

S5735-S48P4XE-V2 (98012053)

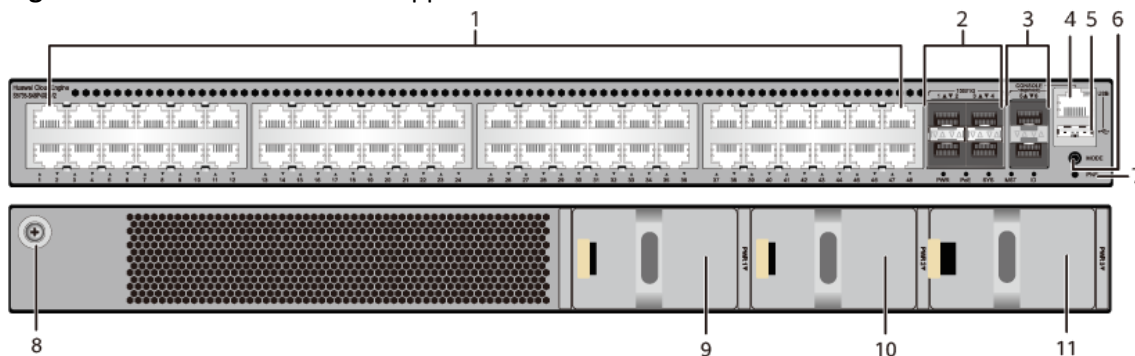
Overview

Table 4-484 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

Components

Figure 4-165 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.	8	Ground screw NOTE: It is used with a ground cable .

	<p>To reset the switch, press the button.</p> <p>Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.</p>		
9	<p>Power module slot 1</p> <p>NOTE:</p> <p>Applicable power modules:</p> <ul style="list-style-type: none"> • PAC600S56-EB • PAC1000S56-EB (02314APU) • PAC1000S56-EB (02314APU-001) • PDC1000S56-EB 	10	<p>Power module slot 2</p> <p>NOTE:</p> <p>Applicable power modules:</p> <ul style="list-style-type: none"> • PAC600S56-EB • PAC1000S56-EB (02314APU) • PAC1000S56-EB (02314APU-001) • PDC1000S56-EB
11	<p>Power module slot 3</p> <p>NOTE:</p> <p>Applicable power modules:</p> <ul style="list-style-type: none"> • PAC600S56-EB • PAC1000S56-EB (02314APU) • PAC1000S56-EB (02314APU-001) • PDC1000S56-EB 	-	-

Ports

Table 4-485 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	Ethernet cable

Port	Connector Type	Description	Available Components
		service data at 10/100/1000 Mbit/s.	
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.	<ul style="list-style-type: none"> • 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

Port	Connector Type	Description	Available Components
			<p>cables (only used for stack connection in versions earlier than V600R023C00)</p> <ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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 cable

Port	Connector Type	Description	Available Components
		console for on-site configuration.	
USB port	USB 2.0 Type A	<p>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.</p> <p>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.</p>	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 4-486 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	<ul style="list-style-type: none"> • 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28
1000 W AC (110 V)	–	–	756 W	<ul style="list-style-type: none"> • 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 25
1000 W DC	–	–	846 W	<ul style="list-style-type: none"> • 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 28
600 W AC (220 V)	–	–	513 W	<ul style="list-style-type: none"> • 802.3af (15.4 W per port): 33 • 802.3at (30 W per port): 17
600 W AC (110 V)	–	–	228 W	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48

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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 802.3af (15.4 W per port): 48 • 802.3at (30 W per port): 48

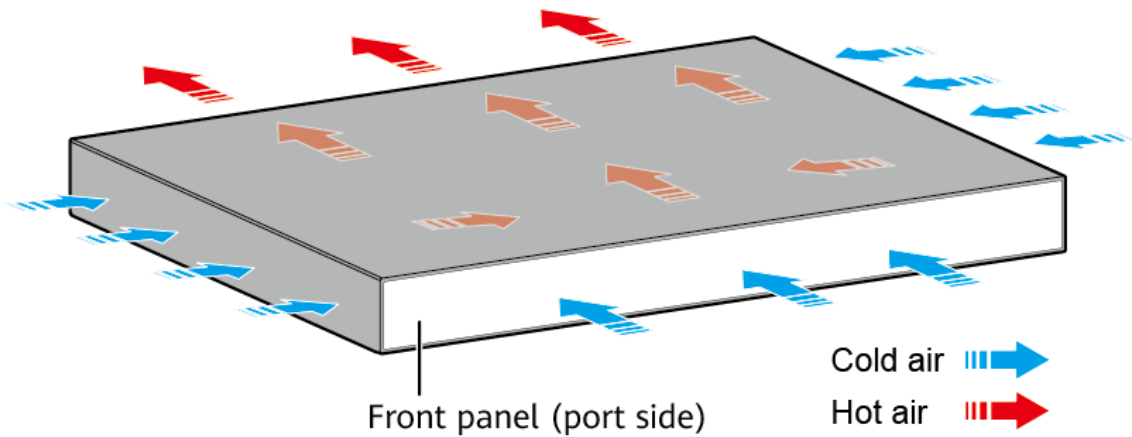
Power Module 1	Power Module 2	Power Module 3	Available PoE Power	Maximum Number of Ports (Fully Loaded)
1000 W AC (110 V) 1000 W DC	1000 W AC (110 V) 1000 W DC	1000 W AC (110 V)	1680 W	<ul style="list-style-type: none"> 802.3af (15.4 W per port): 48 802.3at (30 W per port): 48
600 W AC (110 V)	600 W AC (110 V)	600 W AC (110 V)	798 W	<ul style="list-style-type: none"> 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 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 4-487 Technical specifications of the S5735-S48P4XE-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	<p>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.)</p> <p>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.)</p>
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
Maximum power consumption [W]	<p>- Without PoE:</p> <p>62.90 W (with two 600 W AC power modules)</p> <p>67.20 W (with two 1000 W AC power modules)</p> <p>76.93 W (with two 1000 W DC power modules)</p> <p>- Full PoE load:</p> <p>1931.44 W (PoE: 1680 W, with three 1000 W AC power modules)</p>
Maximum heat dissipation [BTU/hour]	- Without PoE:

Item	Specification
	<p>214.62 (with two 600 W AC power modules)</p> <p>227.93 (with two 1000 W AC power modules)</p> <p>261.47 (with two 1000 W DC power modules)</p> <p>- Full PoE load: 6590.27 (PoE: 5732.33, with three 1000 W AC power modules)</p>
Static power consumption [W]	33.99 W
MTBF [years]	79.02 years
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	<p>Three 600 W AC PoE power modules with 30% load: 50 dBA</p> <p>Three 1000 W AC PoE power modules with 30% load: 49.9 dBA</p> <p>Three 1000 W DC PoE power modules with 30% load: 48.5 dBA</p>
Noise at normal temperature (acoustic pressure) [dB(A)]	<p>Three 600 W AC PoE power modules with 30% load: 38 dBA</p> <p>Three 1000 W AC PoE power modules with 30% load: 37.9 dBA</p> <p>Three 1000 W DC PoE power modules with 30% load: 36.5 dBA</p>
Number of card slots	0
Number of power slots	3
Number of fans modules	2
Redundant power supply	1+1+1

Item	Specification
	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)]	<p>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.).</p> <p>Devices cannot start when the temperature is lower than 0°C (32°F).</p>
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]	<ul style="list-style-type: none"> • 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]	<ul style="list-style-type: none"> • 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

Item	Specification
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]	<ul style="list-style-type: none"> • 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

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