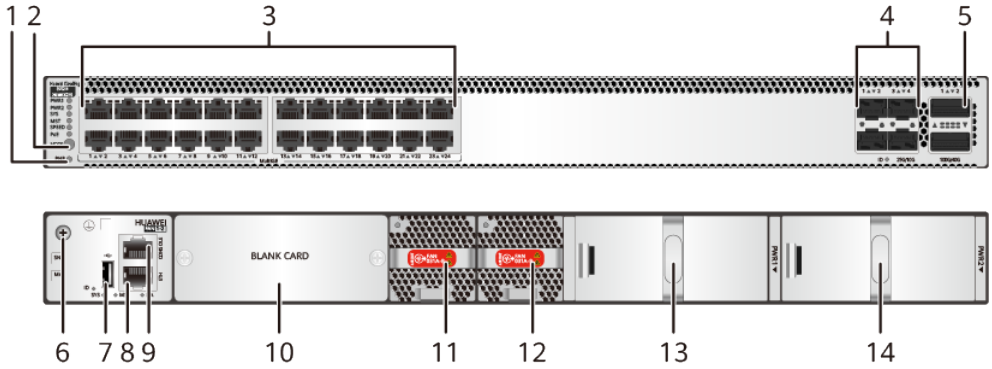
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-364 S5732-H24UM4Y2CZ-V2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button

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3	Twenty-four 100M/1000M/ 2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

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Ports

Table 4-1034 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1035 Ports on the S5732-H24UM4Y2CZ-V2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase an RTU license to increase the port rate to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 100GE QSFP28 optical modules • 1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP28 to QSFP28 AOC cable • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-365 Indicators on the switch

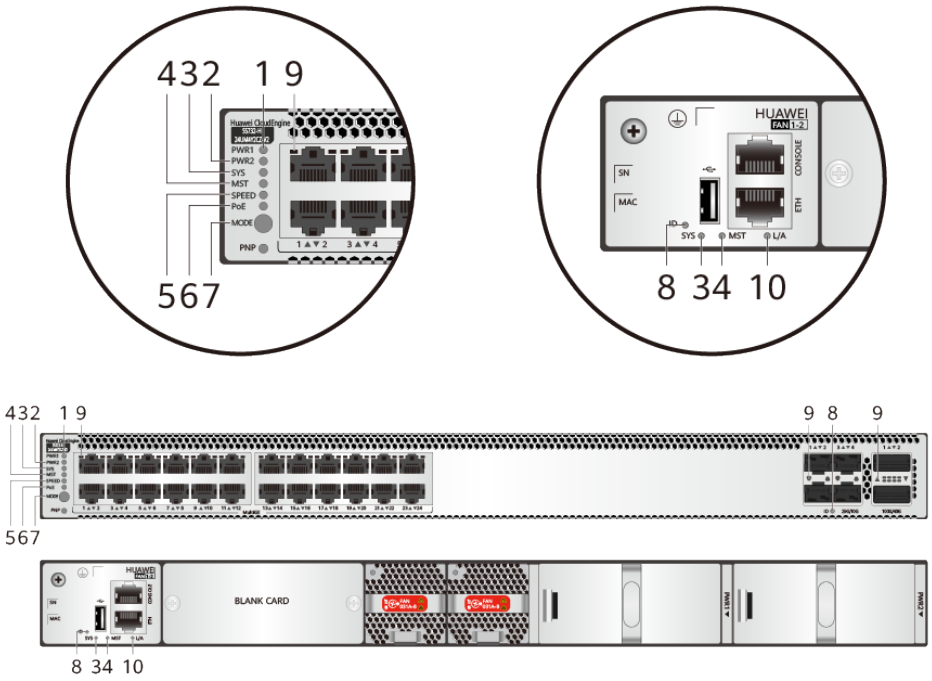

Table 4-1036 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Power module indicator	-	Off	No power module is available in power module slot 1, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 1 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 1: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.

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No.	Indicator	Name	Color	Status	Description
2	PWR 2	Power module indicator	-	Off	No power module is available in power module slot 2, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 2 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 2: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
5	SPEED	Speed indicator	-	Off	The speed mode is not selected.
			Green	Steady on	The speed mode is selected, and service port indicators show the speed of each port.
6	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
7	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the speed mode and show the speed of each service port. • When you press this button a third time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a fourth time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the SPEED and PoE indicators are off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
9	-	Service port indicator (one indicator for each port)	Electrical port: The indicator in the upper left corner of a port indicates the indicator of a port at the top, and the indicator in the upper right corner indicates the indicator of a port at the bottom. Optical port: Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-1037**.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-1037 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	Green	Off	Port indicators do not show the stack ID of the switch.
		Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
		Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
Speed mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s or 1000 Mbit/s. 10GE/25GE SFP28 port: The port is operating at 10 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. 10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

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Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-1038 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	737 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	642 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1687 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1497 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
600 W AC (220 V)	600 W AC (220 V)	927 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1307 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

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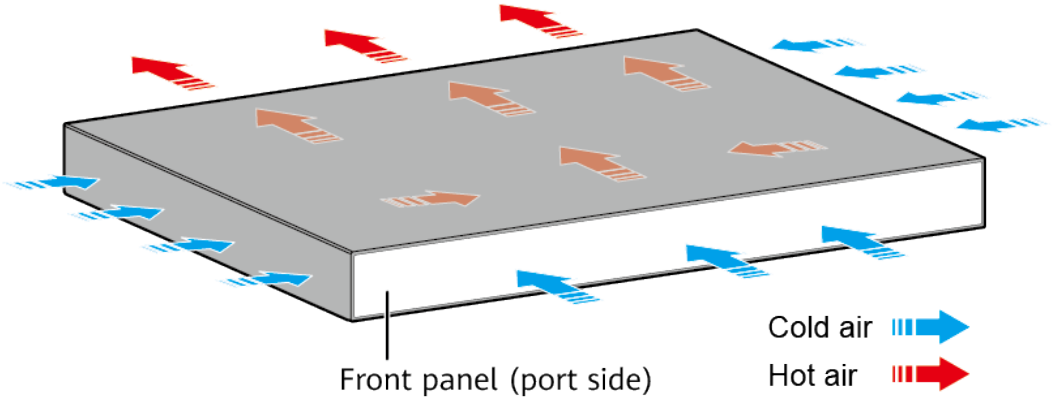
Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1039 Technical specifications of the S5732-H24UM4Y2CZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.94 kg (15.30 lb)
Weight with packaging [kg(lb)]	8.88 kg (19.58 lb)
Typical power consumption [W]	161 W
Typical heat dissipation [BTU/hour]	549.35 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 241 W (without cards) • Full PoE load: 2011 W (PoE: 1687 W, without cards)
Maximum heat dissipation [BTU/hour]	• Without PoE: 822.32 (without cards) • Full PoE load: 6861.73 (without cards)
Static power consumption [W]	112 W
MTBF [years]	51.4 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.4 S5732-H24UM4Y2CZ-V2 (02354VCM-001)

Overview

Table 4-1040 Basic information about the S5732-H24UM4Y2CZ-V2

Item	Details
Description	S5732-H24UM4Y2CZ-V2 5G bundle (24*100M/1/2.5/5G Ethernet ports, optional RTU upgrade to 10G, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, without power module)
Part Number	02354VCM-001
Model	S5732-H24UM4Y2CZ-V2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 24 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

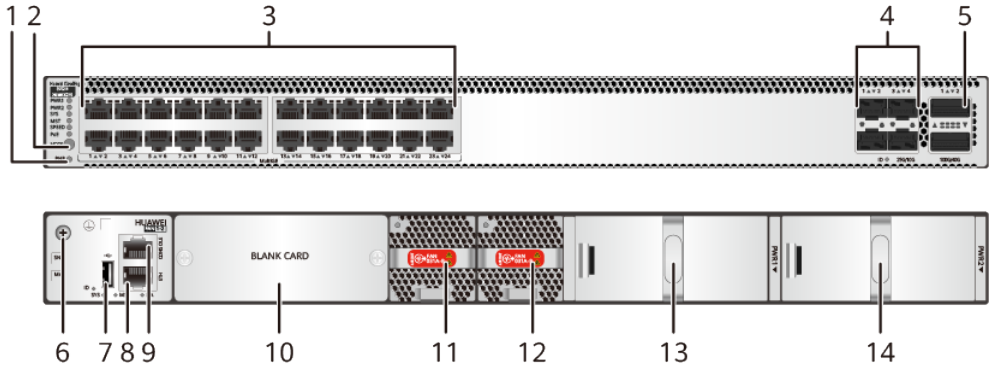
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-366 S5732-H24UM4Y2CZ-V2 appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

Ports

Table 4-1041 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1042 Ports on the S5732-H24UM4Y2CZ-V2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 24 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 100GE QSFP28 optical modules • 1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP28 to QSFP28 AOC cable • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-367 Indicators on the switch

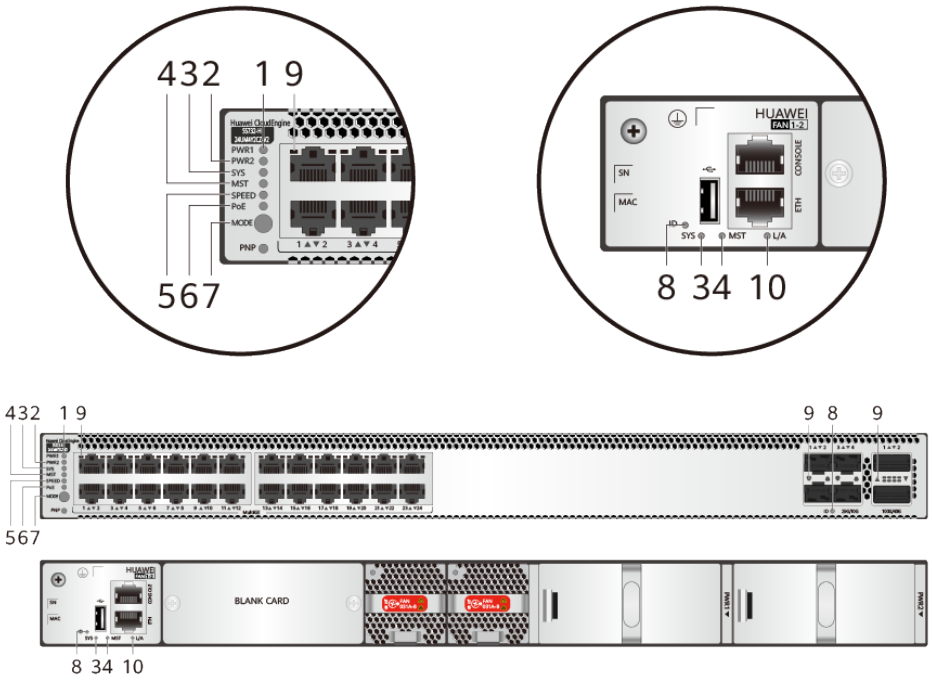

Table 4-1043 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Power module indicator	-	Off	No power module is available in power module slot 1, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 1 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 1: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.

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No.	Indicator	Name	Color	Status	Description
2	PWR 2	Power module indicator	-	Off	No power module is available in power module slot 2, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 2 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 2: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
5	SPEED	Speed indicator	-	Off	The speed mode is not selected.
			Green	Steady on	The speed mode is selected, and service port indicators show the speed of each port.
6	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
7	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the speed mode and show the speed of each service port. • When you press this button a third time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a fourth time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the SPEED and PoE indicators are off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
9	-	Service port indicator (one indicator for each port)	Electrical port: The indicator in the upper left corner of a port indicates the indicator of a port at the top, and the indicator in the upper right corner indicates the indicator of a port at the bottom. Optical port: Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-1044**.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-1044 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	Green	Off	Port indicators do not show the stack ID of the switch.
		Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
		Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
Speed mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s or 1000 Mbit/s. 10GE/25GE SFP28 port: The port is operating at 10 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. 10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

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Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-1045 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	737 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	642 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1687 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1497 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
600 W AC (220 V)	600 W AC (220 V)	927 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1307 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

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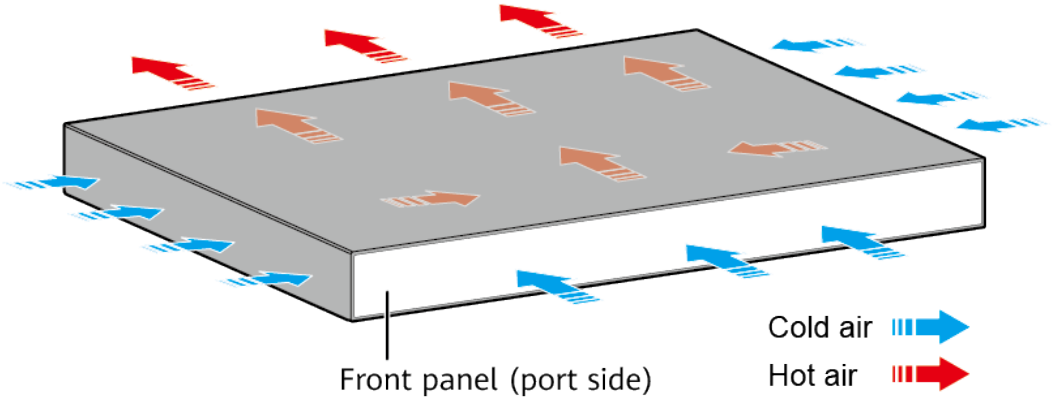
Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1046 Technical specifications of the S5732-H24UM4Y2CZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.94 kg (15.30 lb)
Weight with packaging [kg(lb)]	8.88 kg (19.58 lb)
Typical power consumption [W]	161 W
Typical heat dissipation [BTU/hour]	549.35 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 241 W (without cards) • Full PoE load: 2011 W (PoE: 1687 W, without cards)
Maximum heat dissipation [BTU/hour]	• Without PoE: 822.32 (without cards) • Full PoE load: 6861.73 (without cards)
Static power consumption [W]	112 W
MTBF [years]	51.4 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.5 S5732-H24UM4Y2CZ-V2 (02354VCM-002)

Overview

Table 4-1047 Basic information about the S5732-H24UM4Y2CZ-V2

Item	Details
Description	S5732-H24UM4Y2CZ-V2 10G bundle (24*100M/1/2.5/5/10G Ethernet ports, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, without power module)
Part Number	02354VCM-002
Model	S5732-H24UM4Y2CZ-V2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s, and the RTU licenses for increasing the rate of 24 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.

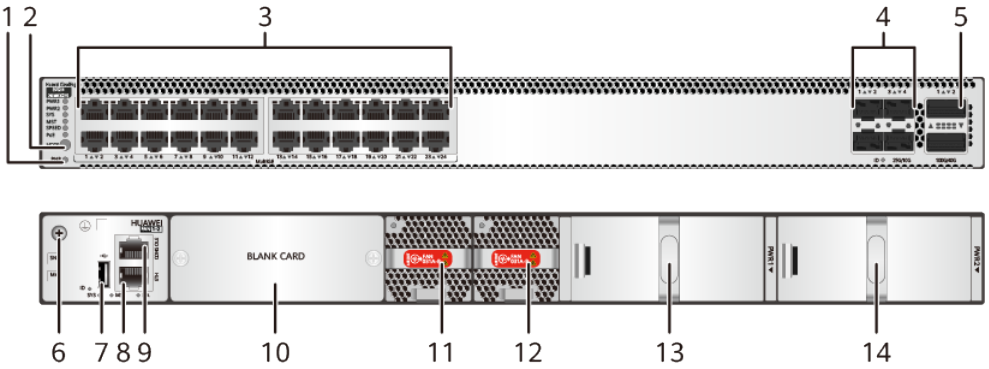
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-368 S5732-H24UM4Y2CZ-V2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

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Ports

Table 4-1048 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1049 Ports on the S5732-H24UM4Y2CZ-V2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s, and the RTU licenses for increasing the rate of 24 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-369 Indicators on the switch

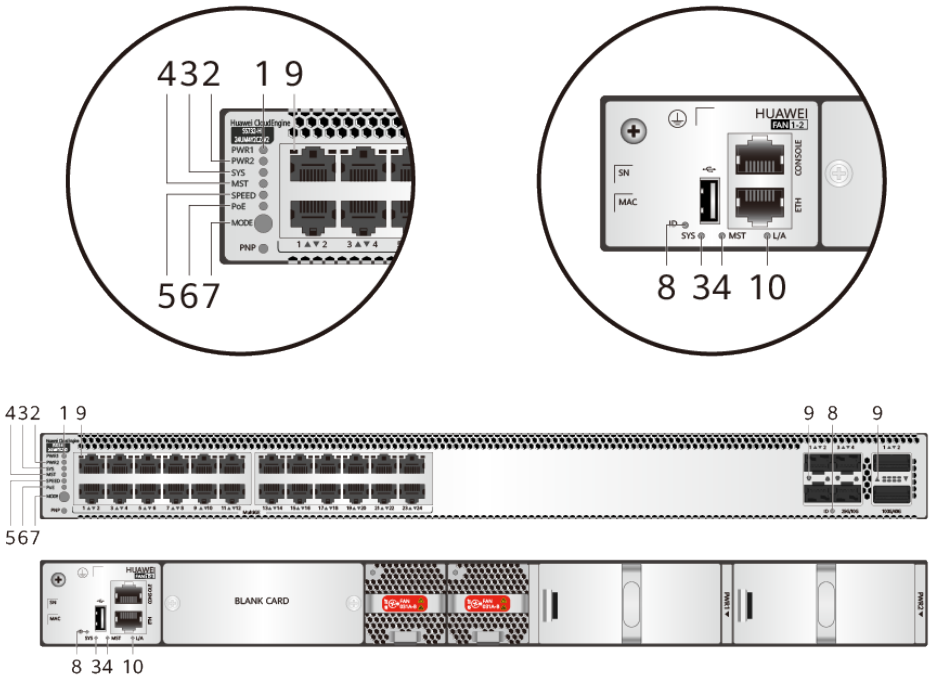

Table 4-1050 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Power module indicator	-	Off	No power module is available in power module slot 1, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 1 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 1: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.

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No.	Indicator	Name	Color	Status	Description
2	PWR 2	Power module indicator	-	Off	No power module is available in power module slot 2, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 2 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 2: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
5	SPEED	Speed indicator	-	Off	The speed mode is not selected.
			Green	Steady on	The speed mode is selected, and service port indicators show the speed of each port.
6	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
7	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the speed mode and show the speed of each service port. • When you press this button a third time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a fourth time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the SPEED and PoE indicators are off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
9	-	Service port indicator (one indicator for each port)	Electrical port: The indicator in the upper left corner of a port indicates the indicator of a port at the top, and the indicator in the upper right corner indicates the indicator of a port at the bottom. Optical port: Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-1051**.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-1051 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	Green	Off	Port indicators do not show the stack ID of the switch.
		Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
		Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
Speed mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s or 1000 Mbit/s. 10GE/25GE SFP28 port: The port is operating at 10 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. 10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

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Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-1052 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	737 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	642 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1687 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1497 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
600 W AC (220 V)	600 W AC (220 V)	927 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1307 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

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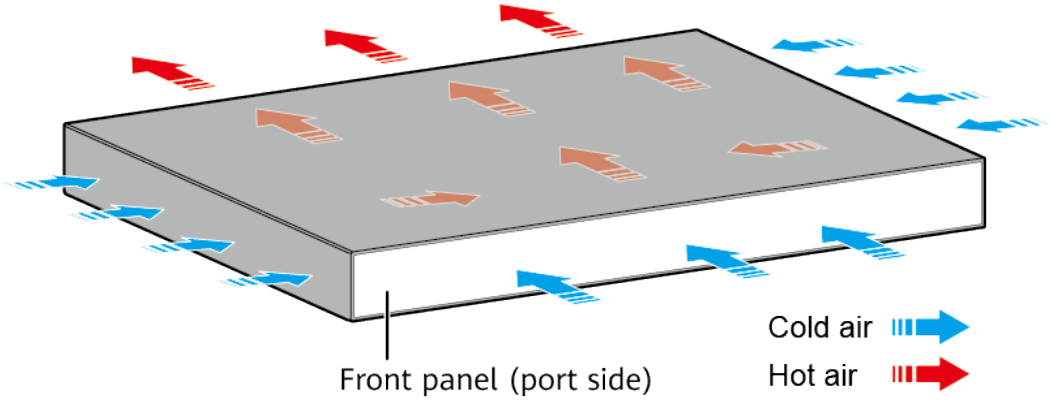
Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1053 Technical specifications of the S5732-H24UM4Y2CZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.94 kg (15.30 lb)
Weight with packaging [kg(lb)]	8.88 kg (19.58 lb)
Typical power consumption [W]	161 W
Typical heat dissipation [BTU/hour]	549.35 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 241 W (without cards) • Full PoE load: 2011 W (PoE: 1687 W, without cards)
Maximum heat dissipation [BTU/hour]	• Without PoE: 822.32 (without cards) • Full PoE load: 6861.73 (without cards)
Static power consumption [W]	112 W
MTBF [years]	51.4 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.6 S5732-H24UM4Y2CZ-TV2 (02354VCN)

Overview

Table 4-1054 Basic information about the S5732-H24UM4Y2CZ-TV2

Item	Details
Description	S5732-H24UM4Y2CZ-TV2 2.5G bundle (24*100M/1/2.5G Ethernet ports, optional RTU upgrade to 5/10G, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, HTM, without power module)
Part Number	02354VCN
Model	S5732-H24UM4Y2CZ-TV2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase an RTU license to increase the port rate to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

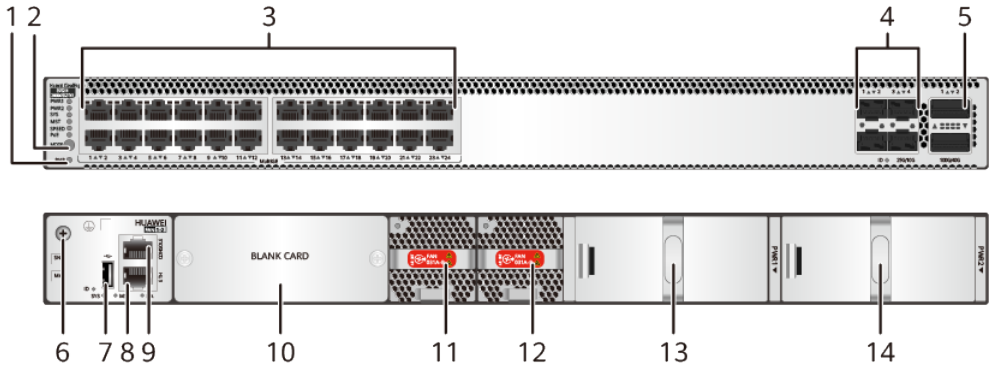
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-370 S5732-H24UM4Y2CZ-TV2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button

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3	Twenty-four 100M/1000M/ 2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

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Ports

Table 4-1055 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1056 Ports on the S5732-H24UM4Y2CZ-TV2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase an RTU license to increase the port rate to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 100GE QSFP28 optical modules • 1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP28 to QSFP28 AOC cable • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-371 Indicators on the switch

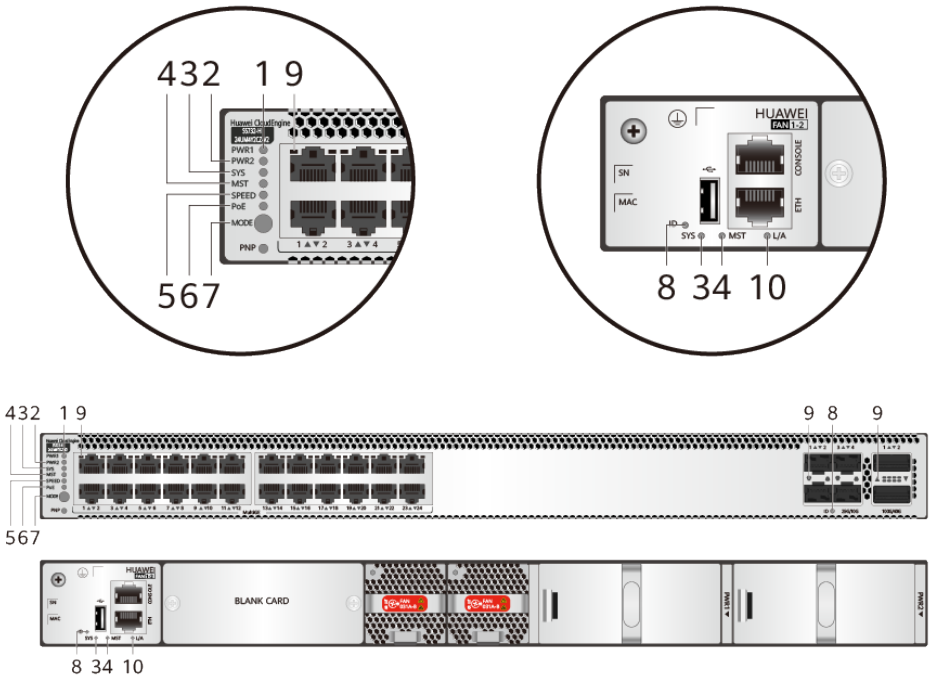

Table 4-1057 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Power module indicator	-	Off	No power module is available in power module slot 1, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 1 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 1: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.

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No.	Indicator	Name	Color	Status	Description
2	PWR 2	Power module indicator	-	Off	No power module is available in power module slot 2, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 2 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 2: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
5	SPEED	Speed indicator	-	Off	The speed mode is not selected.
			Green	Steady on	The speed mode is selected, and service port indicators show the speed of each port.
6	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
7	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the speed mode and show the speed of each service port. • When you press this button a third time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a fourth time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the SPEED and PoE indicators are off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
9	-	Service port indicator (one indicator for each port)	Electrical port: The indicator in the upper left corner of a port indicates the indicator of a port at the top, and the indicator in the upper right corner indicates the indicator of a port at the bottom. Optical port: Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-1058**.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-1058 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	Green	Off	Port indicators do not show the stack ID of the switch.
		Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
		Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
Speed mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s or 1000 Mbit/s. 10GE/25GE SFP28 port: The port is operating at 10 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. 10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

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Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-1059 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	737 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	642 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1687 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1497 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
600 W AC (220 V)	600 W AC (220 V)	927 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1307 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

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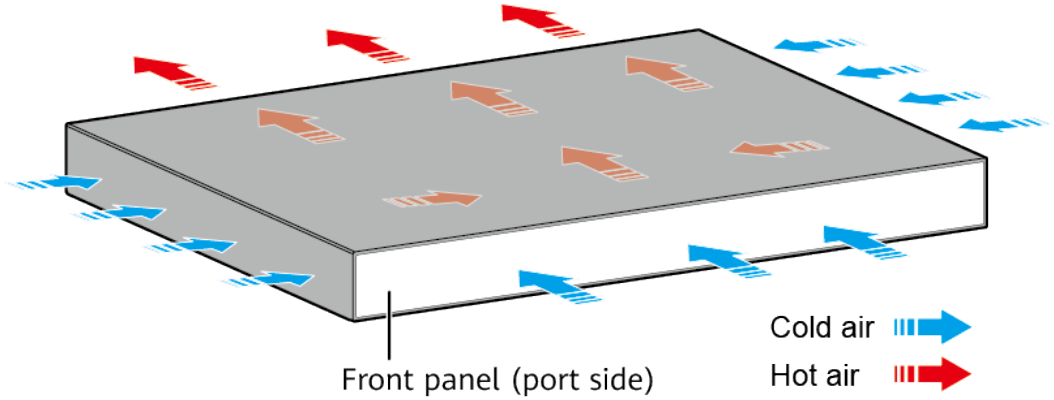
Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1060 Technical specifications of the S5732-H24UM4Y2CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.94 kg (15.30 lb)
Weight with packaging [kg(lb)]	8.88 kg (19.58 lb)
Typical power consumption [W]	161 W
Typical heat dissipation [BTU/hour]	549.35 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 241 W (without cards) • Full PoE load: 2011 W (PoE: 1687 W, without cards)
Maximum heat dissipation [BTU/hour]	• Without PoE: 822.32 (without cards) • Full PoE load: 6861.73 (without cards)
Static power consumption [W]	112 W
MTBF [years]	51.4 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.7 S5732-H24UM4Y2CZ-TV2 (02354VCN-001)

Overview

Table 4-1061 Basic information about the S5732-H24UM4Y2CZ-TV2

Item	Details
Description	S5732-H24UM4Y2CZ-TV2 2.5&10G bundle (12*100M/1/2.5G ports, 12*100M/1/2.5/5/10G Ethernet ports, optional RTU upgrade to 5/10G, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, HTM, without power module)
Part Number	02354VCN-001
Model	S5732-H24UM4Y2CZ-TV2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU license for upgrading 12 x 2.5GE ports to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase an RTU license to increase the rate of the other 12 ports to 5 Gbit/s or 10 Gbit/s. To increase the rate of these ports to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

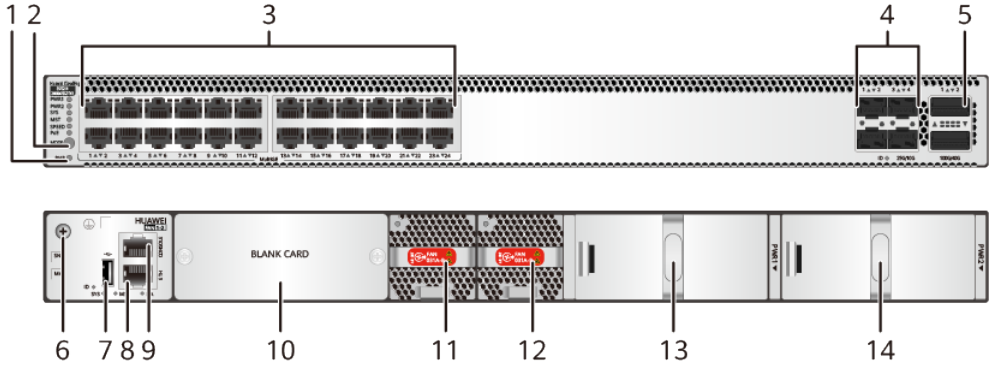
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-372 S5732-H24UM4Y2CZ-TV2 appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

Ports

Table 4-1062 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1063 Ports on the S5732-H24UM4Y2CZ-TV2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU license for upgrading 12 x 2.5GE ports to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase an RTU license to increase the rate of the other 12 ports to 5 Gbit/s or 10 Gbit/s. To increase the rate of these ports to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
		port-license command.	

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 100GE QSFP28 optical modules • 1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP28 to QSFP28 AOC cable • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-373 Indicators on the switch

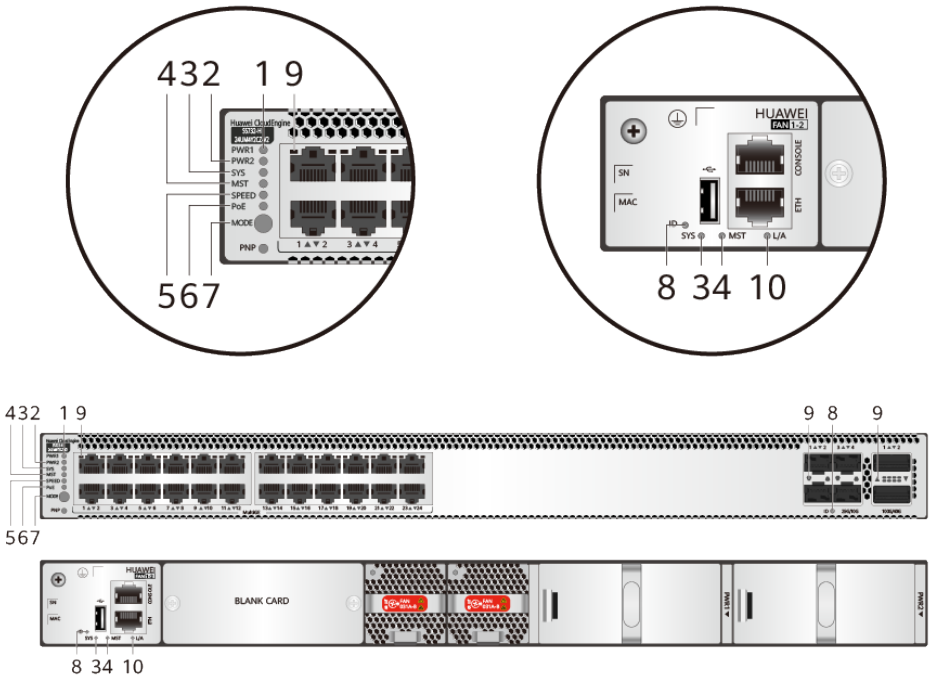

Table 4-1064 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Power module indicator	-	Off	No power module is available in power module slot 1, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 1 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 1: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.

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No.	Indicator	Name	Color	Status	Description
2	PWR 2	Power module indicator	-	Off	No power module is available in power module slot 2, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 2 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 2: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
5	SPEED	Speed indicator	-	Off	The speed mode is not selected.
			Green	Steady on	The speed mode is selected, and service port indicators show the speed of each port.
6	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
7	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the speed mode and show the speed of each service port. • When you press this button a third time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a fourth time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the SPEED and PoE indicators are off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
9	-	Service port indicator (one indicator for each port)	Electrical port: The indicator in the upper left corner of a port indicates the indicator of a port at the top, and the indicator in the upper right corner indicates the indicator of a port at the bottom. Optical port: Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-1065**.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-1065 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	Green	Off	Port indicators do not show the stack ID of the switch.
		Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
		Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
Speed mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s or 1000 Mbit/s. 10GE/25GE SFP28 port: The port is operating at 10 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. 10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

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Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-1066 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	737 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	642 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1687 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1497 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
600 W AC (220 V)	600 W AC (220 V)	927 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1307 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

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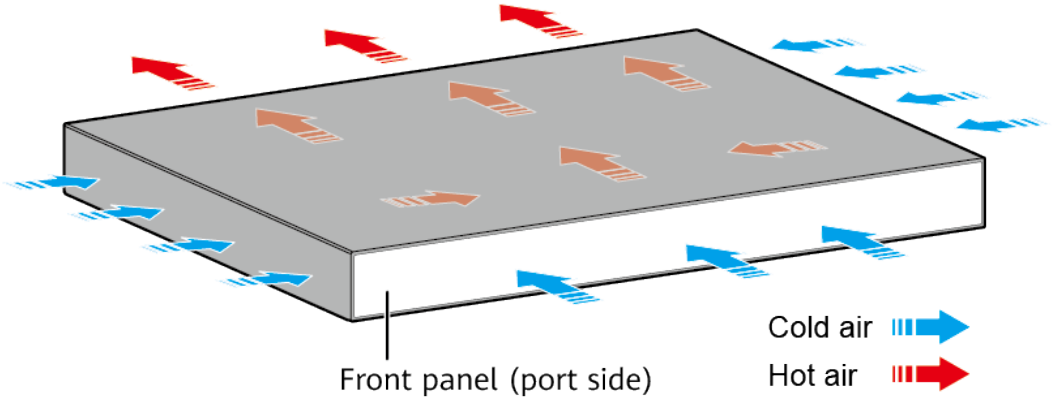
Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1067 Technical specifications of the S5732-H24UM4Y2CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.94 kg (15.30 lb)
Weight with packaging [kg(lb)]	8.88 kg (19.58 lb)
Typical power consumption [W]	161 W
Typical heat dissipation [BTU/hour]	549.35 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 241 W (without cards) • Full PoE load: 2011 W (PoE: 1687 W, without cards)
Maximum heat dissipation [BTU/hour]	• Without PoE: 822.32 (without cards) • Full PoE load: 6861.73 (without cards)
Static power consumption [W]	112 W
MTBF [years]	51.4 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.8 S5732-H24UM4Y2CZ-TV2 (02354VCN-002)

Overview

Table 4-1068 Basic information about the S5732-H24UM4Y2CZ-TV2

Item	Details
Description	S5732-H24UM4Y2CZ-TV2 5G bundle (24*100M/1/2.5/5G Ethernet ports, optional RTU upgrade to 10G, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, HTM, without power module)
Part Number	02354VCN-002
Model	S5732-H24UM4Y2CZ-TV2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 24 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

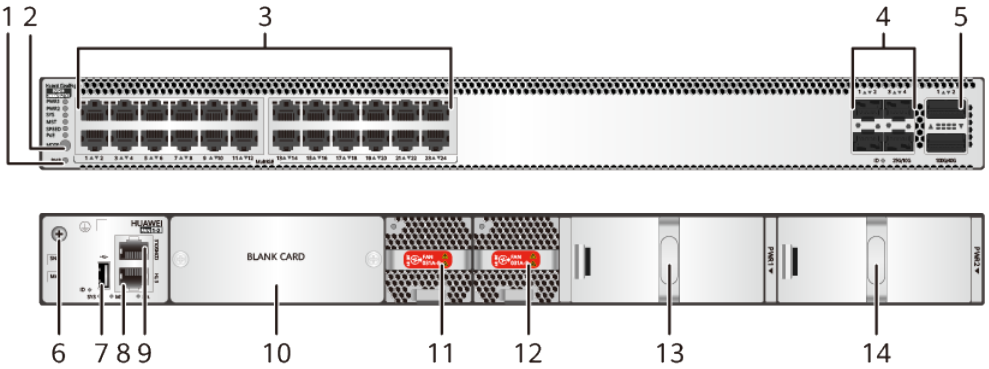
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-374 S5732-H24UM4Y2CZ-TV2 appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

Ports

Table 4-1069 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1070 Ports on the S5732-H24UM4Y2CZ-TV2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 24 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 100GE QSFP28 optical modules • 1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP28 to QSFP28 AOC cable • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-375 Indicators on the switch

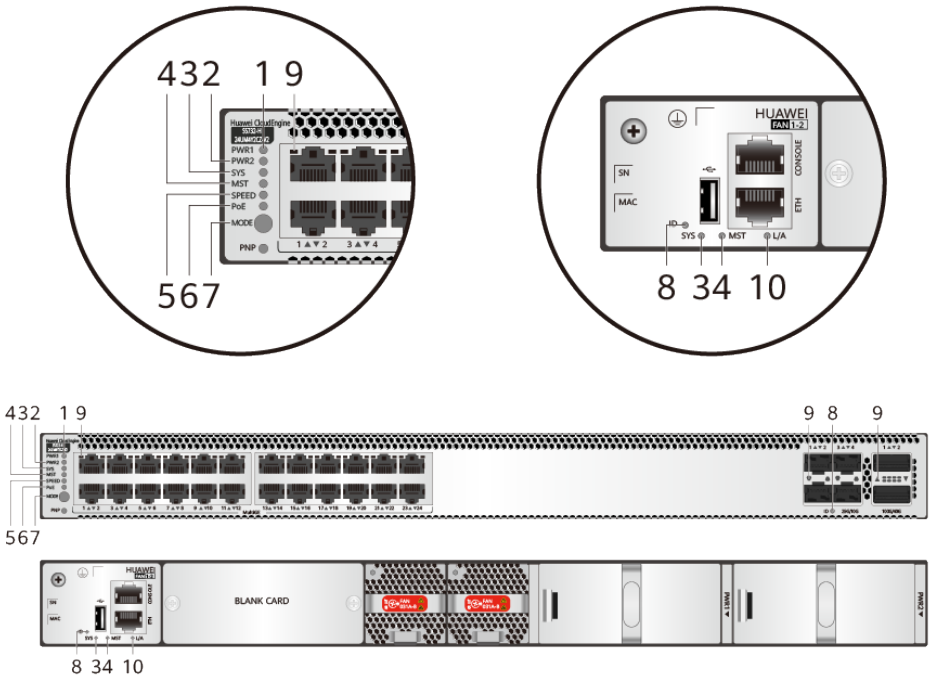

Table 4-1071 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Power module indicator	-	Off	No power module is available in power module slot 1, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 1 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 1: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.

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No.	Indicator	Name	Color	Status	Description
2	PWR 2	Power module indicator	-	Off	No power module is available in power module slot 2, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 2 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 2: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
5	SPEED	Speed indicator	-	Off	The speed mode is not selected.
			Green	Steady on	The speed mode is selected, and service port indicators show the speed of each port.
6	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
7	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the speed mode and show the speed of each service port. • When you press this button a third time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a fourth time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the SPEED and PoE indicators are off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
9	-	Service port indicator (one indicator for each port)	Electrical port: The indicator in the upper left corner of a port indicates the indicator of a port at the top, and the indicator in the upper right corner indicates the indicator of a port at the bottom. Optical port: Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-1072**.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-1072 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	Green	Off	Port indicators do not show the stack ID of the switch.
		Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
		Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
Speed mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s or 1000 Mbit/s. 10GE/25GE SFP28 port: The port is operating at 10 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. 10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

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Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-1073 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	737 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	642 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1687 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1497 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
600 W AC (220 V)	600 W AC (220 V)	927 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1307 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

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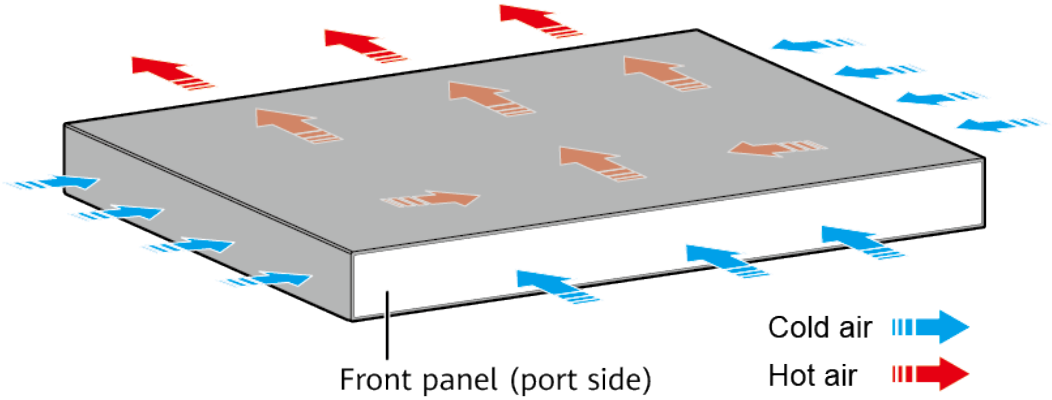
Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1074 Technical specifications of the S5732-H24UM4Y2CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.94 kg (15.30 lb)
Weight with packaging [kg(lb)]	8.88 kg (19.58 lb)
Typical power consumption [W]	161 W
Typical heat dissipation [BTU/hour]	549.35 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 241 W (without cards) • Full PoE load: 2011 W (PoE: 1687 W, without cards)
Maximum heat dissipation [BTU/hour]	• Without PoE: 822.32 (without cards) • Full PoE load: 6861.73 (without cards)
Static power consumption [W]	112 W
MTBF [years]	51.4 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.9 S5732-H24UM4Y2CZ-TV2 (02354VCN-003)

Overview

Table 4-1075 Basic information about the S5732-H24UM4Y2CZ-TV2

Item	Details
Description	S5732-H24UM4Y2CZ-TV2 10G bundle (24*100M/1/2.5/5/10G Ethernet ports, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, HTM, without power module)
Part Number	02354VCN-003
Model	S5732-H24UM4Y2CZ-TV2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s, and the RTU licenses for increasing the rate of 24 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.

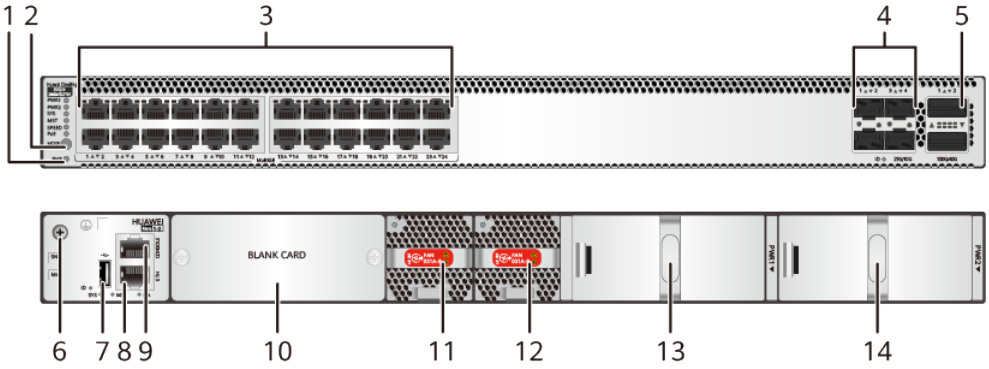
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-376 S5732-H24UM4Y2CZ-TV2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Twenty-four 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

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Ports

Table 4-1076 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1077 Ports on the S5732-H24UM4Y2CZ-TV2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s, and the RTU licenses for increasing the rate of 24 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 100GE QSFP28 optical modules • 1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP28 to QSFP28 AOC cable • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-377 Indicators on the switch

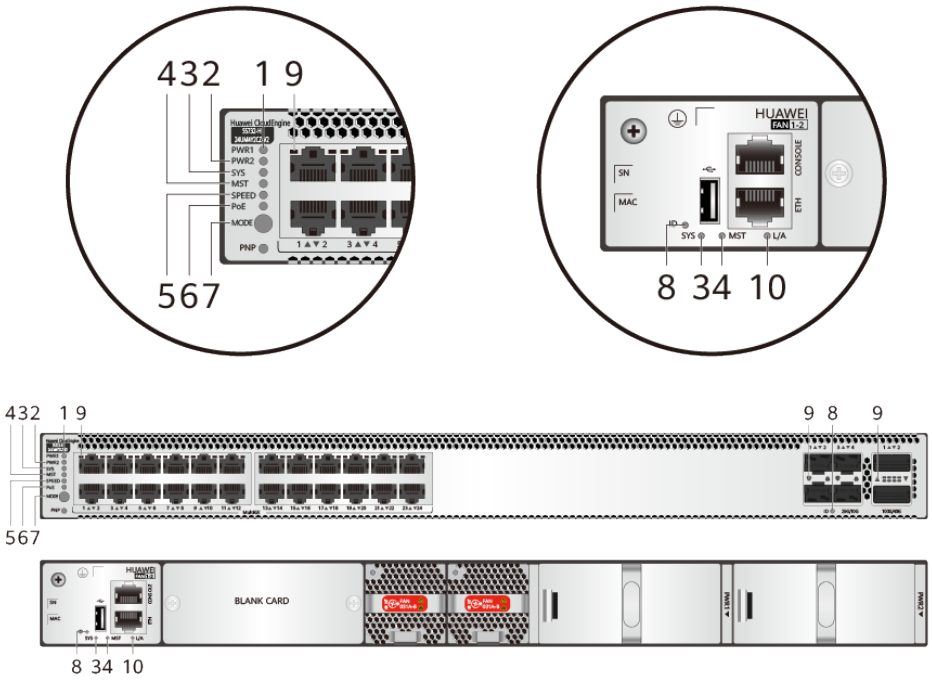

Table 4-1078 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR 1	Power module indicator	-	Off	No power module is available in power module slot 1, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 1 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 1: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.

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No.	Indicator	Name	Color	Status	Description
2	PWR 2	Power module indicator	-	Off	No power module is available in power module slot 2, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 2 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 2: ● A power module is available in this slot but it is not connected to a power source. ● The power module in this slot has failed.
3	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	● If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch. ● If you are changing the indicator mode: The stack mode is not selected.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	• If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
5	SPEED	Speed indicator	-	Off	The speed mode is not selected.
			Green	Steady on	The speed mode is selected, and service port indicators show the speed of each port.
6	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.

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No.	Indicator	Name	Color	Status	Description
7	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • When you press this button a second time, the service port indicators change to the speed mode and show the speed of each service port. • When you press this button a third time, the service port indicators change to the PoE mode and show the PoE status of each service port. • When you press this button a fourth time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the SPEED and PoE indicators are off. **NOTE** In V600R023C00 and later versions, hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur: • If the switch has no configuration file, the system attempts to enter the web initial login mode. If the system enters the web initial login mode successfully, the MST mode indicator turns green and stays on for a maximum of 45 seconds. • If the login fails, check whether the device uses factory default settings.
8	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
9	-	Service port indicator (one indicator for each port)	Electrical port: The indicator in the upper left corner of a port indicates the indicator of a port at the top, and the indicator in the upper right corner indicates the indicator of a port at the bottom. Optical port: Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.		Meanings of service port indicators vary in different modes. For details, see **Table 4-1079**.
10	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.

Table 4-1079 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.

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Display Mode	Color	Status	Description
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
MST stack mode	Green	Off	Port indicators do not show the stack ID of the switch.
		Steady on	The switch is not the master switch in a stack. If the indicator of a port is steady on, the number of this port is the stack ID of the switch.
		Blinking	The switch is the master switch in a stack. If the indicator of a port is blinking, the number of this port is the stack ID of the switch.
Speed mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 100 Mbit/s or 1000 Mbit/s. 10GE/25GE SFP28 port: The port is operating at 10 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	100M/1000M/2.5GE/5GE/10GE BASE-T port: The port is operating at 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. 10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

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Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

Table 4-1080 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	737 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 12 • 802.3bt (90 W per port): 8
1000 W AC (110 V)	–	642 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 21 • 802.3bt (60 W per port): 10 • 802.3bt (90 W per port): 7
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1687 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1497 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	–	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
600 W AC (220 V)	600 W AC (220 V)	927 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 15 • 802.3bt (90 W per port): 10
600 W AC (110 V)	600 W AC (110 V)	357 W	• 802.3af (15.4 W per port): 23 • 802.3at (30 W per port): 11 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1307 W	• 802.3af (15.4 W per port): 24 • 802.3at (30 W per port): 24 • 802.3bt (60 W per port): 21 • 802.3bt (90 W per port): 14

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

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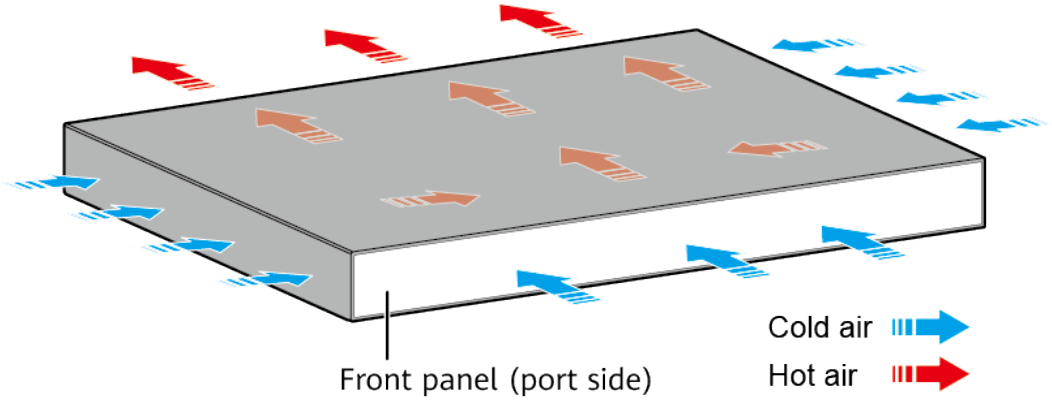
Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1081 Technical specifications of the S5732-H24UM4Y2CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.94 kg (15.30 lb)
Weight with packaging [kg(lb)]	8.88 kg (19.58 lb)
Typical power consumption [W]	161 W
Typical heat dissipation [BTU/hour]	549.35 BTU/hour

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Item	Specification
Maximum power consumption [W]	• Without PoE: 241 W (without cards) • Full PoE load: 2011 W (PoE: 1687 W, without cards)
Maximum heat dissipation [BTU/hour]	• Without PoE: 822.32 (without cards) • Full PoE load: 6861.73 (without cards)
Static power consumption [W]	112 W
MTBF [years]	51.4 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.10 S5732-H44S4X6QZ-V2

Overview

Table 4-1082 Basic information about the S5732-H44S4X6QZ-V2

Item	Details
Description	S5732-H44S4X6QZ-V2 (44*GE SFP ports, 4*10GE SFP+ ports, 6*40GE QSFP ports, without power module)
Part Number	02354VCT
Model	S5732-H44S4X6QZ-V2
First supported version	V600R022C00

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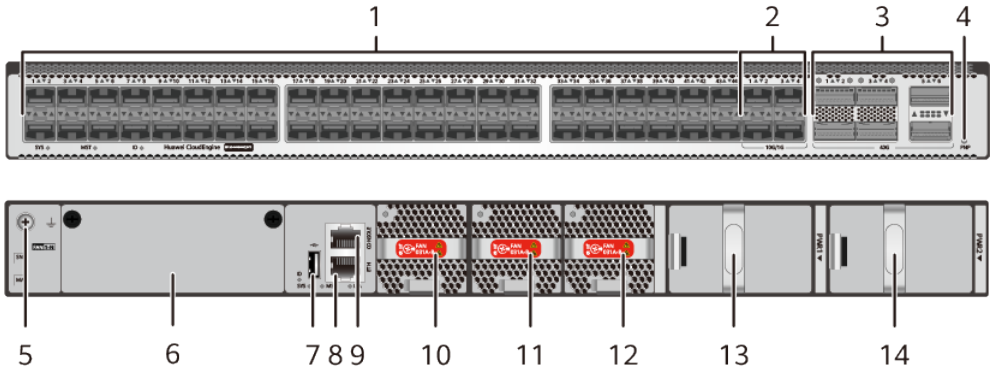
Components

Figure 4-378 S5732-H44S4X6QZ-V2 appearance



1	Forty-four 100/1000BASE-X ports	2	Four 10GE SFP+ optical ports
3	Six 40GE QSFP+ optical ports	4	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
5	Ground screw **NOTE** It is used with a **ground cable**.	6	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
7	One USB port	8	One ETH management port
9	One console port	10	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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11	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 3 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	14	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**

Ports

Table 4-1083 Ports on the S5732-H44S4X6QZ-V2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100 Mbit/s or 1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables**

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Port	Connector Type	Description	Available Components
			• **0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)**
40GE QSFP+ optical port	QSFP+	A 40GE QSFP+ optical port sends and receives service data at 40 Gbit/s. In V600R023C10 and later versions, the last two 40GE ports can each be split into four 10GE ports using a command.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions)** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)**

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5732-H44S4X6QZ-V2 has the same types of indicators as the S5732-H24S4X6QZ-V2. For details, see the S5732-H24S4X6QZ-V2.

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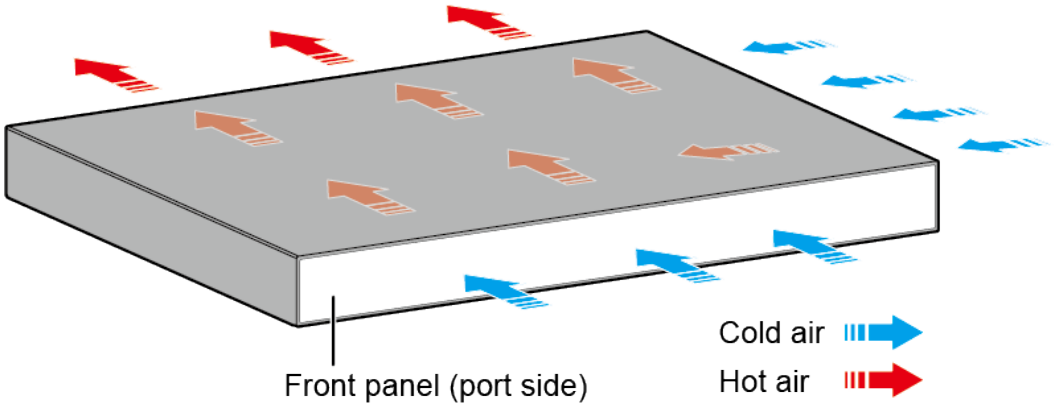
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1084 Technical specifications of the S5732-H44S4X6QZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.48 kg (16.49 lb)

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Item	Specification
Weight with packaging [kg(lb)]	10.46 kg (23.06 lb)
Typical power consumption [W]	200 W
Typical heat dissipation [BTU/hour]	682.42 BTU/hour
Maximum power consumption [W]	253 W
Maximum heat dissipation [BTU/hour]	863.26 BTU/hour
Static power consumption [W]	151 W
MTBF [years]	48.99 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)

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Item	Specification
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.20.11 S5732-H44S4X6QZ-TV2

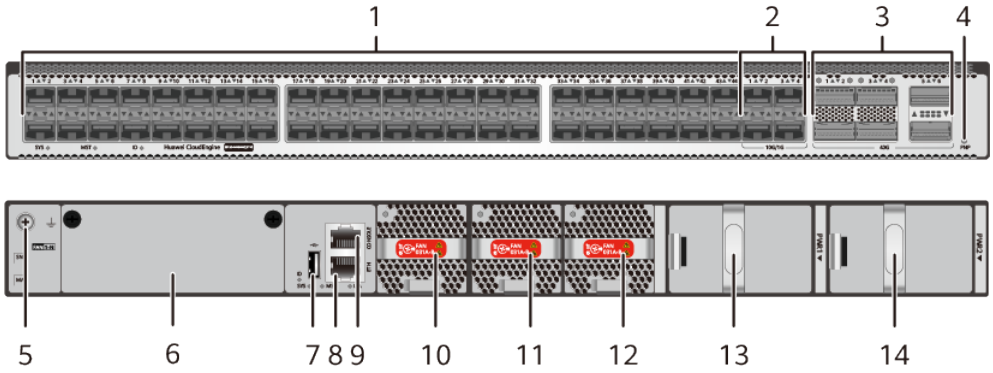
Overview

Table 4-1085 Basic information about the S5732-H44S4X6QZ-TV2

Item	Details
Description	S5732-H44S4X6QZ-TV2 (44*GE SFP ports, 4*10GE SFP+ ports, 6*40GE QSFP ports, HTM, without power module)
Part Number	02354VCU
Model	S5732-H44S4X6QZ-TV2
First supported version	V600R022C00

Components

Figure 4-379 S5732-H44S4X6QZ-TV2 appearance



1	Forty-four 100/1000BASE-X ports	2	Four 10GE SFP+ optical ports

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3	Six 40GE QSFP+ optical ports	4	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
5	Ground screw **NOTE** It is used with a **ground cable**.	6	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version) **HSIC-Y08S000** (available since V600R024C10 version)
7	One USB port	8	One ETH management port
9	One console port	10	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 3 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	14	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**

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Ports

Table 4-1086 Ports on the S5732-H44S4X6QZ-TV2

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100 Mbit/s or 1000 Mbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module**

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Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables**

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Port	Connector Type	Description	Available Components
			• 0.5 m and 1.5 m SFP+ dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)
40GE QSFP+ optical port	QSFP+	A 40GE QSFP+ optical port sends and receives service data at 40 Gbit/s. In V600R023C10 and later versions, the last two 40GE ports can each be split into four 10GE ports using a command.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions) • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)

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Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5732-H44S4X6QZ-TV2 has the same types of indicators as the S5732-H24S4X6QZ-TV2. For details, see the S5732-H24S4X6QZ-TV2.

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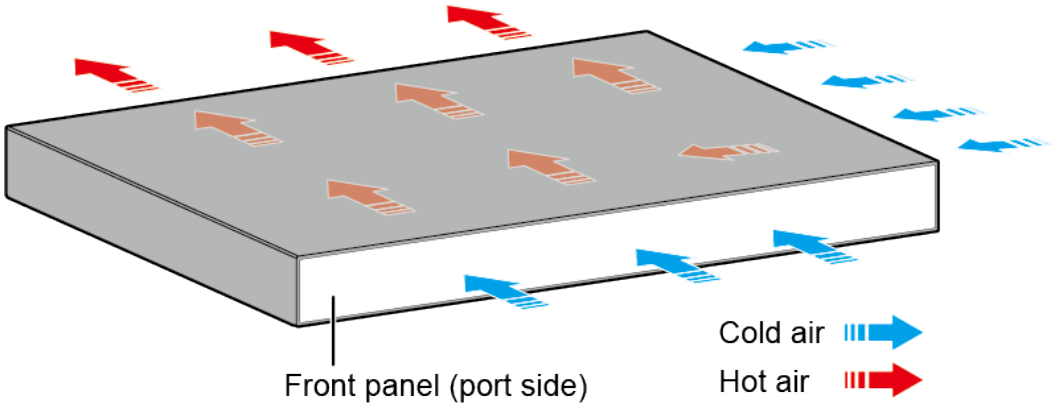
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1087 Technical specifications of the S5732-H44S4X6QZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.48 kg (16.49 lb)

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Item	Specification
Weight with packaging [kg(lb)]	10.46 kg (23.06 lb)
Typical power consumption [W]	200 W
Typical heat dissipation [BTU/hour]	682.42 BTU/hour
Maximum power consumption [W]	253 W
Maximum heat dissipation [BTU/hour]	863.26 BTU/hour
Static power consumption [W]	151 W
MTBF [years]	48.99 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)

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Item	Specification
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.20.12 S5732-H48UM4Y2CZ-V2 (02354VBU)

Overview

Table 4-1088 Basic information about the S5732-H48UM4Y2CZ-V2

Item	Details
Description	S5732-H48UM4Y2CZ-V2 2.5G bundle (48*100M/1/2.5G Ethernet ports, optional RTU upgrade to 5/10G, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, without power module)
Part Number	02354VBU
Model	S5732-H48UM4Y2CZ-V2
First supported version	V600R022C00
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase an RTU license to increase the port rate to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

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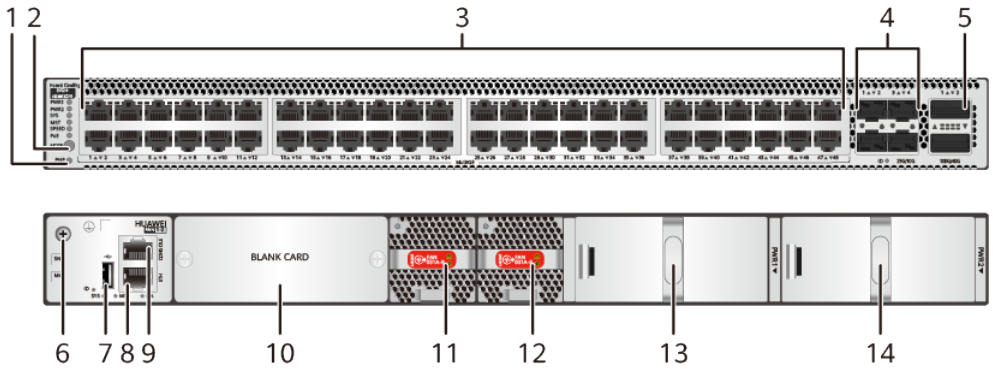
Components

Figure 4-380 S5732-H48UM4Y2CZ-V2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)

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11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

Ports

Table 4-1089 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1090 Ports on the S5732-H48UM4Y2CZ-V2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase an RTU license to increase the port rate to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 100GE QSFP28 optical modules • 1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP28 to QSFP28 AOC cable • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5732-H48UM4Y2CZ-V2 has the same types of indicators as the S5732-H24UM4Y2CZ-V2. For details, see the S5732-H24UM4Y2CZ-V2.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-1091 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	682 W	• 802.3af (15.4 W per port): 44 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7
1000 W AC (110 V)	–	587 W	• 802.3af (15.4 W per port): 38 • 802.3at (30 W per port): 19 • 802.3bt (60 W per port): 9 • 802.3bt (90 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1632 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1442 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	–	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	872 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 29 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1252 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 41 • 802.3bt (60 W per port): 20 • 802.3bt (90 W per port): 13

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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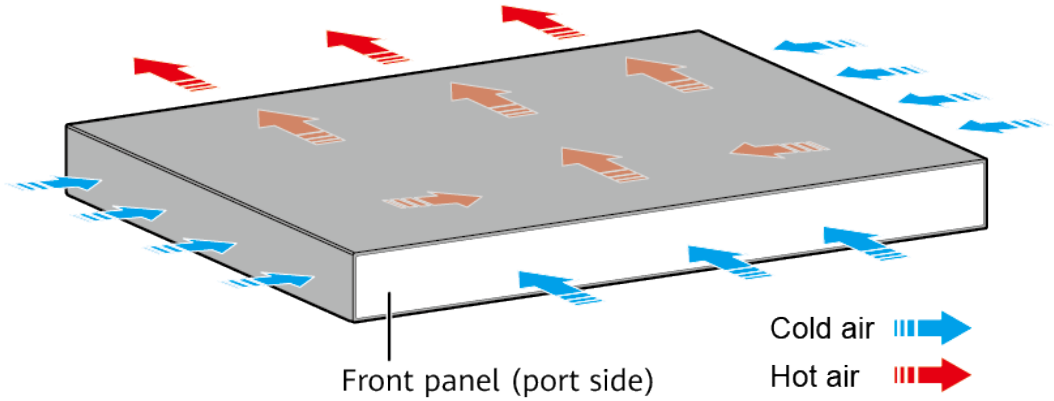

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1092 Technical specifications of the S5732-H48UM4Y2CZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.59 kg (16.73 lb)
Weight with packaging [kg(lb)]	9.53 kg (21.01 lb)
Typical power consumption [W]	210 W
Typical heat dissipation [BTU/hour]	716.54 BTU/hour
Maximum power consumption [W]	• Without PoE: 297 W (without cards) • Full PoE load: 2013 W (PoE: 1632 W, without cards)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• Without PoE: 1013.39 (without cards) • Full PoE load: 6868.56 (without cards)
Static power consumption [W]	129 W
MTBF [years]	42.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.13 S5732-H48UM4Y2CZ-V2 (02354VBU-001)

Overview

Table 4-1093 Basic information about the S5732-H48UM4Y2CZ-V2

Item	Details
Description	S5732-H48UM4Y2CZ-V2 5G bundle (48*100M/1/2.5/5G Ethernet ports, optional RTU upgrade to 10G, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, without power module)
Part Number	02354VBU-001
Model	S5732-H48UM4Y2CZ-V2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

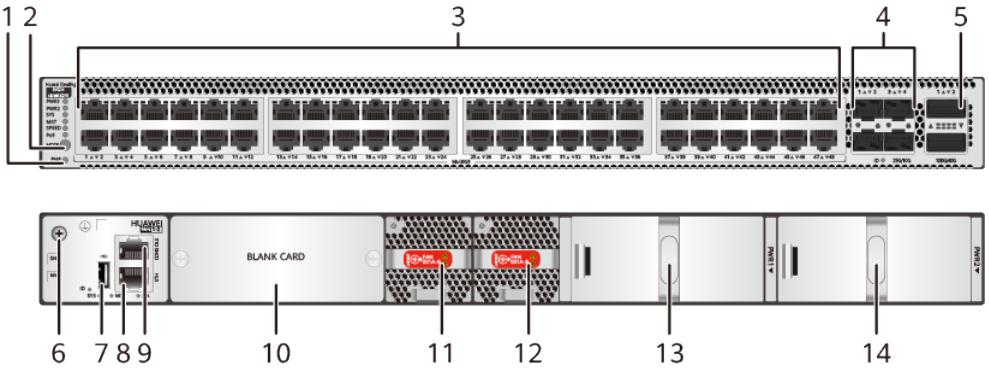
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-381 S5732-H48UM4Y2CZ-V2 appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

Ports

Table 4-1094 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1095 Ports on the S5732-H48UM4Y2CZ-V2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 100GE QSFP28 optical modules • 1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP28 to QSFP28 AOC cable • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5732-H48UM4Y2CZ-V2 has the same types of indicators as the S5732-H24UM4Y2CZ-V2. For details, see the S5732-H24UM4Y2CZ-V2.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-1096 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	682 W	• 802.3af (15.4 W per port): 44 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7
1000 W AC (110 V)	–	587 W	• 802.3af (15.4 W per port): 38 • 802.3at (30 W per port): 19 • 802.3bt (60 W per port): 9 • 802.3bt (90 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1632 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1442 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	–	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	872 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 29 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1252 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 41 • 802.3bt (60 W per port): 20 • 802.3bt (90 W per port): 13

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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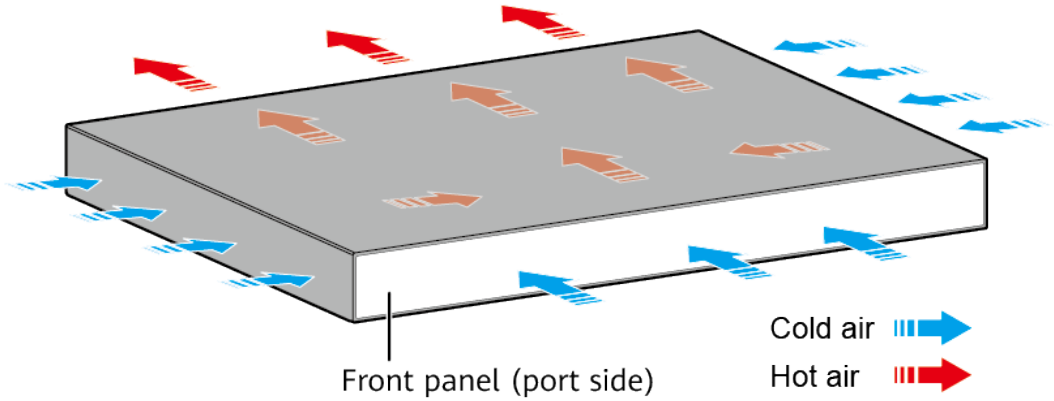

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1097 Technical specifications of the S5732-H48UM4Y2CZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.59 kg (16.73 lb)
Weight with packaging [kg(lb)]	9.53 kg (21.01 lb)
Typical power consumption [W]	210 W
Typical heat dissipation [BTU/hour]	716.54 BTU/hour
Maximum power consumption [W]	• Without PoE: 297 W (without cards) • Full PoE load: 2013 W (PoE: 1632 W, without cards)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• Without PoE: 1013.39 (without cards) • Full PoE load: 6868.56 (without cards)
Static power consumption [W]	129 W
MTBF [years]	42.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.14 S5732-H48UM4Y2CZ-V2 (02354VBU-002)

Overview

Table 4-1098 Basic information about the S5732-H48UM4Y2CZ-V2

Item	Details
Description	S5732-H48UM4Y2CZ-V2 10G bundle (48*100M/1/2.5/5/10G Ethernet ports, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, without power module)
Part Number	02354VBU-002
Model	S5732-H48UM4Y2CZ-V2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.

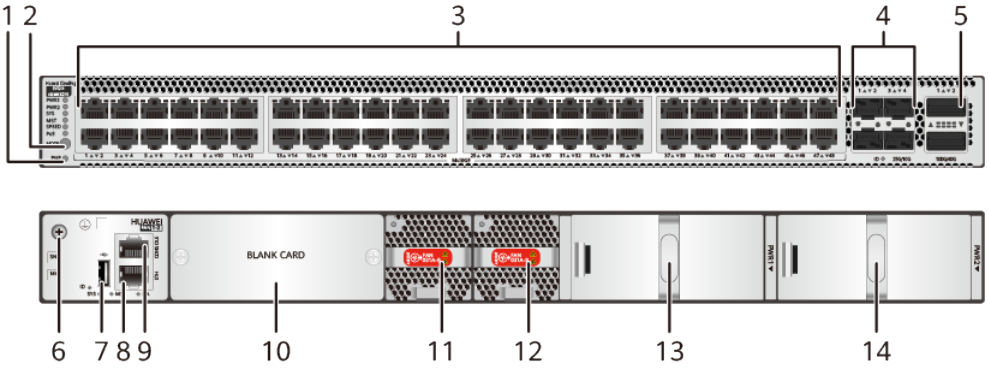
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-382 S5732-H48UM4Y2CZ-V2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

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Ports

Table 4-1099 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1100 Ports on the S5732-H48UM4Y2CZ-V2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5732-H48UM4Y2CZ-V2 has the same types of indicators as the S5732-H24UM4Y2CZ-V2. For details, see the S5732-H24UM4Y2CZ-V2.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-1101 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	682 W	• 802.3af (15.4 W per port): 44 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7
1000 W AC (110 V)	–	587 W	• 802.3af (15.4 W per port): 38 • 802.3at (30 W per port): 19 • 802.3bt (60 W per port): 9 • 802.3bt (90 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1632 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1442 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	–	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	872 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 29 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1252 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 41 • 802.3bt (60 W per port): 20 • 802.3bt (90 W per port): 13

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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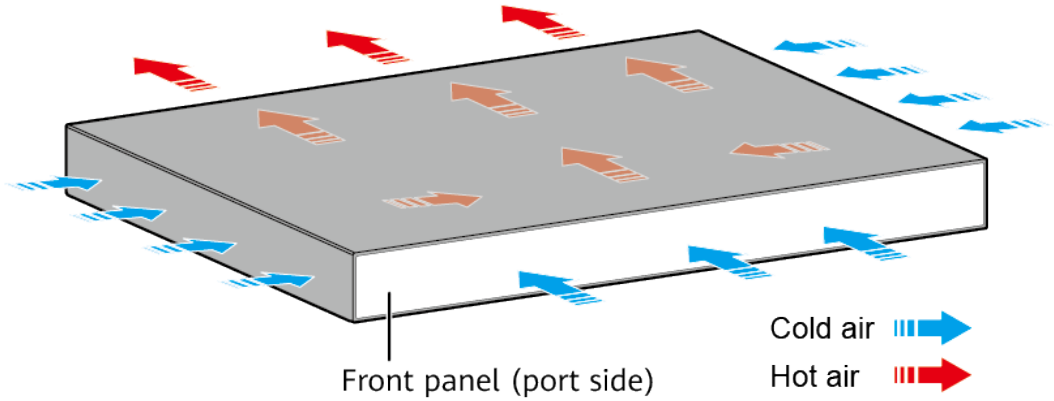

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1102 Technical specifications of the S5732-H48UM4Y2CZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.59 kg (16.73 lb)
Weight with packaging [kg(lb)]	9.53 kg (21.01 lb)
Typical power consumption [W]	210 W
Typical heat dissipation [BTU/hour]	716.54 BTU/hour
Maximum power consumption [W]	• Without PoE: 297 W (without cards) • Full PoE load: 2013 W (PoE: 1632 W, without cards)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• Without PoE: 1013.39 (without cards) • Full PoE load: 6868.56 (without cards)
Static power consumption [W]	129 W
MTBF [years]	42.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.15 S5732-H48UM4Y2CZ-TV2 (02354VCJ)

Overview

Table 4-1103 Basic information about the S5732-H48UM4Y2CZ-TV2

Item	Details
Description	S5732-H48UM4Y2CZ-TV2 2.5G bundle (48*100M/1/2.5G Ethernet ports, optional RTU upgrade to 5/10G, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, HTM, without power module)
Part Number	02354VCJ
Model	S5732-H48UM4Y2CZ-TV2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase an RTU license to increase the port rate to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

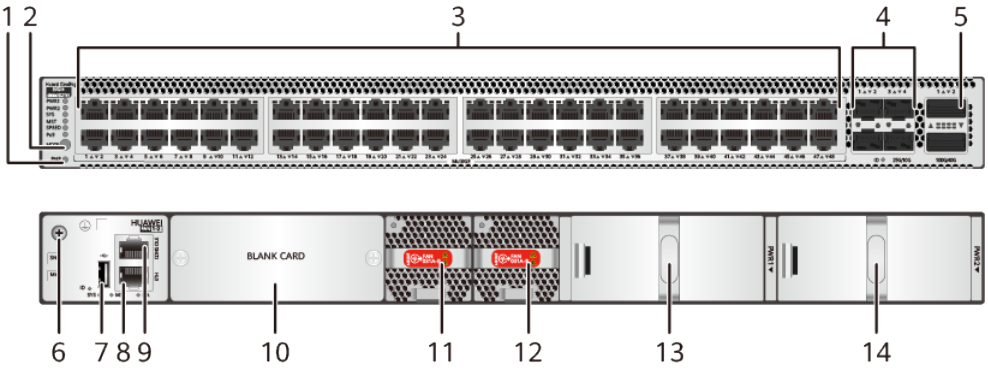
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-383 S5732-H48UM4Y2CZ-TV2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button

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3	Forty-eight 100M/1000M/ 2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

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Ports

Table 4-1104 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1105 Ports on the S5732-H48UM4Y2CZ-TV2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. You can purchase an RTU license to increase the port rate to 5 Gbit/s or 10 Gbit/s. To increase the port rate to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 100GE QSFP28 optical modules • 1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP28 to QSFP28 AOC cable • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5732-H48UM4Y2CZ-TV2 has the same types of indicators as the S5732-H24UM4Y2CZ-TV2. For details, see the S5732-H24UM4Y2CZ-TV2.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-1106 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	682 W	• 802.3af (15.4 W per port): 44 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7
1000 W AC (110 V)	–	587 W	• 802.3af (15.4 W per port): 38 • 802.3at (30 W per port): 19 • 802.3bt (60 W per port): 9 • 802.3bt (90 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1632 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1442 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	–	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	872 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 29 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1252 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 41 • 802.3bt (60 W per port): 20 • 802.3bt (90 W per port): 13

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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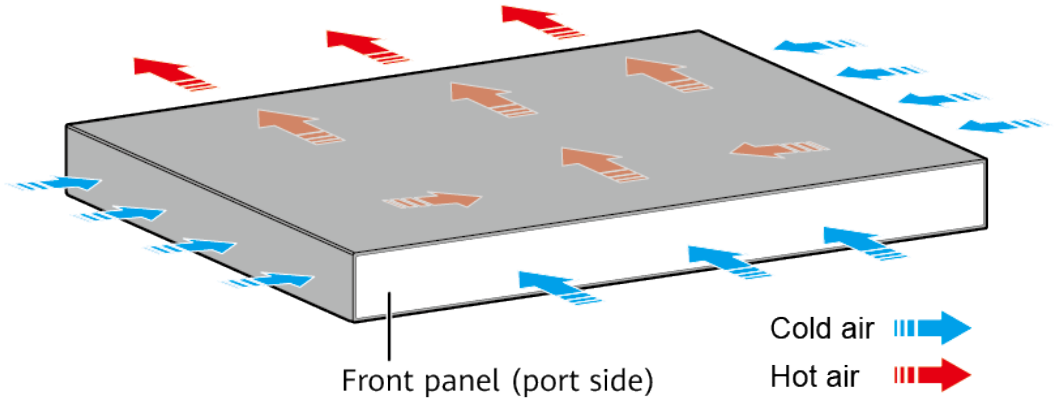

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1107 Technical specifications of the S5732-H48UM4Y2CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.59 kg (16.73 lb)
Weight with packaging [kg(lb)]	9.53 kg (21.01 lb)
Typical power consumption [W]	210 W
Typical heat dissipation [BTU/hour]	716.54 BTU/hour
Maximum power consumption [W]	• Without PoE: 297 W (without cards) • Full PoE load: 2013 W (PoE: 1632 W, without cards)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• Without PoE: 1013.39 (without cards) • Full PoE load: 6868.56 (without cards)
Static power consumption [W]	129 W
MTBF [years]	42.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.16 S5732-H48UM4Y2CZ-TV2 (02354VCJ-001)

Overview

Table 4-1108 Basic information about the S5732-H48UM4Y2CZ-TV2

Item	Details
Description	S5732-H48UM4Y2CZ-TV2 2.5&10G bundle (36*100M/1/2.5G ports, 12*100M/1/2.5/5/10G Ethernet ports, optional RTU upgrade to 5/10G, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, HTM, without power module)
Part Number	02354VCJ-001
Model	S5732-H48UM4Y2CZ-TV2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU license for upgrading 12 x 2.5GE ports to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase RTU licenses to increase the rate of the other 36 ports to 5 Gbit/s or 10 Gbit/s. To increase the rate of these ports to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

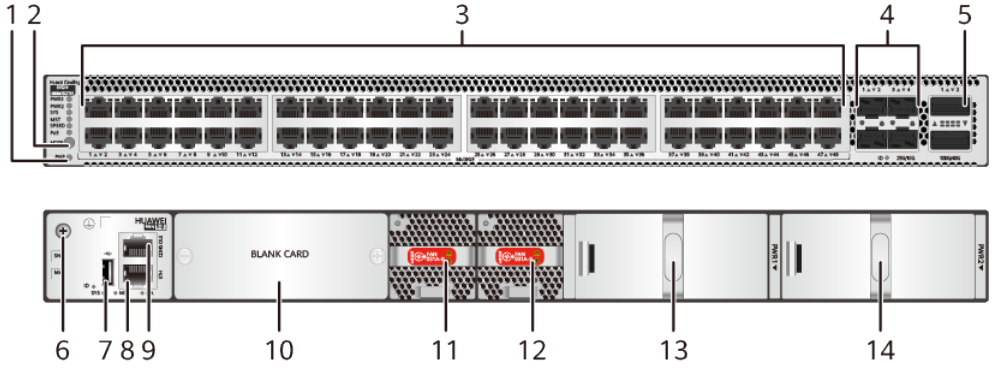
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-384 S5732-H48UM4Y2CZ-TV2 appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

Ports

Table 4-1109 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1110 Ports on the S5732-H48UM4Y2CZ-TV2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU license for upgrading 12 x 2.5GE ports to 10 Gbit/s has been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s. You can separately purchase RTU licenses to increase the rate of the other 36 ports to 5 Gbit/s or 10 Gbit/s. To increase the rate of these ports to 5 Gbit/s or 10 Gbit/s, run the license active command to activate the RTU license, and then run the active	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
		port-license command.	

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP+ to QSFP+ AOC cable • 100GE QSFP28 optical modules • 1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00) • 10 m QSFP28 to QSFP28 AOC cable • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5732-H48UM4Y2CZ-TV2 has the same types of indicators as the S5732-H24UM4Y2CZ-TV2. For details, see the S5732-H24UM4Y2CZ-TV2.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-1111 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	682 W	• 802.3af (15.4 W per port): 44 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7
1000 W AC (110 V)	–	587 W	• 802.3af (15.4 W per port): 38 • 802.3at (30 W per port): 19 • 802.3bt (60 W per port): 9 • 802.3bt (90 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1632 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1442 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	–	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	872 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 29 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1252 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 41 • 802.3bt (60 W per port): 20 • 802.3bt (90 W per port): 13

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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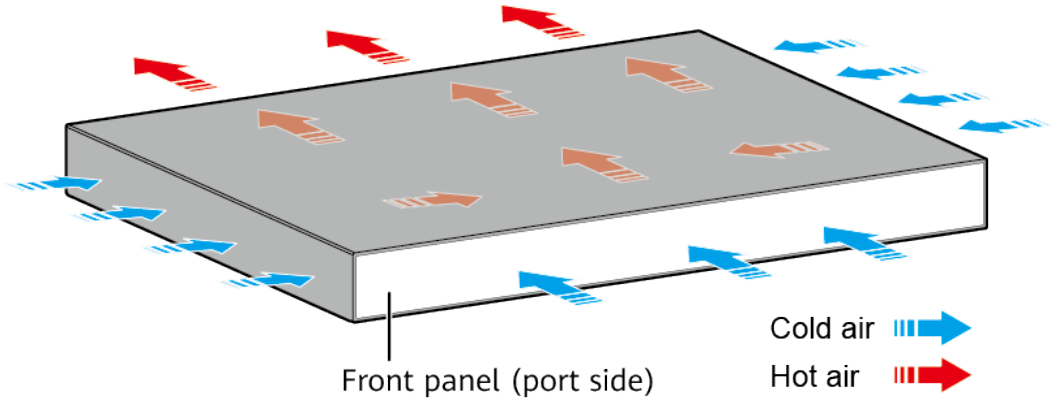

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1112 Technical specifications of the S5732-H48UM4Y2CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.59 kg (16.73 lb)
Weight with packaging [kg(lb)]	9.53 kg (21.01 lb)
Typical power consumption [W]	210 W
Typical heat dissipation [BTU/hour]	716.54 BTU/hour
Maximum power consumption [W]	• Without PoE: 297 W (without cards) • Full PoE load: 2013 W (PoE: 1632 W, without cards)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• Without PoE: 1013.39 (without cards) • Full PoE load: 6868.56 (without cards)
Static power consumption [W]	129 W
MTBF [years]	42.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.17 S5732-H48UM4Y2CZ-TV2 (02354VCJ-002)

Overview

Table 4-1113 Basic information about the S5732-H48UM4Y2CZ-TV2

Item	Details
Description	S5732-H48UM4Y2CZ-TV2 5G bundle (48*100M/1/2.5/5G Ethernet ports, optional RTU upgrade to 10G, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, HTM, without power module)
Part Number	02354VCJ-002
Model	S5732-H48UM4Y2CZ-TV2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.

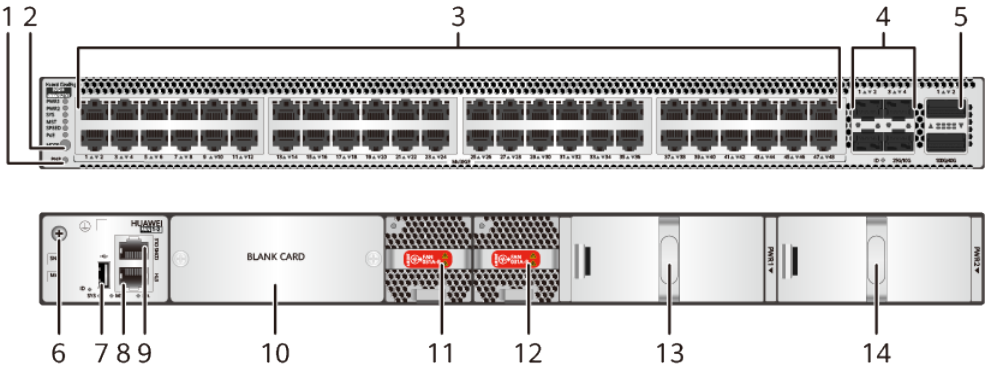
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-385 S5732-H48UM4Y2CZ-TV2 appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

Ports

Table 4-1114 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported

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Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1115 Ports on the S5732-H48UM4Y2CZ-TV2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 5 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 5 Gbit/s. You can separately purchase RTU licenses to further increase the port rate from 5 Gbit/s to 10 Gbit/s. To increase the port rate to 10 Gbit/s, run the license active command to activate the RTU license, and then run the active port-license command.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5732-H48UM4Y2CZ-TV2 has the same types of indicators as the S5732-H24UM4Y2CZ-TV2. For details, see the S5732-H24UM4Y2CZ-TV2.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-1116 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	682 W	• 802.3af (15.4 W per port): 44 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7
1000 W AC (110 V)	–	587 W	• 802.3af (15.4 W per port): 38 • 802.3at (30 W per port): 19 • 802.3bt (60 W per port): 9 • 802.3bt (90 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1632 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1442 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	–	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	872 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 29 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1252 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 41 • 802.3bt (60 W per port): 20 • 802.3bt (90 W per port): 13

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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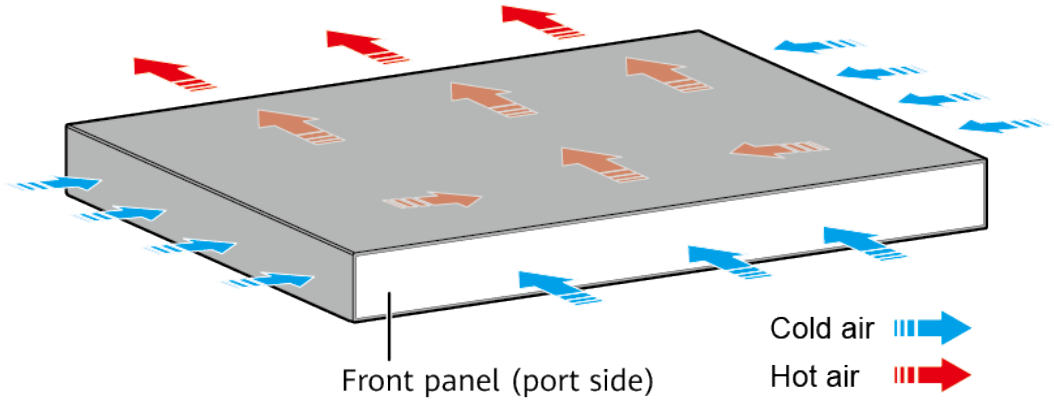

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1117 Technical specifications of the S5732-H48UM4Y2CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.59 kg (16.73 lb)
Weight with packaging [kg(lb)]	9.53 kg (21.01 lb)
Typical power consumption [W]	210 W
Typical heat dissipation [BTU/hour]	716.54 BTU/hour
Maximum power consumption [W]	• Without PoE: 297 W (without cards) • Full PoE load: 2013 W (PoE: 1632 W, without cards)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• Without PoE: 1013.39 (without cards) • Full PoE load: 6868.56 (without cards)
Static power consumption [W]	129 W
MTBF [years]	42.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

4.20.18 S5732-H48UM4Y2CZ-TV2 (02354VCJ-003)

Overview

Table 4-1118 Basic information about the S5732-H48UM4Y2CZ-TV2

Item	Details
Description	S5732-H48UM4Y2CZ-TV2 10G bundle (48*100M/1/2.5/5/10G Ethernet ports, 4*25G SFP28 ports, 2*100G QSFP28 ports, 1*expansion slot, PoE++, HTM, without power module)
Part Number	02354VCJ-003
Model	S5732-H48UM4Y2CZ-TV2
First supported version	V600R022C00

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Item	Details
Remarks	By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.

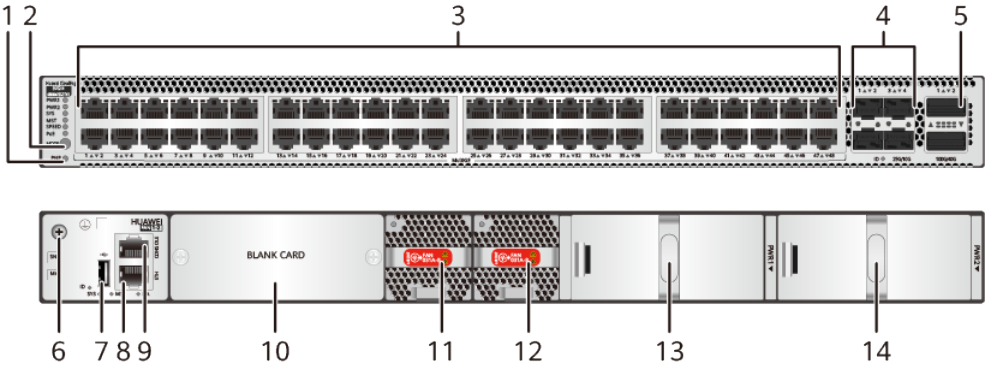
NOTE

A pre-configured or loaded RTU license of a device is bound to the device ESN and cannot be unbound or transferred to other devices.

For details about the RTU licenses supported by the device and how to load them, see the *License Usage Guide*.

Components

Figure 4-386 S5732-H48UM4Y2CZ-TV2 appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	One MODE button
3	Forty-eight 100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ ports (multi-GE ports)	4	Four 10GE/25GE SFP28 optical ports

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5	Two 40GE/100GE QSFP28 optical ports	6	Ground screw **NOTE** It is used with a **ground cable**.
7	One USB port	8	One ETH management port
9	One console port	10	Card slot **NOTE** Applicable card: • **S7X08000 (02312URW)** • **S7X08000 (02312URW-002)** • **S7C02000** (available since V600R024C10 version)
11	Fan module slot 1 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **7.2 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.6 PAC600S56-CB (600 W PoE AC&240 V DC Power Module (Back to Front, Power panel side exhaust))** • **5.8 PAC1000S56-CB (02312KND: 1000 W PoE AC&240 V DC Power Module)** • **5.9 PAC1000S56-CB (02312KND-001: 1000 W PoE AC&240 V DC Power Module)** • **5.10 PAC1000S56-DB (1000 W PoE AC&240 V DC Power Module)** • **5.12 PDC1000S56-CB (1000 W PoE DC Power Module)**

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Ports

Table 4-1119 Maximum transmission distances of different cables on multi-GE ports

Cable Type (6-a-1 Bundle)	Multi-GE Port (Different Rates)			
	100M/ 1000M	2.5GE	5GE	10GE
Category 5e unshielded twisted pair (Cat5e UTP)	100 m	100 m	• 55 m • 100 m (6-a-1 bundle only for the first 30 m) Not recommended due to high risks	Not supported
Category 5e shielded twisted pair (Cat5e STP)	100 m	100 m	100 m	Not supported
Category 6 unshielded twisted pair (Cat6 UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6 shielded twisted pair (Cat6 STP)	100 m	100 m	100 m	Not supported
Category 6A unshielded twisted pair (Cat6A U/UTP)	100 m	100 m	100 m Not recommended due to high risks	Not supported
Category 6A foiled/ unshielded twisted pair (Cat6A F/UTP)	100 m	100 m	100 m	100 m
Category 6A shielded twisted pair (Cat6A STP)	100 m	100 m	100 m	100 m
Category 7 twisted pair (Cat7)	100 m	100 m	100 m	100 m

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NOTE

6-a-1 stands for the six-around-one cable bundle mode, with one cable in the center and six cables bundled evenly around it.

If a port works at a rate of 5 Gbit/s, you are advised not to use unshielded Ethernet cables due to the following causes:

- 802.3bz requires that the ALSNR value for alien crosstalk between Ethernet cables be greater than 0, but the standards for Cat5e and Cat6 unshielded twisted pairs do not specify the required ALSNR value. Therefore, such cables may not meet the crosstalk requirement in 802.3bz, causing severe problems such as continuous packet loss or port flapping may occur.
- According the cabling specification TIA TSB-5021, using Cat5e and Cat6 cables for 5G poses high risks.
- Currently, no clear onsite testing or evaluation method is available for checking whether ALSNR of cables conforms to 802.3bz.

If a port works at a rate of 5 Gbit/s and a Cat6 shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL Class E (+All) or TIA Cat 6 Channel (+All). If a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If a port works at a rate of 10 Gbit/s and a Cat6A shielded Ethernet cable is used, the Ethernet cable must comply with ISO 11801 PL2 Class Ea (+All) or TIA Cat6A Channel (+All). Otherwise, serious problems such as continuous packet loss or interface flapping may occur.

If Cat5e and Cat6 unshielded twisted pairs do not meet the 5G requirement, you are advised to replace them with shielded twisted pairs or reduce the rate of ports to 2.5G.

If Cat5E, Cat6, or Cat6A unshielded twisted pairs are used on electrical ports working at 10 Gbit/s, severe problems such as continuous packet loss or port flapping may occur.

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Table 4-1120 Ports on the S5732-H48UM4Y2CZ-TV2

Port	Connector Type	Description	Available Components
100M/1000M/2.5GE/5GE/10GE BASE-T PoE++ port (multi-GE port)	RJ45	A 100M/1000M/2.5GE/5GE/10GE BASE-T port (multi-GE port) sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, 5 Gbit/s, or 10 Gbit/s. The port supports the PoE function. By default, multi-GE ports can work at 100 Mbit/s, 1000 Mbit/s, or 2.5 Gbit/s. The RTU licenses for upgrading 48 x 2.5GE ports to 10 Gbit/s have been activated before delivery. You can run the active port-license command to increase the multi-GE port rate to 10 Gbit/s.	If the 2.5 Gbit/s or 5 Gbit/s speed is required, the port must use an Ethernet cable of Cat5e or higher category. If the 10 Gbit/s speed is required, the port must use an Ethernet cable of Cat6A F/UTP or higher category.

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **PEN remote optical modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP28 dedicated**

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Port	Connector Type	Description	Available Components
			stack cables (V600R024C10 and later versions, only for zero-configuration stacking)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports are 100GE ports.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m QSFP28 to QSFP28 high-speed copper cable (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S5732-H48UM4Y2CZ-TV2 has the same types of indicators as the S5732-H24UM4Y2CZ-TV2. For details, see the S5732-H24UM4Y2CZ-TV2.

Power Supply System

The switch is a PoE switch and supports two power module slots, each of which can have a 1000 W PoE or 600 W PoE power module installed. Pluggable AC and DC PoE power modules can be used together in the same switch.

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Table 4-1121 Power supply configurations

Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (220 V) 1000 W DC	–	682 W	• 802.3af (15.4 W per port): 44 • 802.3at (30 W per port): 22 • 802.3bt (60 W per port): 11 • 802.3bt (90 W per port): 7
1000 W AC (110 V)	–	587 W	• 802.3af (15.4 W per port): 38 • 802.3at (30 W per port): 19 • 802.3bt (60 W per port): 9 • 802.3bt (90 W per port): 6
1000 W AC (220 V) 1000 W DC	1000 W AC (220 V) 1000 W DC	1632 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 27 • 802.3bt (90 W per port): 18
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1442 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48 • 802.3bt (60 W per port): 24 • 802.3bt (90 W per port): 16
600 W AC (220 V)	–	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3

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Power Module 1	Power Module 2	Available PoE Power	Maximum Number of Ports (Fully Loaded)
600 W AC (220 V)	600 W AC (220 V)	872 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 29 • 802.3bt (60 W per port): 14 • 802.3bt (90 W per port): 9
600 W AC (110 V)	600 W AC (110 V)	302 W	• 802.3af (15.4 W per port): 19 • 802.3at (30 W per port): 10 • 802.3bt (60 W per port): 5 • 802.3bt (90 W per port): 3
1000 W AC (220 V) 1000 W DC	600 W AC (220 V)	1252 W	• 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 41 • 802.3bt (60 W per port): 20 • 802.3bt (90 W per port): 13

NOTE

When a switch has two power modules installed, the two power modules work in redundancy mode to provide power for the chassis and in load balancing mode to provide power for PDs.

The preceding maximum available PoE power values are obtained in scenarios where cards are installed on a switch. If no card is used, the power consumption of the cards needs to be excluded, and the actual maximum available PoE power increases accordingly.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, right, and front sides, and exhausts from the rear panel.

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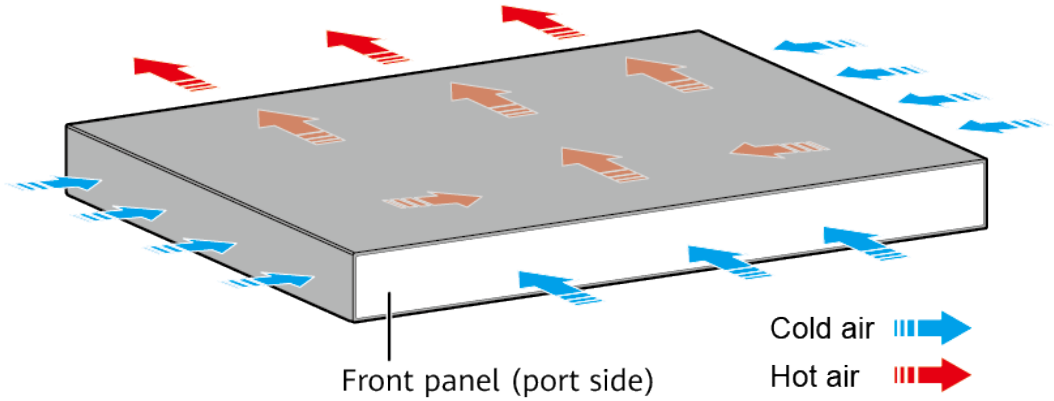

NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-1122 Technical specifications of the S5732-H48UM4Y2CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.59 kg (16.73 lb)
Weight with packaging [kg(lb)]	9.53 kg (21.01 lb)
Typical power consumption [W]	210 W
Typical heat dissipation [BTU/hour]	716.54 BTU/hour
Maximum power consumption [W]	• Without PoE: 297 W (without cards) • Full PoE load: 2013 W (PoE: 1632 W, without cards)

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Item	Specification
Maximum heat dissipation [BTU/hour]	• Without PoE: 1013.39 (without cards) • Full PoE load: 6868.56 (without cards)
Static power consumption [W]	129 W
MTBF [years]	42.49 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 49.2 dBA Dual 1000 W AC PoE power modules with 30% load: 51.2 dBA Dual 1000 W DC PoE power modules with 30% load: 51.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	Dual 600 W AC PoE power modules with 30% load: 35.52 dBA Dual 1000 W AC PoE power modules with 30% load: 37.52 dBA Dual 1000 W DC PoE power modules with 30% load: 37.52 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH, non-condensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported

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Item	Specification
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left, front, and right and air exhaust from rear
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification

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