4.23.9 S5731-S48S4X-A

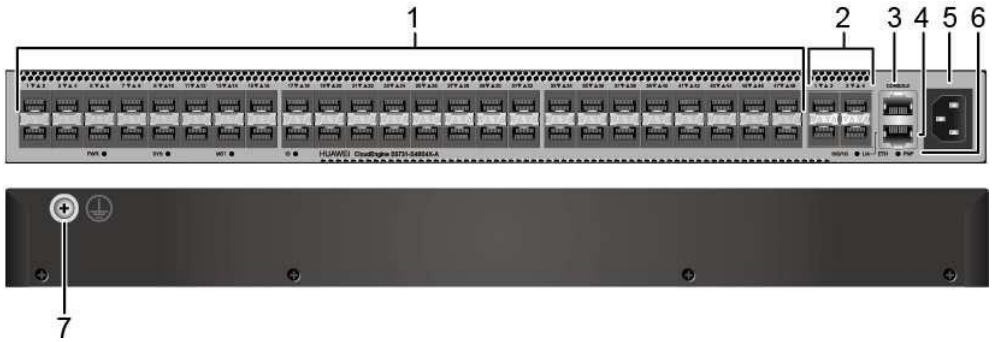
Overview

Table 4-1165 Basic information about the S5731-S48S4X-A

Item	Details
Description	S5731-S48S4X-A(48*GE SFP ports, 4*10GE SFP+ ports, AC power, front access)
Part Number	98011801
Model	S5731-S48S4X-A
First supported version	V200R021C01

Components

Figure 4-470 S5731-S48S4X-A appearance



1	Forty-eight 100/1000BASE-X ports	2	Four 10GE SFP+ ports
3	One console port	4	One ETH management port
5	AC socket **NOTE** It is used with an 9.8 AC Power Cable.	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 9.1 Ground Cable.	-	-

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Ports

Table 4-1166 Ports on the S5731-S48S4X-A

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.	• 10.4 FE SFP/eSFP Optical Modules • 10.5 GE eSFP Optical Modules • 10.7 GE-CWDM eSFP Optical Modules • 10.9 GE-DWDM eSFP Optical Modules • 10.10 GE SFP Copper 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.	• 10.5 GE eSFP Optical Modules • 10.7 GE-CWDM eSFP Optical Modules • 10.9 GE-DWDM eSFP Optical Modules • 10.10 GE SFP Copper Modules • 10.12 10GE SFP+ Optical Modules • 10.13 10GE-CWDM SFP+ Optical Modules • 10.14 10GE-DWDM SFP+ Optical Modules • 9.15 Copper Cable • 9.3 Optical Fiber • 9.14 Dedicated Stack Cable
Console port	RJ45	The console port is connected to a console for on-site	9.13 Console Cable

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Port	Connector Type	Description	Available Components
		configuration.	
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. You can choose to download the software package through the ETH management port in the BootLoad menu. File transfer through the ETH management port is faster than transfer through the console port.	9.4 Ethernet Cable

Indicators and Buttons

The S5731-S48S4X-A has the same types of indicators as the S5731-S32ST4X-A. For details, see the S5731-S32ST4X-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 front panel, and exhausts from the right side.

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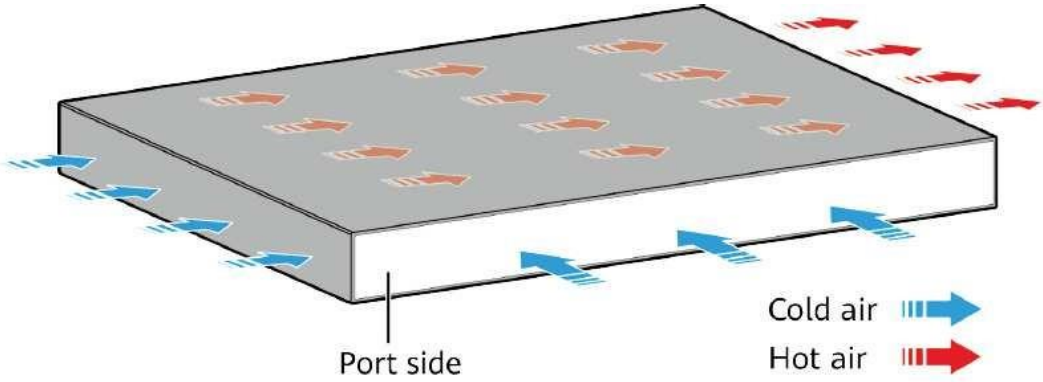

NOTE

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

Technical Specifications

Table 4-1167 Technical specifications of the S5731-S48S4X-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 17.40 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 442.0 mm x 227.0 mm (1.72 in. x 17.40 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90 mm x 550 mm x 355 mm (3.54 in. x 21.65 in. x 13.98 in.)
Chassis height [U]	1 U
Weight without packaging [kg(lb)]	3.49 kg (7.69 lb)
Weight with packaging [kg(lb)]	4.85 kg (10.69 lb)
Typical power consumption [W]	87.89 W
Typical heat dissipation [BTU/hour]	299.89 BTU/hour
Maximum power consumption [W]	121.04 W
Maximum heat dissipation [BTU/hour]	413.00 BTU/hour
MTBF [year]	31.39 year
MTTR [hour]	2 hour
Availability	>0.99999
Noise at normal temperature (acoustic power) [dB(A)]	41.42 dB(A)

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Item	Specification
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 0-1800 m (0-5906 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5906 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 can exceed 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% to 95%, noncondensing
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 264 V AC, 47 Hz to 63 Hz • High-voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	3 A
Memory	2 GB
Flash memory	The physical space is 1 GB. You can run the display version command to view the actual available space.
Console port	RJ45
Eth Management port	RJ45
USB	Not supported
RTC	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
Types of fans	Built-in
Heat dissipation mode	Heat dissipation with fan, 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

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