

H3C S5590-HI[EI] Switch Series

Hardware Information and Specifications

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Environmental protection

This product has been designed to comply with the environmental protection requirements. The storage, use, and disposal of this product must meet the applicable national laws and regulations.

Preface

Hardware Information and Specifications describes product models, technical specifications, ports, and LEDs.

Audience

This documentation is intended for:

- Network planners.
- Technical support and servicing engineers.
- Network administrators.

Conventions

The following information describes the conventions used in the documentation.

Symbols

Convention	Description
 WARNING!	An alert that calls attention to important information that if not understood or followed can result in personal injury.
 CAUTION:	An alert that calls attention to important information that if not understood or followed can result in data loss, data corruption, or damage to hardware or software.
 IMPORTANT:	An alert that calls attention to essential information.
NOTE:	An alert that contains additional or supplementary information.
 TIP:	An alert that provides helpful information.

Command conventions

Convention	Description
Boldface	Bold text represents commands and keywords that you enter literally as shown.
<i>Italic</i>	<i>Italic</i> text represents arguments that you replace with actual values.
[]	Square brackets enclose syntax choices (keywords or arguments) that are optional.
{ x y ... }	Braces enclose a set of required syntax choices separated by vertical bars, from which you select one.
[x y ...]	Square brackets enclose a set of optional syntax choices separated by vertical bars, from which you select one or none.
{ x y ... } *	Asterisk marked braces enclose a set of required syntax choices separated by vertical bars, from which you select a minimum of one.
[x y ...] *	Asterisk marked square brackets enclose optional syntax choices separated by vertical bars, from which you select one choice, multiple choices, or none.
&<1-n>	The argument or keyword and argument combination before the ampersand (&) sign can be entered 1 to n times.
#	A line that starts with a pound (#) sign is comments.

GUI conventions

Convention	Description
Boldface	Window names, button names, field names, and menu items are in Boldface. For example, the New User window opens; click OK .
>	Multi-level menus are separated by angle brackets. For example, File > Create > Folder .

Examples provided in this document

Examples in this document might use devices that differ from your device in hardware model, configuration, or software version. It is normal that the physical port numbers, sample output, screenshots, and other information in the examples differ from what you have on your device.

Documentation feedback

You can e-mail your comments about product documentation to info@h3c.com.

We appreciate your comments.

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1 Product models and technical specifications

Unless otherwise stated, interface modules and interface cards are used interchangeably in this document.

Product models

Table1-1 Switch series and models

Switch series		Model	Product code (PID)
S5590-HI switch series	Non-PoE models	S5590-28T8XC-HI	LS-5590-28T8XC-HI
		S5590-48T4XC-HI	LS-5590-48T4XC-HI
		S5590-28S8XC-HI	LS-5590-28S8XC-HI
		S5590-48S4XC-HI	LS-5590-48S4XC-HI
S5590-EI switch series	Non-PoE models	S5590-28T8XC-EI	LS-5590-28T8XC-EI
			LS-5590-28T8XC-EI-GL
			LS-5590-28T8XC-EI-H3
			LS-5590-28T8XC-EI-G3
		S5590-48T4XC-EI	LS-5590-48T4XC-EI
			LS-5590-48T4XC-EI-GL
			LS-5590-48T4XC-EI-H3
			LS-5590-48T4XC-EI-G3
		S5590-28S8XC-EI	LS-5590-28S8XC-EI
			LS-5590-28S8XC-EI-GL
			LS-5590-28S8XC-EI-G3
		S5590-48S4XC-EI	LS-5590-48S4XC-EI
			LS-5590-48S4XC-EI-GL
			LS-5590-48S4XC-EI-G3
		S5590-24X4YC-EI	LS-5590-24X4YC-EI
		S5590-48TS4X2QC-EI	LS-5590-48TS4X2QC-EI
		S5590-8N24NS6X-EI	LS-5590-8N24NS6X-EI-G1
		S5590-48NS6X-EI	LS-5590-48NS6X-EI-G1
	PoE models	S5590-28P8XC-EI	LS-5590-28P8XC-EI
			LS-5590-28P8XC-EI-GL
			LS-5590-28P8XC-EI-G3

Switch series		Model	Product code (PID)
		S5590-48P6XC-EI	LS-5590-48P6XC-EI
			LS-5590-48P6XC-EI-GL
			LS-5590-48P6XC-EI-G3
		S5590-24UXM4YC-EI	LS-5590-24UXM4YC-EI
			LS-5590-24UXM4YC-EI-GL
		S5590-48UXM4YC-EI	LS-5590-48UXM4YC-EI
			LS-5590-48UXM4YC-EI-GL
		S5590-24UXMC-EI	LS-5590-24UXMC-EI
		S5590-16UN16UM4YC-EI	LS-5590-16UN16UM4YC-EI-G1
		S5590-32UN4X4Y2CC-EI	LS-5590-32UN4X4Y2CC-EI-G1
		S5590-32UN16UM4YC-EI	LS-5590-32UN16UM4YC-EI-G1
		S5590-48UM4YC-EI	LS-5590-48UM4YC-EI-G1
		S5590-48UN4Y2CC-EI	LS-5590-48UN4Y2CC-EI-G1

NOTE:

- Switches of the same model but different PIDs might differ in hardware and software features. You can view the PID of a switch on the label located on its rear panel or top panel.
- To obtain the purchase information, see the product data sheet at https://www.h3c.com/en/Products_and_Solutions/InterConnect/Switches/ and pay attention to the switch product lifecycle management announcement at https://www.h3c.com/en/Support/Policy_Dynamics/Management_Strategy/Products_End_of_Life_Announcement/Switches/.
- For information about product and software compatibility, see the release notes.

S5590-HI switch series technical specifications

Table1-2 Technical specifications

Item	S5590-28T8XC-H I	S5590-48T4XC-H I	S5590-28S8XC-H I	S5590-48S4XC-H I
Physical specifications				
Dimensions (H × W × D)	44 × 440 × 400 mm (1.73 × 17.32 × 15.75 in)			
Dimensions (H × W × D, with package materials)	148 × 575 × 520 mm (5.83 × 22.64 × 20.47 in)			
Weight (fully configured with power)	≤ 8 kg (17.64 lb)			

Item	S5590-28T8XC-H I	S5590-48T4XC-H I	S5590-28S8XC-H I	S5590-48S4XC-H I
supplies and fan trays)				
Technical specifications				
Memory (RAM)	4 GB			
Flash	1 GB			
Port types and quantity				
Console port	1 × serial console port			
USB port	1			
Management Ethernet port	1			
SFP+ port	8	4	8	4
SFP port	4 (Each and its corresponding 10/100/1000BASE-T autosensing Ethernet port form a combo interface.)	N/A	28 (The four highest-numbered SFP ports and their corresponding 10/100/1000BASE-T autosensing Ethernet ports form combo interfaces.)	48 (The four highest-numbered SFP ports cannot be used when the port rate mode of the expansion slots is mode2.)
10/100/1000BASE-T autosensing Ethernet port	28 (The four highest-numbered 10/100/1000BASE-T autosensing Ethernet ports and their corresponding SFP ports form combo interfaces.)	48 (The four highest-numbered 10/100/1000BASE-T autosensing Ethernet ports cannot be used when the port rate mode of the expansion slots is mode 2.)	4 (Each and its corresponding SFP port form a combo interface.)	N/A
Fan tray, power supply, and expansion card slots				
Expansion slot	2			
Power supply slot	2			
Fan tray slot	2			
Power supply specifications				
Power input	AC input			
Power specifications	See " Removable power supplies "			
System power consumption				
Power consumption (static)	Single power input: 42 W	Single power input: 44 W	Single power input: 43 W	Single power input: 47 W
Data collection	Dual power inputs: 47 W	Dual power inputs: 50 W	Dual power inputs: 49 W	Dual power inputs: 55 W

Item	S5590-28T8XC-H I	S5590-48T4XC-H I	S5590-28S8XC-H I	S5590-48S4XC-H I
standard: no load				
Power consumption (typical) Data collection standard: fully configured with copper cables or network cables, at 30% load	Single power input: 57 W Dual power inputs: 60 W	Single power input: 67 W Dual power inputs: 70 W	Single power input: 54 W Dual power inputs: 57 W	Single power input: 62 W Dual power inputs: 65 W
Power consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, at 100% load	Single power input: 136 W Dual power inputs: 141 W	Single power input: 132 W Dual power inputs: 136 W	Single power input: 138 W Dual power inputs: 142 W	Single power input: 152 W Dual power inputs: 156 W
System thermal consumption				
Thermal consumption (static) Data collection standard: no load	Single power input: 143 BTU/h Dual power inputs: 160 BTU/h	Single power input: 150 BTU/h Dual power inputs: 170 BTU/h	Single power input: 146 BTU/h Dual power inputs: 167 BTU/h	Single power input: 160 BTU/h Dual power inputs: 187 BTU/h
Thermal consumption (typical) Data collection standard: fully configured with copper cables or network cables, at 30% load	Single power input: 194 BTU/h Dual power inputs: 204 BTU/h	Single power input: 228 BTU/h Dual power inputs: 238 BTU/h	Single power input: 184 BTU/h Dual power inputs: 194 BTU/h	Single power input: 211 BTU/h Dual power inputs: 221 BTU/h
Thermal consumption (full load) Data collection standard: fully configured with	Single power input: 464 BTU/h Dual power inputs: 481 BTU/h	Single power input: 450 BTU/h Dual power inputs: 464 BTU/h	Single power input: 470 BTU/h Dual power inputs: 484 BTU/h	Single power input: 518 BTU/h Dual power inputs: 532 BTU/h

Item	S5590-28T8XC-H 	S5590-48T4XC-H 	S5590-28S8XC-H 	S5590-48S4XC-H
transceiver modules or network cables, at 100% load				
Heat dissipation				
Heat dissipation method	Air cooling			
Ventilation aisle	Front-to-rear or rear-to-front airflow, determined by the selected fan tray model			
Reliability and availability				
Power supply redundancy	1+1			
Fan tray redundancy	The switch must be fully configured with fan trays.			
Hot swapping	Power supplies and fan trays support hot swapping. Expansion cards support hot swapping, but do not hot swap an expansion card when the switch is starting up.			
Mean Time Between Failure (MTBF) (year)	90.99	101.63	95.79	92.43
Mean time to repair (MTTR) (hour)	1	1	1	1
Availability	99.999876%	99.999863%	99.999882%	99.999879%
Environment specifications				
Sound pressure level at 27°C (80.6°F)	47.6 dB	49 dB	48 dB	48.8 dB
Altitude	0 m to 5000 m (0 ft to 16404.20 ft)			
Operating temperature	–5°C to +45°C (23°F to 113°F) Note: The allowed maximum temperature decreases by 0.33 °C (0.59°F) as the altitude increases by 100 m (328.08 ft) from 0 m (0 ft).			
Storage temperature	–40°C to +70°C (–40°F to +158°F)			
Operating humidity	5% RH to 95% RH, noncondensing			
Compliance				
Product compliance	• Safety standards • EMC standards • Environmental and eco-friendly standards			

S5590-EI switch series technical specifications

Table1-3 Technical specifications for non-PoE switch models (1)

Item	S5590-28T8XC-EI (LS-5590-28T8XC-EI/LS-5590-28T8XC-EI-G3)	S5590-28T8XC-EI (LS-5590-28T8XC-EI-GL/LS-5590-28T8XC-EI-H3)	S5590-48T4XC-EI (LS-5590-48T4XC-EI/LS-5590-48T4XC-EI-G3)	S5590-48T4XC-EI (LS-5590-48T4XC-EI-GL/LS-5590-48T4XC-EI-H3)
Physical specifications				
Dimensions (H × W × D)	44 × 440 × 360 mm (1.73 × 17.32 × 14.17 in)			
Dimensions (H × W × D, with package materials)	125 × 562 × 550 mm (4.92 × 22.13 × 21.65 in)	LS-5590-28T8XC-EI-GL: 125 × 580 × 562 mm (4.92 × 22.83 × 22.13 in) LS-5590-28T8XC-EI-H3: 125 × 562 × 550 mm (4.92 × 22.13 × 21.65 in)	125 × 562 × 550 mm (4.92 × 22.13 × 21.65 in)	LS-5590-48T4XC-EI-GL: 125 × 580 × 562 mm (4.92 × 22.83 × 22.13 in) LS-5590-48T4XC-EI-H3: 125 × 562 × 550 mm (4.92 × 22.13 × 21.65 in)
Weight (fully configured with power supplies and fan trays)	≤ 7 kg (15.43 lb)			
Technical specifications				
Memory (RAM)	2 GB			
Flash	4 GB			
Port types and quantity				
Console port	1 × serial console port			
USB port	1			
Management Ethernet port	1			
SFP+ port	8	8	4	4
SFP port	4 (Each and its corresponding 10/100/1000BASE-T autosensing Ethernet port form a combo interface.)	4 (Each and its corresponding 10/100/1000BASE-T autosensing Ethernet port form a combo interface.)	N/A	N/A
10/100/1000BASE-T autosensing Ethernet port	28 (The four highest-numbered 10/100/1000BASE-T autosensing Ethernet ports and their corresponding SFP ports form combo interfaces.)	28 (The four highest-numbered 10/100/1000BASE-T autosensing Ethernet ports and their corresponding SFP ports form combo interfaces.)	48	48

Item	S5590-28T8XC-EI (LS-5590-28T8XC-EI/LS-5590-28T8XC-EI-G3)	S5590-28T8XC-EI (LS-5590-28T8XC-EI-GL/LS-5590-28T8XC-EI-H3)	S5590-48T4XC-EI (LS-5590-48T4XC-EI/LS-5590-48T4XC-EI-G3)	S5590-48T4XC-EI (LS-5590-48T4XC-EI-GL/LS-5590-48T4XC-EI-H3)
Fan tray, power supply, and expansion card slots				
Expansion slot	1			
Power supply slot	2			
Fan tray slot	2			
Power supply specifications				
Power input	AC input, DC input Note: The S5590-EI switch series does not support HVDC input. For DC input, you can use a –48 VDC power source in the equipment room or an RPS (H3C RPS1600-A).			
Power specifications	See " Removable power supplies "			
System power consumption				
Power consumption (static) Data collection standard: no load	Single power input: 38 W Dual power inputs: 45 W	Single power input: 39 W Dual power inputs: 46 W	Single power input: 41 W Dual power inputs: 48 W	Single power input: 42 W Dual power inputs: 48 W
Power consumption (typical) Data collection standard: fully configured with copper cables or network cables, at 30% load	N/A	Single power input: 52 W Dual power inputs: 58 W	N/A	Single power input: 65 W Dual power inputs: 70 W
Power consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, at 100% load	Single power input: 108 W Dual power inputs: 114 W	Single power input: 110 W Dual power inputs: 115 W	Single power input: 105 W Dual power inputs: 108 W	Single power input: 115 W Dual power inputs: 120 W

Item	S5590-28T8XC-EI (LS-5590-28T8XC-EI/LS-5590-28T8XC-EI-G3)	S5590-28T8XC-EI (LS-5590-28T8XC-EI-GL/LS-5590-28T8XC-EI-H3)	S5590-48T4XC-EI (LS-5590-48T4XC-EI/LS-5590-48T4XC-EI-G3)	S5590-48T4XC-EI (LS-5590-48T4XC-EI-GL/LS-5590-48T4XC-EI-H3)
System thermal consumption				
Thermal consumption (static) Data collection standard: no load	Single power input: 129 BTU/h Dual power inputs: 153 BTU/h	N/A	Single power input: 139 BTU/h Dual power inputs: 163 BTU/h	N/A
Thermal consumption (typical) Data collection standard: fully configured with copper cables or network cables, at 30% load	Single power input: 191 BTU/h Dual power inputs: 201 BTU/h	N/A	Single power input: 221 BTU/h Dual power inputs: 232 BTU/h	N/A
Thermal consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, at 100% load	Single power input: 368 BTU/h Dual power inputs: 388 BTU/h	N/A	Single power input: 358 BTU/h Dual power inputs: 368 BTU/h	N/A
Heat dissipation				
Heat dissipation method	Air cooling			
Ventilation aisle	Front-to-rear or rear-to-front airflow, determined by the selected fan tray model			
Reliability and availability				
Power supply redundancy	1+1			
Fan tray redundancy	The switch must be fully configured with fan trays.			
Hot swapping	Power supplies and fan trays support hot swapping. Expansion cards support hot swapping, but do not hot swap an expansion card when the switch is starting up.			

Item	S5590-28T8XC-EI (LS-5590-28T8XC-EI/LS-5590-28T8XC-EI-G3)	S5590-28T8XC-EI (LS-5590-28T8XC-EI-GL/LS-5590-28T8XC-EI-H3)	S5590-48T4XC-EI (LS-5590-48T4XC-EI/LS-5590-48T4XC-EI-G3)	S5590-48T4XC-EI (LS-5590-48T4XC-EI-GL/LS-5590-48T4XC-EI-H3)
MTBF (year)	105.15	105.15	101.63	101.63
MTTR (hour)	1	1	1	1
Availability	99.999893%	99.999893%	99.999888%	99.999888%
Environment specifications				
Sound pressure level at 27°C (80.6°F)	49 dB	49 dB	46.6 dB	46.6 dB
Altitude	0 m to 5000 m (0 ft to 16404.20 ft)			
Operating temperature	-5°C to +45°C (23°F to 113°F) Note: The allowed maximum temperature decreases by 0.33 °C (0.59°F) as the altitude increases by 100 m (328.08 ft) from 0 m (0 ft).			
Storage temperature	-40°C to +70°C (-40°F to +158°F)			
Operating humidity	5% RH to 95% RH, noncondensing			
Compliance				
Product compliance	- Safety standards - EMC standards - Environmental and eco-friendly standards			

Table1-4 Technical specifications for non-PoE switch models (2)

Item	S5590-24X4YC-EI	S5590-48TS4X2QC-EI	S5590-28S8XC-EI (LS-5590-28S8XC-EI-GL/LS-5590-28S8XC-EI)	S5590-48S4XC-EI (LS-5590-48S4XC-EI-GL/LS-5590-48S4XC-EI)
Physical specifications				
Dimensions (H × W × D)	44 × 440 × 360 mm (1.73 × 17.32 × 14.17 in)			
Dimensions (H × W × D, with package materials)	125 × 580 × 562 mm (4.92 × 22.83 × 22.13 in)	125 × 580 × 562 mm (4.92 × 22.83 × 22.13 in)	LS-5590-28S8XC-EI-GL: 125 × 580 × 562 mm (4.92 × 22.83 × 22.13 in) LS-5590-28S8XC-EI: 125 × 562 × 550 mm (4.92 × 22.13 × 21.65 in)	LS-5590-48S4XC-EI-GL: 125 × 580 × 562 mm (4.92 × 22.83 × 22.13 in) LS-5590-48S4XC-EI: 125 × 562 × 550 mm (4.92 × 22.13 × 21.65 in)
Weight (fully configured with power supplies and	≤ 7 kg (15.43 lb)			

Item	S5590-24X4YC-EI	S5590-48TS4X2QC-EI	S5590-28S8XC-EI (LS-5590-28S8XC-EI-GL/LS-5590-28S8XC-EI)	S5590-48S4XC-EI (LS-5590-48S4XC-EI-GL/LS-5590-48S4XC-EI)
fan trays)				
Technical specifications				
Memory (RAM)	2 GB	2 GB	2 GB	2 GB
Flash	8 GB	8 GB	4 GB	4 GB
Port types and quantity				
Console port	1 × serial console port			
USB port	1			
Management Ethernet port	1			
SFP+ port	24	4	8	4
SFP port	N/A	24	28 (The four highest-numbered SFP ports and their corresponding 10/100/1000BASE-T autosensing Ethernet ports form combo interfaces.)	48
SFP28 port	4	N/A	N/A	N/A
QSFP+ port	N/A	2	N/A	N/A
10/100/1000BASE-T autosensing Ethernet port	N/A	24	4 (Each and its corresponding SFP port form a combo interface.)	N/A
Fan tray, power supply, and expansion card slots				
Expansion slot	1			
Power supply slot	2			
Fan tray slot	2			
Power supply specifications				
Power input	AC input, DC input Note: The S5590-EI switch series does not support HVDC input. For DC input, you can use a –48 VDC power source in the equipment room or an RPS (H3C RPS1600-A).			
Power specifications	See " Removable power supplies "			

Item	S5590-24X4YC-EI	S5590-48TS4X2QC-EI	S5590-28S8XC-EI (LS-5590-28S8XC-EI-GL/LS-5590-28S8XC-EI)	S5590-48S4XC-EI (LS-5590-48S4XC-EI-GL/LS-5590-48S4XC-EI)
System power consumption				
Power consumption (static) Data collection standard: no load	Single AC input: 30 W Dual AC inputs: 37 W Single DC input: 29 W Dual DC inputs: 36 W	Single AC input: 40 W Dual AC inputs: 43 W Single DC input: 34 W Dual DC inputs: 42 W	Single power input: 39 W Dual power inputs: 46 W	Single power input: 42 W Dual power inputs: 49 W
Power consumption (typical) Data collection standard: fully configured with copper cables or network cables, at 30% load	Single AC input: 40 W Dual AC inputs: 47 W Single DC input: 39 W Dual DC inputs: 46 W	Single AC input: 56 W Dual AC inputs: 64 W Single DC input: 57 W Dual DC inputs: 64 W	Single power input: 43 W Dual power inputs: 50 W	Single power input: 48 W Dual power inputs: 53 W
Power consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, at 100% load	Single AC input: 95 W Dual AC inputs: 102 W Single DC input: 93 W Dual DC inputs: 98 W	Single AC input: 120 W Dual AC inputs: 125 W Single DC input: 120 W Dual DC inputs: 125 W	Single power input: 119 W Dual power inputs: 123 W	Single power input: 137 W Dual power inputs: 142 W
System thermal consumption				
Thermal consumption (static) Data collection standard: no load	Single AC input: 102.36 BTU/h Dual AC inputs: 126.25 BTU/h Single DC input: 98.95 BTU/h Dual DC inputs: 122.84 BTU/h	Single AC input: 136.49 BTU/h Dual AC inputs: 146.72 BTU/h Single DC input: 116.01 BTU/h Dual DC inputs: 143.31 BTU/h	Single power input: 133 BTU/h Dual power inputs: 156 BTU/h	Single power input: 143 BTU/h Dual power inputs: 167 BTU/h
Thermal consumption (typical) Data collection standard: fully configured	Single AC input: 136.49 BTU/h Dual AC inputs: 160.37 BTU/h Single DC input: 133.07 BTU/h	Single AC input: 191.08 BTU/h Dual AC inputs: 218.38 BTU/h Single DC input: 194.49 BTU/h	Single power input: 170 BTU/h Dual power inputs: 180 BTU/h	Single power input: 177 BTU/h Dual power inputs: 187 BTU/h

Item	S5590-24X4YC-EI	S5590-48TS4X2QC-EI	S5590-28S8XC-EI (LS-5590-28S8XC-EI-GL/LS-5590-28S8XC-EI)	S5590-48S4XC-EI (LS-5590-48S4XC-EI-GL/LS-5590-48S4XC-EI)
with copper cables or network cables, at 30% load	Dual DC inputs: 156.96 BTU/h	Dual DC inputs: 218.38 BTU/h		
Thermal consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, at 100% load	Single AC input: 324.15 BTU/h Dual AC inputs: 348.04 BTU/h Single DC input: 317.33 BTU/h Dual DC inputs: 334.39 BTU/h	Single AC input: 409.46 BTU/h Dual AC inputs: 426.52 BTU/h Single DC input: 409.46 BTU/h Dual DC inputs: 426.52 BTU/h	Single power input: 406 BTU/h Dual power inputs: 419 BTU/h	Single power input: 467 BTU/h Dual power inputs: 484 BTU/h
Heat dissipation				
Heat dissipation method	Air cooling			
Ventilation aisle	Front-to-rear or rear-to-front airflow, determined by the selected fan tray model			
Reliability and availability				
Power supply redundancy	1+1			
Fan tray redundancy	The switch must be fully configured with fan trays.			
Hot swapping	Power supplies and fan trays support hot swapping. Expansion cards support hot swapping, but do not hot swap an expansion card when the switch is starting up.			
MTBF (year)	113.68	82.8	101.74	101.01
MTTR (hour)	1	1	1	1
Availability	99.99901%	99.999863%	99.999898%	99.999885%
Environment specifications				
Sound pressure level at 27°C (80.6°F)	40.9 dB	40.9 dB	46.6 dB	47.4 dB
Altitude	0 m to 5000 m (0 ft to 16404.20 ft)			
Operating temperature	-5°C to +45°C (23°F to 113°F) Note: The allowed maximum temperature decreases by 0.33 °C (0.59°F) as the altitude increases by 100 m (328.08 ft) from 0 m (0 ft).			

Item	S5590-24X4YC-E I	S5590-48TS4X2 QC-EI	S5590-28S8XC-E I (LS-5590-28S8X C-EI-GL/LS-5590 -28S8XC-EI)	S5590-48S4XC-E I (LS-5590-48S4X C-EI-GL/LS-5590 -48S4XC-EI)
Storage temperature	–40°C to +70°C (–40°F to +158°F)			
Relative humidity	5% RH to 95% RH, noncondensing			
Compliance				
Product compliance	• Safety standards • EMC standards • Environmental and eco-friendly standards			

Table1-5 Technical specifications for non-PoE switch models (3)

Item	S5590-8N24NS6X-EI	S5590-48NS6X-EI
Physical specifications		
Dimensions (H × W × D)	44 × 440 × 360 mm (1.73 × 17.32 × 14.17 in)	44 × 440 × 360 mm (1.73 × 17.32 × 14.17 in)
Dimensions (H × W × D, with package materials)	105 × 570 × 552 mm (4.13 × 22.44 × 21.73 in)	105 × 570 × 552 mm (4.13 × 22.44 × 21.73 in)
Weight	≤ 6.4 kg (14.11 lb)	≤ 6.2 kg (13.67 lb)
Technical specifications		
Memory (RAM)	2 GB	2 GB
Flash	8 GB	8 GB
Port types and quantity		
Console port	• 1 × serial console port • 1 × USB type-C console port Only the USB type-C console port is available when you connect both ports.	
USB port	1	
Management Ethernet port	1	
2.5G/1000/100/10BASE-T autosensing Ethernet port	8	N/A
2.5G SFP port	24	48
SFP+ port	6	6
Fan tray, power supply, and expansion card slots		
Fan tray slot	2	2
Power supply	2	2

Item	S5590-8N24NS6X-EI	S5590-48NS6X-EI
slot		
Expansion slot	N/A	N/A
Power supply specifications		
Power input	AC input: - Rated voltage range: 100 VAC to 240 VAC - Max voltage range: 90 VAC to 290 VAC DC input: - Rated voltage range: –48 VDC to –60 VDC - Max voltage range: –36 VDC to –72 VDC	
Power specifications	See " Removable power supplies "	
System power consumption		
Power consumption (static) Data collection standard: no load	Single AC input: 36 W Dual AC inputs: 39 W Single DC input: 29 W Dual DC inputs: 34 W	Single AC input: 63 W Dual AC inputs: 66 W Single DC input: 45 W Dual DC inputs: 52 W
Power consumption (typical) Data collection standard: fully configured with copper cables or network cables, 30% traffic	Single AC input: 45 W Dual AC inputs: 48 W Single DC input: 52 W Dual DC inputs: 57 W	Single AC input: 78 W Dual AC inputs: 81 W Single DC input: 81 W Dual DC inputs: 87 W
Power consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, 100% traffic	Single AC input: 69 W Dual AC inputs: 72 W Single DC input: 81 W Dual DC inputs: 87 W	Single AC input: 100 W Dual AC inputs: 102 W Single DC input: 119 W Dual DC inputs: 123 W
System thermal consumption		
Thermal consumption (static) Data collection standard: no	Single AC input: 123 BTU/h Dual AC inputs: 134 BTU/h Single DC input: 99 BTU/h Dual DC inputs: 116 BTU/h	Single AC input: 215 BTU/h Dual AC inputs: 226 BTU/h Single DC input: 154 BTU/h Dual DC inputs: 178 BTU/h

Item	S5590-8N24NS6X-EI	S5590-48NS6X-EI
load		
Thermal consumption (typical) Data collection standard: fully configured with copper cables or network cables, at 30% traffic	Single AC input: 154 BTU/h Dual AC inputs: 164 BTU/h Single DC input: 178 BTU/h Dual DC inputs: 195 BTU/h	Single AC input: 267 BTU/h Dual AC inputs: 277 BTU/h Single DC input: 277 BTU/h Dual DC inputs: 297 BTU/h
Thermal consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, 100% traffic	Single AC input: 236 BTU/h Dual AC inputs: 246 BTU/h Single DC input: 277 BTU/h Dual DC inputs: 297 BTU/h	Single AC input: 342 BTU/h Dual AC inputs: 349 BTU/h Single DC input: 406 BTU/h Dual DC inputs: 420 BTU/h
Heat dissipation		
Heat dissipation method	Air cooling	
Ventilation aisle	Front-to-rear or rear-to-front airflow, determined by the selected fan tray model	
Reliability and availability		
Power supply redundancy	1+1	
Fan tray redundancy	The switch must be fully configured with fan trays.	
Hot swapping	Power supplies and fan trays support hot swapping. Expansion cards support hot swapping, but do not hot swap an expansion card when the switch is starting up.	
MTBF (year)	33	42
MTTR (hour)	1	
Availability	99.9997%	99.9997%
Environment specifications		
Sound pressure level at 27°C (80.6°F)	47.2 dB	47.2 dB
Altitude	0 m to 5000 m (0 ft to 16404.20 ft)	

Item	S5590-8N24NS6X-EI	S5590-48NS6X-EI
Operating temperature	-5°C to +45°C (23°F to 113°F) Note: The allowed maximum temperature decreases by 0.33 °C (0.59°F) as the altitude increases by 100 m (328.08 ft) from 0 m (0 ft).	
Storage temperature	-40°C to +70°C (-40°F to +158°F)	
Relative humidity	5% RH to 95% RH, noncondensing	
Compliance		
Product compliance	• Safety standards • EMC standards • Environmental and eco-friendly standards	

Table1-6 Technical specifications for PoE switch models (1)

Item	S5590-28P8XC-EI	S5590-48P6XC-EI
Physical specifications		
Dimensions (H × W × D)	44 × 440 × 400 mm (1.73 × 17.32 × 15.75 in)	
Dimensions (H × W × D, with package materials)	150 × 556 × 528 mm (5.91 × 21.89 × 20.79 in)	
Weight (fully configured with power supplies, fan trays, and expansion cards)	≤ 7 kg (15.43 lb)	
Technical specifications		
Memory (RAM)	2 GB	
Flash	4 GB	
Port types and quantity		
Console port	1 × serial console port	
USB port	1	
Management Ethernet port	1	
SFP+ port	8	6
SFP port	4 (Each and its corresponding 10/100/1000BASE-T autosensing Ethernet port form a combo interface.)	N/A
10/100/1000BASE-T autosensing	28 (The four highest-numbered 10/100/1000BASE-T autosensing Ethernet ports and their corresponding SFP ports	48

Item	S5590-28P8XC-EI	S5590-48P6XC-EI
Ethernet port	form combo interfaces.)	
Fan tray, power supply, and expansion card slots		
Expansion slot	1	
Power supply slot	2	
Fan tray slot	2	
Power supply specifications		
Power input	AC input	
Power specifications	See "Removable power supplies"	
PoE power capacity		
Max PoE power capacity per port	30 W or 35 W Note: The maximum PoE power capacity per port varies by software version. For more information about the maximum PoE power capacity per port, see the software release for the product or verify it on the switch.	
Total PoE power capacity	See Table1-17	
System power consumption		
Power consumption (static) Data collection standard: no load	Single power input: 48 W Dual power inputs: 53 W	Single power input: 52 W Dual power inputs: 59 W
Power consumption (typical) Data collection standard: fully configured with copper cables or network cables, at 30% load	Single power input: 48 W Dual power inputs: 53 W	Single power input: 73 W Dual power inputs: 86 W
Power consumption (full load) Data collection standard: fully configured with transceiver modules or	See Table1-11	

Item	S5590-28P8XC-EI	S5590-48P6XC-EI
network cables, at 100% load		
System thermal consumption		
Thermal consumption (static) Data collection standard: no load	Single power input: 164 BTU/h Dual power inputs: 181 BTU/h	Single power input: 177 BTU/h Dual power inputs: 201 BTU/h
Thermal consumption (typical) Data collection standard: fully configured with copper cables or network cables, at 30% load	Single power input: 192 BTU/h Dual power inputs: 225 BTU/h	Single power input: 246 BTU/h Dual power inputs: 287 BTU/h
Thermal consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, at 100% load	Single power input: 3200 BTU/h Dual power inputs: 3569 BTU/h	Single power input: 3224 BTU/h Dual power inputs: 5956 BTU/h
Heat dissipation		
Heat dissipation method	Air cooling	
Ventilation aisle	Front-to-rear or rear-to-front airflow, determined by the selected fan tray model	
Reliability and availability		
Power supply redundancy	1+1	
Fan tray redundancy	The switch must be fully configured with fan trays.	
Hot swapping	Power supplies and fan trays support hot swapping. Expansion cards support hot swapping, but do not hot swap an expansion card when the switch is starting up.	
MTBF (year)	32.15/55.18	28.62/55.18

Item	S5590-28P8XC-EI	S5590-48P6XC-EI
MTTR (hour)	1	1
Availability	99.999653%	99.999612%
Environment specifications		
Sound pressure level at 27°C (80.6°F)	48.6 dB	62.8 dB
Altitude	0 m to 5000 m (0 ft to 16404.20 ft)	
Operating temperature	-5°C to +45°C (23°F to 113°F) Note: The allowed maximum temperature decreases by 0.33 °C (0.59°F) as the altitude increases by 100 m (328.08 ft) from 0 m (0 ft).	
Storage temperature	-40°C to +70°C (-40°F to +158°F)	
Relative humidity	5% RH to 95% RH, noncondensing	
Compliance		
Product compliance	• Safety standards • EMC standards • Environmental and eco-friendly standards	

Table1-7 Technical specifications for PoE switch models (2)

Item	S5590-24UXM4YC-EI	S5590-48UXM4YC-EI
Physical specifications		
Dimensions (H × W × D)	44 × 440 × 400 mm (1.73 × 17.32 × 15.75 in)	
Dimensions (H × W × D, with package materials)	180 × 678 × 576 mm (7.09 × 26.69 × 22.68 in)	
Weight (fully configured with power supplies, fan trays, and expansion cards)	≤ 9.5 kg (20.94 lb)	
Technical specifications		
Memory (RAM)	2 GB	
Flash	8 GB	
Port types and quantity		
Console port	1 × serial console port	
USB port	1	

Item	S5590-24UXM4YC-EI	S5590-48UXM4YC-EI
Management Ethernet port	1	
SFP28 port	4	4
10/100/1000B ASE-T autosensing Ethernet port	16	32
10G/5G/2.5G/1000/100/10B ASE-T autosensing Ethernet port	8	16
Fan tray, power supply, and expansion card slots		
Expansion slot	1	
Power supply slot	2	
Fan tray slot	2	
Power supply specifications		
Power input	AC input	
Power specifications	See "Removable power supplies"	
PoE power capacity		
Max PoE power capacity per port	100 W	
Total PoE power capacity	See Table1-17	
System power consumption		
Power consumption (static) Data collection standard: no load	Single power input: 56 W Dual power inputs: 66 W	Single power input: 63 W Dual power inputs: 74 W
Power consumption (typical) Data collection standard: fully configured with copper cables or network cables, at	Single power input: 82 W Dual power inputs: 90 W	Single power input: 110 W Dual power inputs: 125 W

Item	S5590-24UXM4YC-EI	S5590-48UXM4YC-EI
30% load		
Power consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, at 100% load	See Table1-10	
System thermal consumption		
Thermal consumption (static) Data collection standard: no load	Single power input: 191 BTU/h Dual power inputs: 225 BTU/h	Single power input: 214 BTU/h Dual power inputs: 252 BTU/h
Thermal consumption (typical) Data collection standard: fully configured with copper cables or network cables, at 30% load	Single power input: 279 BTU/h Dual power inputs: 307 BTU/h	Single power input: 375 BTU/h Dual power inputs: 427 BTU/h
Thermal consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, at 100% load	See Table1-14	
Heat dissipation		
Heat dissipation method	Air cooling	
Ventilation aisle	Port-to-power supply airflow	

Item	S5590-24UXM4YC-EI	S5590-48UXM4YC-EI
Reliability and availability		
Power supply redundancy	1+1	
Fan tray redundancy	The switch must be fully configured with fan trays.	
Hot swapping	Power supplies and fan trays support hot swapping. Expansion cards support hot swapping, but do not hot swap an expansion card when the switch is starting up.	
MTBF (year)	72.5	68.97
MTTR (hour)	1	1
Availability	99.99984%	99.999832%
Environment specifications		
Sound pressure level at 27°C (80.6°F)	47.9 dB	47.9 dB
Altitude	0 m to 5000 m (0 ft to 16404.20 ft)	
Operating temperature	-5°C to +45°C (23°F to 113°F) Note: The allowed maximum temperature decreases by 0.33 °C (0.59°F) as the altitude increases by 100 m (328.08 ft) from 0 m (0 ft).	
Storage temperature	-40°C to +70°C (-40°F to +158°F)	
Operating humidity	5% RH to 95% RH, noncondensing	
Compliance		
Product compliance	- Safety standards - EMC standards - Environmental and eco-friendly standards	

Table1-8 Technical specifications for PoE switch models (3)

Item	S5590-24UXMC-EI	S5590-48UM4Y C-EI	S5590-48UN4Y 2CC-EI	S5590-32UN4X 4Y2CC-EI
Physical specifications				
Dimensions (H × W × D)	43.6 × 440 × 400 mm (1.72 × 17.32 × 15.75 in)	44 × 440 × 400 mm (1.73 × 17.32 × 15.75 in)	44 × 440 × 400 mm (1.73 × 17.32 × 15.75 in)	44 × 440 × 400 mm (1.73 × 17.32 × 15.75 in)
Dimensions (H × W × D, with package materials)	125 × 562 × 532 mm (4.92 × 22.13 × 20.94 in)	180 × 690 × 580 mm (7.09 × 27.17 × 22.83 in)	165 × 568 × 558 mm (6.50 × 22.36 × 21.97 in)	165 × 568 × 558 mm (6.50 × 22.36 × 21.97 in)
Weight (fully configured with power supplies, fan trays, and expansion)	≤ 7.5 kg (16.53 lb)	≤ 8.2 kg (18.08 lb)	≤ 7.8 kg (17.20 lb)	≤ 7.6 kg (16.75 lb)

Item	S5590-24UXMC -EI	S5590-48UM4Y C-EI	S5590-48UN4Y 2CC-EI	S5590-32UN4X 4Y2CC-EI
cards)				
Technical specifications				
Memory (RAM)	2 GB	2 GB	2 GB	2 GB
Flash	8 GB	8 GB	8 GB	8 GB
Port types and quantity				
Console port	1 × serial console port 1 × USB type-C console port Only the USB type-C console port is available when you connect both ports.			
USB port	1	1	1	1
Management Ethernet port	1	1	1	1
QSFP28 port	N/A	N/A	2	2
SFP28 port	N/A	4	4	4
SFP+ port	N/A	N/A	N/A	4
SFP port	N/A	N/A	N/A	N/A
10G/2.5G/1000/100/10BASE-T autosensing Ethernet port	N/A	48	N/A	N/A
2.5G/1000/100/10BASE-T autosensing Ethernet port	N/A	N/A	48	32
100/1000/2.5G/5G/10G autosensing Ethernet port	24	N/A	N/A	N/A
Fan tray, power supply, and expansion card slots				
Expansion slot	1	1	1	1
Power supply slot	2	2	2	2
Fan tray slot	2	3	2	2
Power supply specifications				
Power input	AC input: - Rated voltage range: 100 VAC to 240 VAC - Max voltage range: 90 VAC to 290 VAC DC input: - Rated voltage range: -48	AC input: - Rated voltage range: 100 VAC to 240 VAC - Max voltage range: 90 VAC to 290 VAC DC input: - Rated voltage range: -48	AC input: - Rated voltage range: 100 VAC to 240 VAC - Max voltage range: 90 VAC to 290 VAC DC input: - Rated voltage range: -48	AC input: - Rated voltage range: 100 VAC to 240 VAC - Max voltage range: 90 VAC to 290 VAC DC input: - Rated voltage range: -48

Item	S5590-24UXMC -EI	S5590-48UM4Y C-EI	S5590-48UN4Y 2CC-EI	S5590-32UN4X 4Y2CC-EI
	VDC to –60 VDC Max voltage range: –36 VDC to –72 VDC	VDC to –60 VDC Max voltage range: –36 VDC to –72 VDC	VDC to –60 VDC Max voltage range: –36 VDC to –72 VDC	VDC to –60 VDC Max voltage range: –36 VDC to –72 VDC
Power specifications	See " Removable power supplies "			
PoE power capacity				
Max PoE power capacity per port	100 W	100 W	100 W	100 W
Total PoE power capacity	See Table1-18			
System power consumption				
Power consumption (static) Data collection standard: no load	Single AC input: 76 W Dual AC inputs: 86 W Single DC input: 74 W Dual DC inputs: 82 W	Single AC input: 123 W Dual AC inputs: 137 W Single DC input: 110 W Dual DC inputs: 117 W	Single AC input: 66 W Dual AC inputs: 70 W Single DC input: 59 W Dual DC inputs: 63 W	Single AC input: 62 W Dual AC inputs: 73 W Single DC input: 56 W Dual DC inputs: 62 W
Power consumption (typical) Data collection standard: fully configured with copper cables or network cables, 30% traffic	Single AC input: 127 W Dual AC inputs: 144 W Single DC input: 121 W Dual DC inputs: 132 W	Single AC input: 246 W Dual AC inputs: 259 W Single DC input: 227 W Dual DC inputs: 239 W	Single AC input: 107 W Dual AC inputs: 116 W Single DC input: 99 W Dual DC inputs: 104 W	Single AC input: 91 W Dual AC inputs: 106 W Single DC input: 88 W Dual DC inputs: 93 W
Power consumption (PoE fully configured at full load) Data collection standard: fully configured with transceiver modules or network cables, 100% traffic, PoE at full load	See Table1-10	See Table1-12		
System thermal consumption				
Thermal consumption (static) Data collection standard: no load	Single AC input: 260 BTU/h Dual AC inputs: 294 BTU/h Single DC input: 253 BTU/h Dual DC inputs: 280 BTU/h	Single AC input: 420 BTU/h Dual AC inputs: 467 BTU/h Single DC input: 375 BTU/h Dual DC inputs: 399 BTU/h	Single AC input: 226 BTU/h Dual AC inputs: 239 BTU/h Single DC input: 202 BTU/h Dual DC inputs: 215 BTU/h	Single AC input: 212 BTU/h Dual AC inputs: 250 BTU/h Single DC input: 192 BTU/h Dual DC inputs: 212 BTU/h
Thermal consumption	Single AC input:	Single AC input:	Single AC input:	Single AC input:

Item	S5590-24UXMC -EI	S5590-48UM4Y C-EI	S5590-48UN4Y 2CC-EI	S5590-32UN4X 4Y2CC-EI
(typical) Data collection standard: fully configured with copper cables or network cables, 30% traffic	434 BTU/h Dual AC inputs: 492 BTU/h Single DC input: 413 BTU/h Dual DC inputs: 451 BTU/h	840 BTU/h Dual AC inputs: 883 BTU/h Single DC input: 774 BTU/h Dual DC inputs: 816 BTU/h	366 BTU/h Dual AC inputs: 396 BTU/h Single DC input: 338 BTU/h Dual DC inputs: 355 BTU/h	311 BTU/h Dual AC inputs: 362 BTU/h Single DC input: 301 BTU/h Dual DC inputs: 318 BTU/h
Thermal consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, 100% traffic, PoE at full load	See Table1-14	See Table1-15		
Heat dissipation				
Heat dissipation method	Air cooling	Air cooling	Air cooling	Air cooling
Ventilation aisle	Port-to-power supply airflow	Port-to-power supply airflow	Port-to-power supply airflow	Port-to-power supply airflow
Reliability and availability				
Power supply redundancy	1+1			
Fan tray redundancy	The switch must be fully configured with fan trays.			
Hot swapping	Power supplies and fan trays support hot swapping. Expansion cards support hot swapping, but do not hot swap an expansion card when the switch is starting up.	Power supplies and fan trays support hot swapping. Expansion cards support hot swapping, but do not hot swap an expansion card when the switch is starting up.	Power supplies and fan trays support hot swapping. Expansion cards support hot swapping, but do not hot swap an expansion card when the switch is starting up.	Power supplies and fan trays support hot swapping. Expansion cards support hot swapping, but do not hot swap an expansion card when the switch is starting up.
MTBF (year)	83.3	12	97	110
MTTR (hour)	1			
Availability	99.999863%	99.9991%	99.999882%	99.999896%
Environment specifications				
Sound pressure level at 27°C (80.6°F)	53.2 dB	55.3 dB	51.6 dB	51.6 dB
Altitude	0 m to 5000 m (0 ft to 16404.20 ft)			
Operating temperature	-5°C to +45°C (23°F to 113°F) Note: The allowed maximum temperature decreases by 0.33 °C (0.59°F) as the altitude increases by 100 m (328.08 ft) from 0 m (0 ft).			

Item	S5590-24UXMC -EI	S5590-48UM4Y C-EI	S5590-48UN4Y 2CC-EI	S5590-32UN4X 4Y2CC-EI
Storage temperature	−40°C to +70°C (−40°F to +158°F)			
Operating humidity	5% RH to 95% RH, noncondensing			
Compliance				
Product compliance	• Safety standards • EMC standards • Environmental and eco-friendly standards			

Table1-9 Technical specifications for PoE switch models (4)

Item	S5590-32UN16UM4YC-EI	S5590-16UN16UM4YC-EI
Physical specifications		
Dimensions (H × W × D)	44 × 440 × 400 mm (1.73 × 17.32 × 15.75 in)	44 × 440 × 400 mm (1.73 × 17.32 × 15.75 in)
Dimensions (H × W × D, with package materials)	150 × 668 × 566 mm (5.91 × 26.30 × 22.28 in)	150 × 668 × 566 mm (5.91 × 26.30 × 22.28 in)
Weight (fully configured with power supplies, fan trays, and expansion cards)	≤ 7.8 kg (17.20 lb)	≤ 7.6 kg (16.75 lb)
Technical specifications		
Memory (RAM)	2 GB	2 GB
Flash	8 GB	8 GB
Port types and quantity		
Console port	1 × serial console port 1 × USB type-C console port Only the USB type-C console port is available when you connect both ports.	
USB port	1	1
Management Ethernet port	1	1
SFP28 port	4	4
2.5G/1000/100/10BASE-T autosensing Ethernet port	32	16
10G/5G/2.5G/1000/100/10BASE-T ASE-T autosensing Ethernet port	16	16

Item	S5590-32UN16UM4YC-EI	S5590-16UN16UM4YC-EI
Fan tray, power supply, and expansion card slots		
Expansion slot	1	1
Power supply slot	2	2
Fan tray slot	2	2
Power supply specifications		
Power input	AC input: - Rated voltage range: 100 VAC to 240 VAC - Max voltage range: 90 VAC to 290 VAC DC input: - Rated voltage range: –48 VDC to –60 VDC - Max voltage range: –36 VDC to –72 VDC	AC input: - Rated voltage range: 100 VAC to 240 VAC - Max voltage range: 90 VAC to 290 VAC DC input: - Rated voltage range: –48 VDC to –60 VDC - Max voltage range: –36 VDC to –72 VDC
Power specifications	See " Removable power supplies "	
PoE power capacity		
Max PoE power capacity per port	100 W	100 W
Total PoE power capacity	See Table1-19	
System power consumption		
Power consumption (static) Data collection standard: no load	Single AC input: 65 W Dual AC inputs: 75 W Single DC input: 57 W Dual DC inputs: 63 W	Single AC input: 62 W Dual AC inputs: 63 W Single DC input: 49 W Dual DC inputs: 53 W
Power consumption (typical) Data collection standard: fully configured with copper cables or network cables, 30% traffic	Single AC input: 142 W Dual AC inputs: 153 W Single DC input: 135 W Dual DC inputs: 142 W	Single AC input: 115 W Dual AC inputs: 126 W Single DC input: 113 W Dual DC inputs: 114 W
Power consumption (PoE fully)	See Table1-13	

Item	S5590-32UN16UM4YC-EI	S5590-16UN16UM4YC-EI
configured at full load) Data collection standard: fully configured with transceiver modules or network cables, 100% traffic, PoE at full load		
System thermal consumption		
Thermal consumption (static) Data collection standard: no load	Single AC input: 222 BTU/h Dual AC inputs: 256 BTU/h Single DC input: 195 BTU/h Dual DC inputs: 215 BTU/h	Single AC input: 212 BTU/h Dual AC inputs: 215 BTU/h Single DC input: 168 BTU/h Dual DC inputs: 181 BTU/h
Thermal consumption (typical) Data collection standard: fully configured with copper cables or network cables, 30% traffic	Single AC input: 485 BTU/h Dual AC inputs: 523 BTU/h Single DC input: 461 BTU/h Dual DC inputs: 485 BTU/h	Single AC input: 393 BTU/h Dual AC inputs: 430 BTU/h Single DC input: 386 BTU/h Dual DC inputs: 389 BTU/h
Thermal consumption (full load) Data collection standard: fully configured with transceiver modules or network cables, 100% traffic, PoE at full load	See Table1-16	
Heat dissipation		
Heat dissipation method	Air cooling	Air cooling
Ventilation aisle	Port-to-power supply airflow	Port-to-power supply airflow

Item	S5590-32UN16UM4YC-EI	S5590-16UN16UM4YC-EI
Reliability and availability		
Power supply redundancy	1+1	1+1
Fan tray redundancy	The switch must be fully configured with fan trays.	
Hot swapping	Power supplies and fan trays support hot swapping. Expansion cards support hot swapping, but do not hot swap an expansion card when the switch is starting up.	
MTBF (year)	16	16
MTTR (hour)	1	
Availability	0.999993	0.999993
Environment specifications		
Sound pressure level at 27°C (80.6°F)	51.6 dB	51.6 dB
Altitude	0 m to 5000 m (0 ft to 16404.20 ft)	
Operating temperature	-5°C to +45°C (23°F to 113°F) Note: The allowed maximum temperature decreases by 0.33 °C (0.59°F) as the altitude increases by 100 m (328.08 ft) from 0 m (0 ft).	
Storage temperature	-40°C to +70°C (-40°F to +158°F)	
Operating humidity	5% RH to 95% RH, noncondensing	
Compliance		
Product compliance	- Safety standards - EMC standards - Environmental and eco-friendly standards	

Table1-10 Power consumption for the S5590-24UXM4YC-EI, S5590-48UXM4YC-EI, and S5590-24UXMC-EI switches (full load)

Power supply configuration	S5590-24UXM4YC-EI	S5590-48UXM4YC-EI	S5590-24UXMC-EI
1 × PSR600-54A-B	530 W	550 W	625 W
1 × PSR920-54A-B	870 W	910 W	977 W
1 × PSR1600-54A-B (90 VAC to 176 VAC)	925 W	954 W	973 W
1 × PSR1600-54A-B (176 VAC to 290 VAC)	1630 W	1645 W	1654 W

Power supply configuration	S5590-24UXM4YC-EI	S5590-48UXM4YC-EI	S5590-24UXMC-EI
VAC)			
1 × PSR1300-54D-B	N/A	N/A	1409 W
2 × PSR600-54A-B	1160 W	1180 W	1307 W
2 × PSR920-54A-B	1765 W	1800 W	1984 W
2 × PSR1600-54A-B (90 VAC to 176 VAC)	2020 W	1982 W	1954 W
2 × PSR1600-54A-B (176 VAC to 290 VAC)	2660 W	3152 W	2705 W
2 × PSR1300-54D-B	N/A	N/A	2700 W

Table1-11 Power consumption for the S5590-28P8XC-EI and S5590-48P6XC-EI switches (full load)

Power supply configuration	S5590-28P8XC-EI	S5590-48P6XC-EI
1 × PSR600-54A-B	608 W	609 W
1 × PSR920-54A-B	983 W	989 W
1 × PSR1600-54A-B (90 VAC to 176 VAC)	970 W	991 W
1 × PSR1600-54A-B (176 VAC to 290 VAC/180 VDC to 320 VDC)	1117 W	1624 W
2 × PSR600-54A-B	1182 W	1249 W
2 × PSR920-54A-B	1180 W	1940 W
2 × PSR1600-54A-B (90 VAC to 176 VAC)	1175 W	1873 W
2 × PSR1600-54A-B (176 VAC to 290 VAC/180 VDC to 320 VDC)	1132 W	1844 W

Table1-12 Power consumption for the S5590-48UM4YC-EI, S5590-48UN4Y2CC-EI, and S5590-32UN4X4Y2CC-EI switches (full load)

Power supply configuration	S5590-48UM4YC-EI	S5590-48UN4Y2CC-EI	S5590-32UN4X4Y2CC-EI
1 × PSR600-54A-B	558 W	666 W	624 W
1 × PSR920-54A-B	933 W	975 W	1286 W
1 × PSR1600-54A-B (90 VAC to 176 VAC)	980 W	981 W	931 W

Power supply configuration	S5590-48UM4YC-EI	S5590-48UN4Y2CC-EI	S5590-32UN4X4Y2CC-EI
1 × PSR1600-54A-B (176 VAC to 290 VAC/180 VDC to 320 VDC)	1667 W	1682 W	1654 W
1 × PSR1300-54D-B	1358 W	1380 W	1380 W
2 × PSR600-54A-B	1183 W	1277 W	1245 W
2 × PSR920-54A-B	1818 W	1992 W	1941 W
2 × PSR1600-54A-B (90 VAC to 176 VAC)	1985 W	1977 W	1996 W
2 × PSR1600-54A-B (176 VAC to 290 VAC/180 VDC to 320 VDC)	3172 W	3202 W	3159 W
2 × PSR1300-54D-B	2644 W	2682 W	2680 W

Table1-13 Power consumption for the S5590-32UN16UM4YC-EI and S5590-16UN16UM4YC-EI switches (full load)

Power supply configuration	S5590-32UN16UM4YC-EI	S5590-16UN16UM4YC-EI
1 × PSR600-54A-B	678 W	631 W
1 × PSR920-54A-B	1012 W	958 W
1 × PSR1600-54A-B (90 VAC to 176 VAC)	963 W	967 W
1 × PSR1600-54A-B (176 VAC to 290 VAC/180 VDC to 320 VDC)	1693 W	1670 W
1 × PSR1300-54D-B	1415 W	1406 W
2 × PSR600-54A-B	1276 W	1267 W
2 × PSR920-54A-B	2046 W	1995 W
2 × PSR1600-54A-B (90 VAC to 176 VAC)	1904 W	1996 W
2 × PSR1600-54A-B (176 VAC to 290 VAC/180 VDC to 320 VDC)	3200 W	3186 W
2 × PSR1300-54D-B	2705 W	2668 W

Table1-14 Thermal consumption for the S5590-24UXM4YC-EI, S5590-48UXM4YC-EI, and S5590-24UXMC-EI switches (full load)

Power supply configuration	S5590-24UXM4YC-EI	S5590-48UXM4YC-EI	S5590-24UXMC-EI
1 × PSR600-54A-B	1808 BTU/h	1877 BTU/h	2133 BTU/h
1 × PSR920-54A-B	2969 BTU/h	3105 BTU/h	3334 BTU/h
1 ×	3156 BTU/h	3255 BTU/h	3321 BTU/h

Power supply configuration	S5590-24UXM4YC-EI	S5590-48UXM4YC-EI	S5590-24UXMC-EI
PSR1600-54A-B (90 VAC to 176 VAC)			
1 × PSR1600-54A-B (176 VAC to 290 VAC)	5562 BTU/h	5613 BTU/h	5644 BTU/h
1 × PSR1300-54D-B	N/A	N/A	4808 BTU/h
2 × PSR600-54A-B	3958 BTU/h	6074 BTU/h	4460 BTU/h
2 × PSR920-54A-B	6022 BTU/h	6142 BTU/h	6769 BTU/h
2 × PSR1600-54A-B (90 VAC to 176 VAC)	6893 BTU/h	6762 BTU/h	6668 BTU/h
2 × PSR1600-54A-B (176 VAC to 290 VAC)	9076 BTU/h	10755 BTU/h	9230 BTU/h
2 × PSR1300-54D-B	N/A	N/A	9213 BTU/h

Table1-15 Thermal consumption for the S5590-48UM4YC-EI, S5590-48UN4Y2CC-EI, and S5590-32UN4X4Y2CC-EI switches (full load)

Power supply configuration	S5590-48UM4YC-EI	S5590-48UN4Y2CC-EI	S5590-32UN4X4Y2CC-EI
1 × PSR600-54A-B	2007 BTU/h	2273 BTU/h	2130 BTU/h
1 × PSR920-54A-B	3184 BTU/h	3327 BTU/h	4389 BTU/h
1 × PSR1600-54A-B (90 VAC to 176 VAC)	3344 BTU/h	3348 BTU/h	3177 BTU/h
1 × PSR1600-54A-B (176 VAC to 290 VAC/180 VDC to 320 VDC)	5689 BTU/h	5740 BTU/h	5644 BTU/h
1 × PSR1300-54D-B	4634 BTU/h	4709 BTU/h	4709 BTU/h
2 × PSR600-54A-B	4037 BTU/h	4358 BTU/h	4249 BTU/h
2 × PSR920-54A-B	6204 BTU/h	6797 BTU/h	6623 BTU/h
2 × PSR1600-54A-B (90 VAC to 176 VAC)	6774 BTU/h	6746 BTU/h	6811 BTU/h
2 × PSR1600-54A-B (176 VAC to 290 VAC/180 VDC to 320 VDC)	10824 BTU/h	10926 BTU/h	10779 BTU/h
2 × PSR1300-54D-B	9022 BTU/h	8421 BTU/h	8415 BTU/h

Table1-16 Thermal consumption for the S5590-32UN16UM4YC-EI and S5590-16UN16UM4YC-EI switches (full load)

Power supply configuration	S5590-32UN16UM4YC-EI	S5590-16UN16UM4YC-EI
1 × PSR600-54A-B	2324 BTU/h	2154 BTU/h
1 × PSR920-54A-B	3454 BTU/h	3269 BTU/h
1 × PSR1600-54A-B (90 VAC to 176 VAC)	3286 BTU/h	3300 BTU/h
1 × PSR1600-54A-B (176 VAC to 290 VAC/180 VDC to 320 VDC)	5777 BTU/h	5699 BTU/h
1 × PSR1300-54D-B	4798 BTU/h	44826 BTU/h
2 × PSR600-54A-B	4354 BTU/h	4324 BTU/h
2 × PSR920-54A-B	6982 BTU/h	6808 BTU/h
2 × PSR1600-54A-B (90 VAC to 176 VAC)	6497 BTU/h	6811 BTU/h
2 × PSR1600-54A-B (176 VAC to 290 VAC/180 VDC to 320 VDC)	10919 BTU/h	10872 BTU/h
2 × PSR1300-54D-B	8494 BTU/h	8337 BTU/h

Table1-17 PoE power capacity of the S5590-EI switch series (1)

Power supply configuration	S5590-28P8XC-EI		S5590-48P6XC-EI		S5590-24UXM4YC-EI		S5590-48UXM4YC-EI	
	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port
1 × PSR600-54A-B	450 W	35 W	450 W	35 W	400 W	100 W	400 W	100 W
1 × PSR920-54A-B	770 W	35 W	770 W	35 W	720 W	100 W	720 W	100 W
1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	770 W	35 W	770 W	35 W	720 W	100 W	720 W	100 W
1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1000 W	35 W	1450 W	35 W	1400 W	100 W	1400 W	100 W
2 × PSR600-54A-B	1000 W	35 W	1020 W	35 W	970 W	100 W	970 W	100 W

Power supply configuration	S5590-28P8XC-EI		S5590-48P6XC-EI		S5590-24UXM4YC-EI		S5590-48UXM4YC-EI	
	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port
1 × PSR600-54A-B and 1 × PSR920-54A-B	1000 W	35 W	1020 W	35 W	970 W	100 W	970 W	100 W
1 × PSR920-54A-B and 1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	1000 W	35 W	1260 W	35 W	1210 W	100 W	1210 W	100 W
1 × PSR920-54A-B and 1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1000 W	35 W	1600 W	35 W	1550 W	100 W	1550 W	100 W
1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC) and 1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1000 W	35 W	1600 W	35 W	1550 W	100 W	1550 W	100 W
2 × PSR920-54A-B	1000 W	35 W	1600 W	35 W	1550 W	100 W	1550 W	100 W
2 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	1000 W	35 W	1600 W	35 W	1600 W	100 W	1600 W	100 W
2 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1000 W	35 W	1680 W	35 W	2400 W	100 W	2800 W	100 W

Table1-18 PoE power capacity of the S5590-EI switch series (2)

Power supply configuration	S5590-24UXMC-EI		S5590-48UM4YC-EI		S5590-48UN4Y2CC-EI		S5590-32UN4X4Y2CC-EI	
	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port
1 × PSR600-54A-B	450 W	100 W	320 W	100 W	460 W	100 W	470 W	100 W
1 × PSR920-54A-B	770 W	100 W	640 W	100 W	780 W	100 W	790 W	100 W
1 × PSR1300-54D-B	1150 W	100 W	1020 W	100 W	1160 W	100 W	1170 W	100 W
1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	770 W	100 W	640 W	100 W	780 W	100 W	790 W	100 W
1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1450 W	100 W	1320 W	100 W	1460 W	100 W	1470 W	100 W
2 × PSR600-54A-B	1020 W	100 W	890 W	100 W	1030 W	100 W	1040 W	100 W
1 × PSR600-54A-B and 1 × PSR920-54A-B	1020 W	100 W	890 W	100 W	1030 W	100 W	1040 W	100 W
1 × PSR600-54A-B and 1 × PSR1300-54D-B	1020 W	100 W	890 W	100 W	1030 W	100 W	1040 W	100 W
1 × PSR600-54A-B and 1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	N/A	N/A	890 W	100 W	1030 W	100 W	1040 W	100 W
1 × PSR600-54A-B and 1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	N/A	N/A	890 W	100 W	1030 W	100 W	1040 W	100 W

Power supply configuration	S5590-24UXMC-EI		S5590-48UM4YC-EI		S5590-48UN4Y2CC-EI		S5590-32UN4X4Y2CC-EI	
	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port
VDC)								
1 × PSR920-54A-B and 1 × PSR1300-54D-B	1600 W	100 W	1470 W	100 W	1610 W	100 W	1620 W	100 W
1 × PSR920-54A-B and 1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	1260 W	100 W	1130 W	100 W	1270 W	100 W	1280 W	100 W
1 × PSR920-54A-B and 1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1600 W	100 W	1470 W	100 W	1610 W	100 W	1620 W	100 W
1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC) and 1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1600 W	100 W	1470 W	100 W	1610 W	100 W	1620 W	100 W
2 × PSR920-54A-B	1600 W	100 W	1470 W	100 W	1610 W	100 W	1620 W	100 W
2 × PSR1300-54D-B	2320 W	100 W	2190 W	100 W	2330 W	100 W	2340 W	100 W
1 × PSR1300-54D-B and 1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	1480 W	100 W	1350 W	100 W	1490 W	100 W	1500 W	100 W
1 × PSR1300-54D-B and 1 ×	2320 W	100 W	2190 W	100 W	2330 W	100 W	2340 W	100 W

Power supply configuration	S5590-24UXMC-EI		S5590-48UM4YC-EI		S5590-48UN4Y2CC-EI		S5590-32UN4X4Y2CC-EI	
	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port
PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)								
2 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	1600 W	100 W	1470 W	100 W	1610 W	100 W	1620 W	100 W
2 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	2400 W	100 W	2720 W	100 W	2860 W	100 W	2870 W	100 W

Table1-19 PoE power capacity of the S5590-EI switch series (3)

Power supply configuration	S5590-32UN16UM4YC-EI		S5590-16UN16UM4YC-EI	
	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port
1 × PSR600-54A-B	450 W	100 W	450 W	100 W
1 × PSR920-54A-B	770 W	100 W	770 W	100 W
1 × PSR1300-54D-B	1150 W	100 W	1150 W	100 W
1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	770 W	100 W	770 W	100 W
1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1450 W	100 W	1450 W	100 W
2 × PSR600-54A-B	1020 W	100 W	1020 W	100 W

Power supply configuration	S5590-32UN16UM4YC-EI		S5590-16UN16UM4YC-EI	
	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port
1 × PSR600-54A-B and 1 × PSR920-54A-B	1020 W	100 W	1020 W	100 W
1 × PSR600-54A-B and 1 × PSR1300-54D-B	1020 W	100 W	1020 W	100 W
1 × PSR600-54A-B and 1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	1020 W	100 W	1020 W	100 W
1 × PSR600-54A-B and 1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1020 W	100 W	1020 W	100 W
1 × PSR920-54A-B and 1 × PSR1300-54D-B	1600 W	100 W	1600 W	100 W
1 × PSR920-54A-B and 1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	1260 W	100 W	1260 W	100 W
1 × PSR920-54A-B and 1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	1600 W	100 W	1600 W	100 W
1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC) and 1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC)	1600 W	100 W	1600 W	100 W

Power supply configuration	S5590-32UN16UM4YC-EI		S5590-16UN16UM4YC-EI	
	Total PoE power capacity	Max PoE power capacity per port	Total PoE power capacity	Max PoE power capacity per port
VAC or 180 VDC to 320 VDC)				
2 × PSR920-54A-B	1600 W	100 W	1600 W	100 W
2 × PSR1300-54D-B	2320 W	100 W	2320 W	100 W
1 × PSR1300-54D-B and 1 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	1480 W	100 W	1480 W	100 W
1 × PSR1300-54D-B and 1 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	2320 W	100 W	2320 W	100 W
2 × PSR1600-54A-B (input voltage: 90 VAC to 176 VAC)	1600 W	100 W	1600 W	100 W
2 × PSR1600-54A-B (input voltage: 176 VAC to 290 VAC or 180 VDC to 320 VDC)	2850 W	100 W	2850 W	100 W

NOTE:

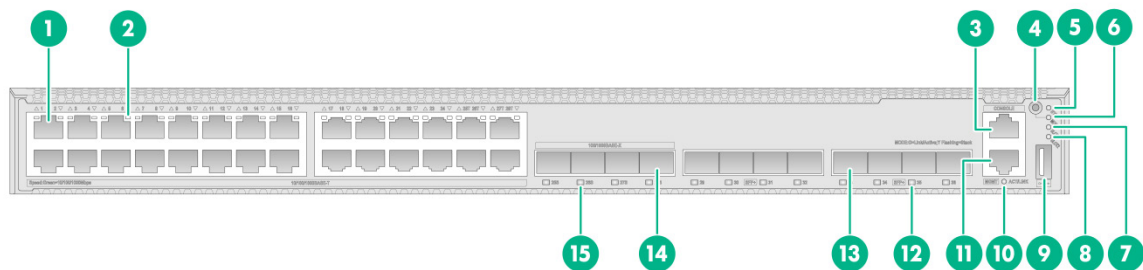
For the S5590-28P8XC-EI and S5590-48P6XC-EI switches in early released versions, the maximum PoE power capacity per port is 30 W. The PoE power capacity varies by switch version.

2 Chassis views

S5590-HI switch series

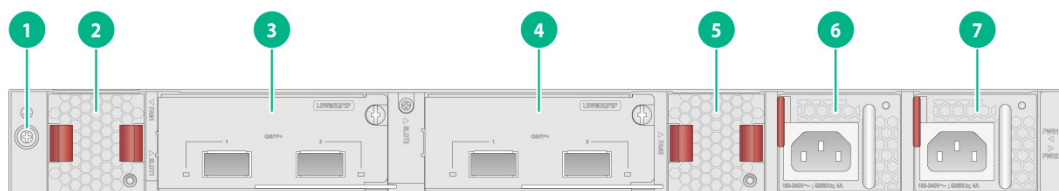
S5590-28T8XC-HI

Figure2-1 Front panel



(1) 10/100/1000BASE-T autosensing Ethernet port	(2) 10/100/1000BASE-T autosensing Ethernet port LED
(3) Console port (CONSOLE)	(4) Mode button
(5) System status LED (SYS)	(6) Mode LED (MODE)
(7) Expansion card status LED 1 (SLOT1)	(8) Expansion card status LED 2 (SLOT2)
(9) USB port	(10) Management Ethernet port LED (ACT/LINK)
(11) Management Ethernet port (MGMT)	(12) SFP+ port LED
(13) SFP+ port	(14) SFP port
(15) SFP port LED	

Figure2-2 Rear panel



(1) Grounding screw	(2) Fan tray 1
(3) Expansion card 1	(4) Expansion card 2
(5) Fan tray 2	(6) Power supply 1
(7) Power supply 2	

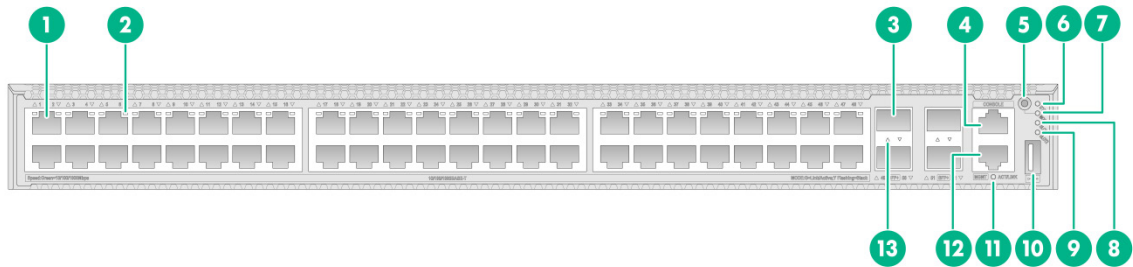
The S5590-28T8XC-HI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-2](#), two PSR250-12A1 AC power supplies are installed in the power supply slots.

The S5590-28T8XC-HI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-2](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-28T8XC-HI switch came with two expansion slots each installed with a filler panel. You can select expansion cards for the switch as required. In [Figure2-2](#), two LSWM2QP2P interface cards are installed in the expansion slots.

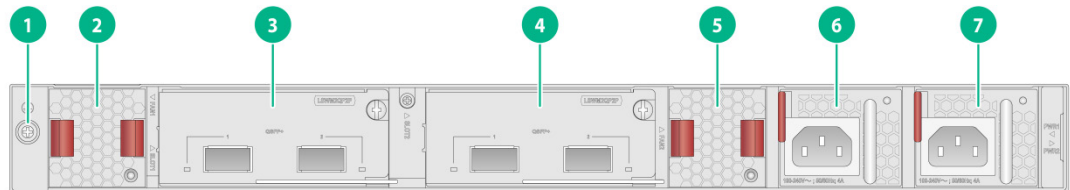
S5590-48T4XC-HI

Figure2-3 Front panel



(1) 10/100/1000BASE-T autosensing Ethernet port	(2) 10/100/1000BASE-T autosensing Ethernet port LED
(3) SFP+ port	(4) Console port (CONSOLE)
(5) Mode button	(6) System status LED (SYS)
(7) Mode LED (MODE)	(8) Expansion card status LED 1 (SLOT1)
(9) Expansion card status LED 2 (SLOT2)	(10) USB port
(11) Management Ethernet port LED (ACT/LINK)	(12) Management Ethernet port (MGMT)
(13) SFP+ port LED	

Figure2-4 Rear panel



(1) Grounding screw	(2) Fan tray 1
(3) Expansion card 1	(4) Expansion card 2
(5) Fan tray 2	(6) Power supply 1
(7) Power supply 2	

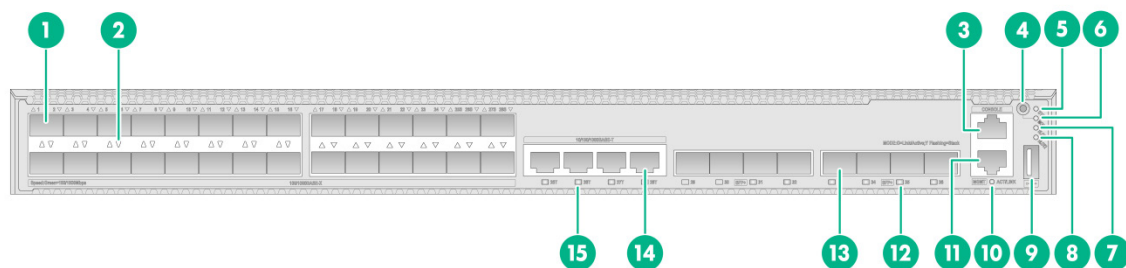
The S5590-48T4XC-HI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-4](#), two PSR250-12A1 AC power supplies are installed in the power supply slots.

The S5590-48T4XC-HI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-4](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-48T4XC-HI switch came with two expansion slots each installed with a filler panel. You can select expansion cards for the switch as required. In [Figure2-4](#), two LSWM2QP2P interface cards are installed in the expansion slots.

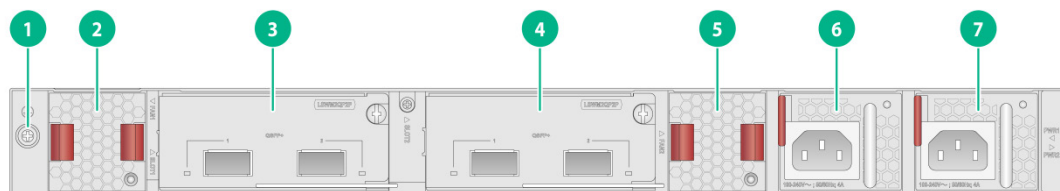
S5590-28S8XC-HI

Figure2-5 Front panel



(1) SFP port	(2) SFP port LED
(3) Console port (CONSOLE)	(4) Mode button
(5) System status LED (SYS)	(6) Mode LED (MODE)
(7) Expansion card status LED 1 (SLOT1)	(8) Expansion card status LED 2 (SLOT2)
(9) USB port	(10) Management Ethernet port LED (ACT/LINK)
(11) Management Ethernet port (MGMT)	(12) SFP+ port LED
(13) SFP+ port	(14) 10/100/1000BASE-T autosensing Ethernet port
(15) 10/100/1000BASE-T autosensing Ethernet port LED	

Figure2-6 Rear panel



(1) Grounding screw	(2) Fan tray 1
(3) Expansion card 1	(4) Expansion card 2
(5) Fan tray 2	(6) Power supply 1
(7) Power supply 2	

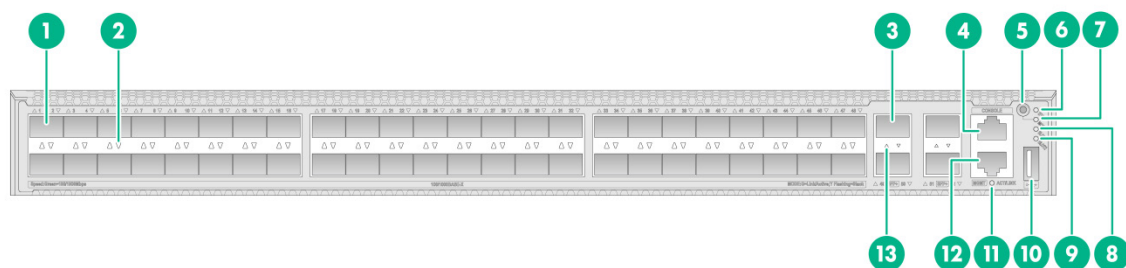
The S5590-28S8XC-HI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-6](#), two PSR250-12A1 AC power supplies are installed in the power supply slots.

The S5590-28S8XC-HI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-6](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-28S8XC-HI switch came with two expansion slots each installed with a filler panel. You can select expansion cards for the switch as required. In [Figure2-6](#), two LSWM2QP2P interface cards are installed in the expansion slots.

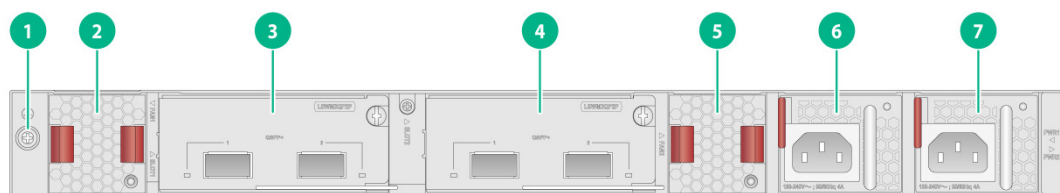
S5590-48S4XC-HI

Figure2-7 Front panel



(1) SFP port	(2) SFP port LED
(3) SFP+ port	(4) Console port (CONSOLE)
(5) Mode button	(6) System status LED (SYS)
(7) Mode LED (MODE)	(8) Expansion card status LED 1 (SLOT1)
(9) Expansion card status LED 2 (SLOT2)	(10) USB port
(11) Management Ethernet port LED (ACT/LINK)	(12) Management Ethernet port (MGMT)
(13) SFP+ port LED	

Figure2-8 Rear panel



(1) Grounding screw	(2) Fan tray 1
(3) Expansion card 1	(4) Expansion card 2
(5) Fan tray 2	(6) Power supply 1
(7) Power supply 2	

The S5590-48S4XC-HI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-8](#), two PSR250-12A1 AC power supplies are installed in the power supply slots.

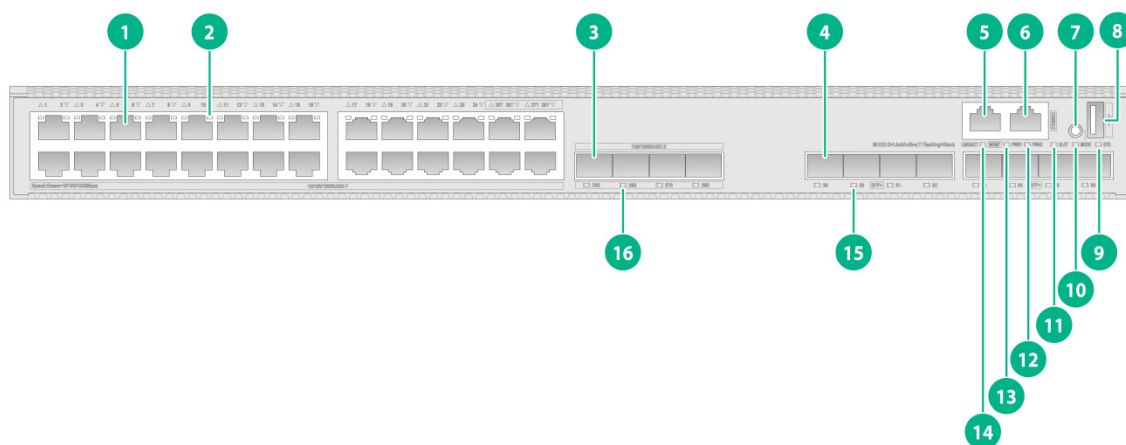
The S5590-48S4XC-HI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-8](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-48S4XC-HI switch came with two expansion slots each installed with a filler panel. You can select expansion cards for the switch as required. In [Figure2-8](#), two LSWM2QP2P interface cards are installed in the expansion slots.

S5590-EI switch series

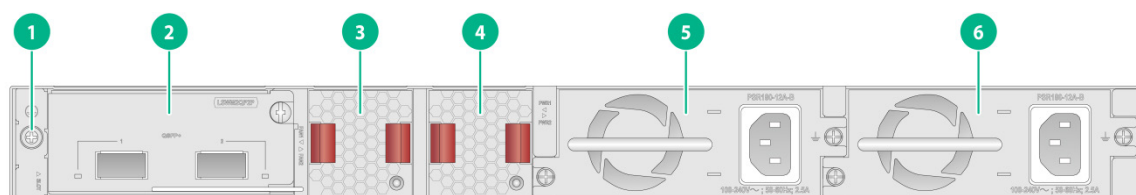
S5590-28T8XC-EI

Figure2-9 Front panel



(1) 10/100/1000BASE-T autosensing Ethernet port	(2) 10/100/1000BASE-T autosensing Ethernet port LED
(3) SFP port	(4) SFP+ port
(5) Management Ethernet port (MGMT)	(6) Console port (CONSOLE)
(7) Mode button	(8) USB port
(9) System status LED (SYS)	(10) Mode LED (MODE)
(11) Expansion card status LED (SLOT)	(12) Power supply 2 status LED (PWR2)
(13) Power supply 1 status LED (PWR1)	(14) Management Ethernet port LED (ACT/LINK)
(15) SFP+ port LED	(16) SFP port LED

Figure2-10 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

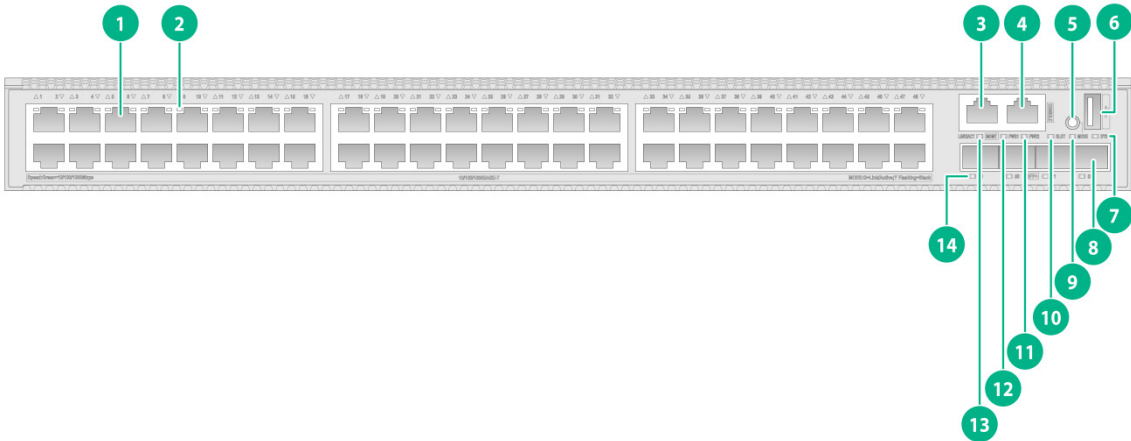
The S5590-28T8XC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-10](#), two PSR180-12A-B AC power supplies are installed in the power supply slots.

The S5590-28T8XC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-10](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-28T8XC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-10](#), an LSWM2QP2P interface card is installed in the expansion slot.

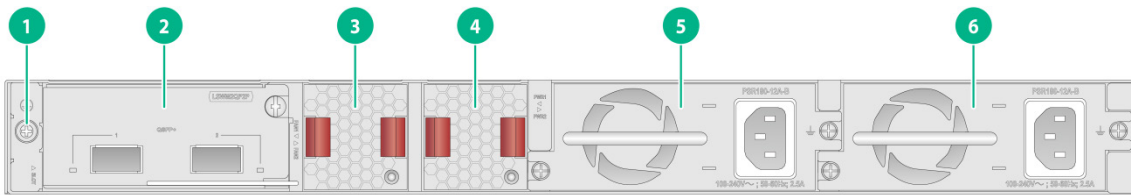
S5590-48T4XC-EI

Figure2-11 Front panel



(1) 10/100/1000BASE-T autosensing Ethernet port	(2) 10/100/1000BASE-T autosensing Ethernet port LED
(3) Management Ethernet port (MGMT)	(4) Console port (CONSOLE)
(5) Mode button	(6) USB port
(7) System status LED (SYS)	(8) SFP+ port
(9) Mode LED (MODE)	(10) Expansion card status LED (SLOT)
(11) Power supply 2 status LED (PWR2)	(12) Power supply 1 status LED (PWR1)
(13) Management Ethernet port LED (ACT/LINK)	(14) SFP+ port LED

Figure2-12 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

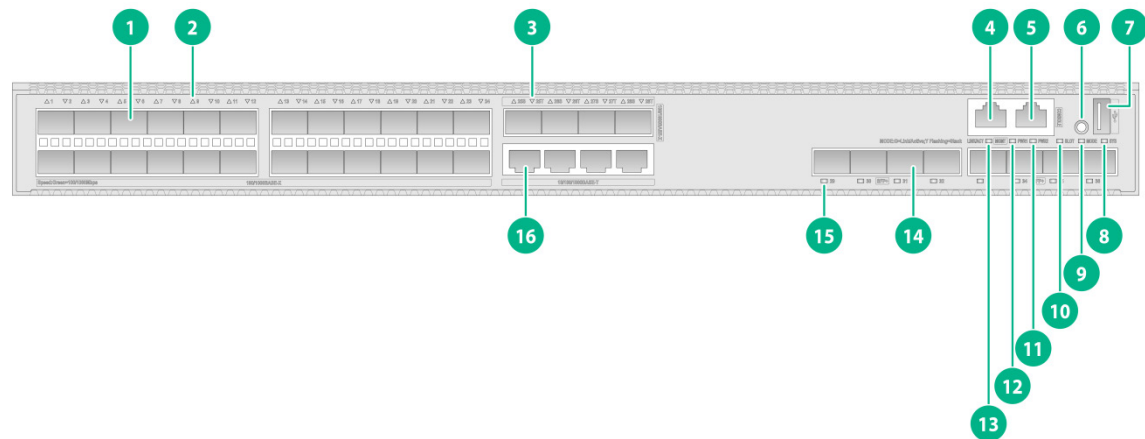
The S5590-48T4XC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-12](#), two PSR180-12A-B AC power supplies are installed in the power supply slots.

The S5590-48T4XC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-12](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-48T4XC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-12](#), an LSWM2QP2P interface card is installed in the expansion slot.

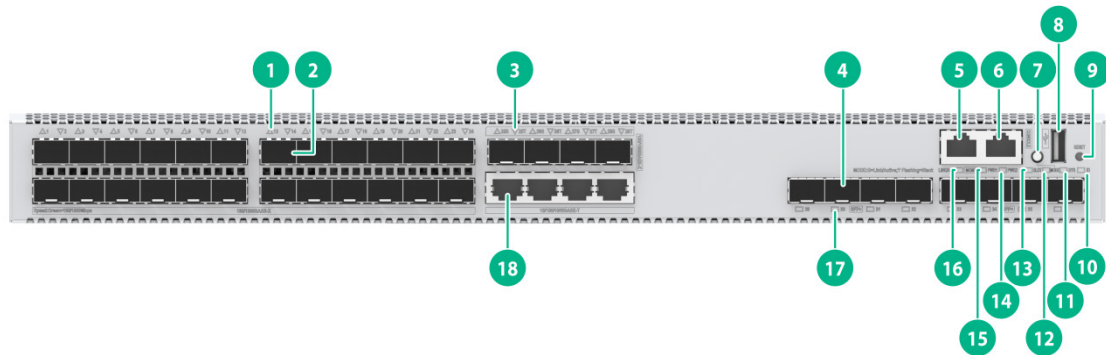
S5590-28S8XC-EI

Figure2-13 Front panel (product code: LS-5590-28S8XC-EI and LS-5590-28S8XC-EI-GL)



(1) SFP port	(2) SFP port LED
(3) 10/100/1000BASE-T autosensing Ethernet port LED	(4) Management Ethernet port (MGMT)
(5) Console port (CONSOLE)	(6) Mode button
(7) USB port	(8) System status LED (SYS)
(9) Mode LED (MODE)	(10) Expansion card status LED (SLOT)
(11) Power supply 2 status LED (PWR2)	(12) Power supply 1 status LED (PWR1)
(13) Management Ethernet port LED (ACT/LINK)	(14) SFP+ port
(15) SFP+ port LED	(16) 10/100/1000BASE-T autosensing Ethernet port

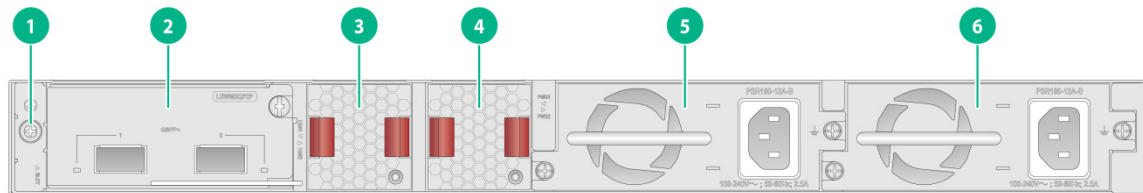
Figure2-14 Front panel (product code: LS-5590-28S8XC-EI-G3)



(1) SFP port LED	(2) SFP port
(3) 10/100/1000BASE-T autosensing Ethernet port LED	(4) SFP+ port
(5) Management Ethernet port (MGMT)	(6) Console port (CONSOLE)
(7) Mode button	(8) USB port
(9) Reset button	(10) ID LED (ID)

(11) System status LED (SYS)	(12) Mode LED (MODE)
(13) Expansion card status LED (SLOT)	(14) Power supply 2 status LED (PWR2)
(15) Power supply 1 status LED (PWR1)	(16) Management Ethernet port LED (ACT/LINK)
(17) SFP+ port LED	(18) 10/100/1000BASE-T autosensing Ethernet port

Figure2-15 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

The S5590-28S8XC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-15](#), two PSR180-12A-B AC power supplies are installed in the power supply slots.

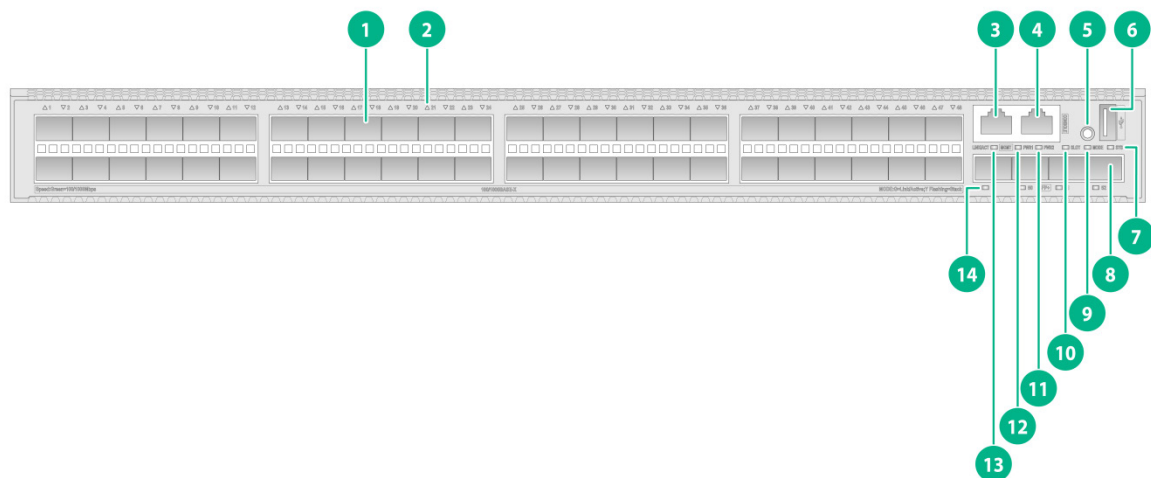
The S5590-28S8XC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-15](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-28S8XC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-15](#), an LSWM2QP2P interface card is installed in the expansion slot.

The S5590-28S8XC-EI switch with PID LS-5590-28S8XC-EI-GL supports shipping with fan trays and power supplies installed. For the switch to be shipped with fan trays or power supplies installed, contact the marketing staff.

S5590-48S4XC-EI

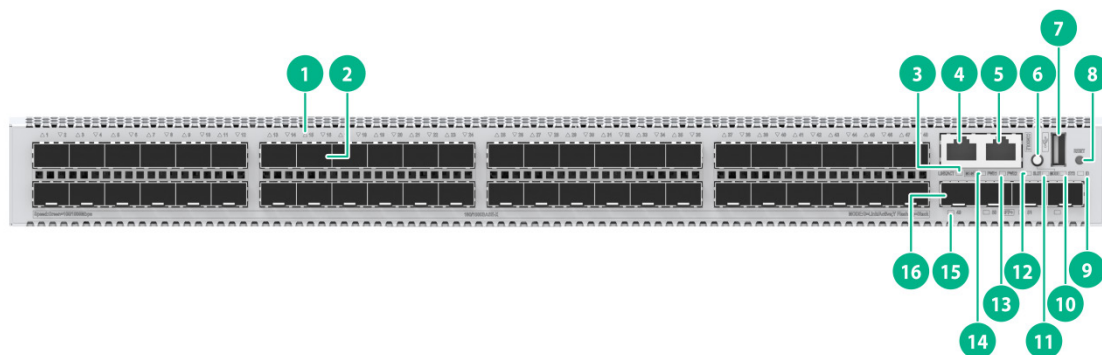
Figure2-16 Front panel (product code: LS-5590-48S4XC-EI and LS-5590-48S4XC-EI-GL)



(1) SFP port	(2) SFP port LED
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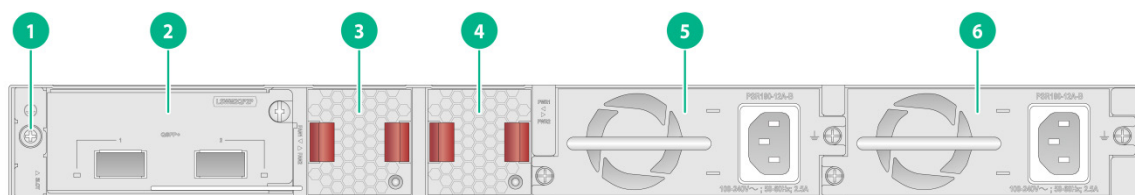
(1) SFP port	(2) SFP port LED
(3) Management Ethernet port (MGMT)	(4) Console port (CONSOLE)
(5) Mode button	(6) USB port
(7) System status LED (SYS)	(8) SFP+ port
(9) Mode LED (MODE)	(10) Expansion card status LED (SLOT)
(11) Power supply 2 status LED (PWR2)	(12) Power supply 1 status LED (PWR1)
(13) Management Ethernet port LED (ACT/LINK)	(14) SFP+ port LED

Figure2-17 Front panel (product code: LS-5590-48S4XC-EI-G3)



(1) SFP port LED	(2) SFP port
(3) Management Ethernet port LED (ACT/LINK)	(4) Management Ethernet port (MGMT)
(5) Console port (CONSOLE)	(6) Mode button
(7) USB port	(8) Reset button
(9) ID LED (ID)	(10) System status LED (SYS)
(11) Mode LED (MODE)	(12) Expansion card status LED (SLOT)
(13) Power supply 2 status LED (PWR2)	(14) Power supply 1 status LED (PWR1)
(15) SFP+ port LED	(16) SFP+ port

Figure2-18 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

The S5590-48S4XC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-18](#), two PSR180-12A-B AC power supplies are installed in the power supply slots.

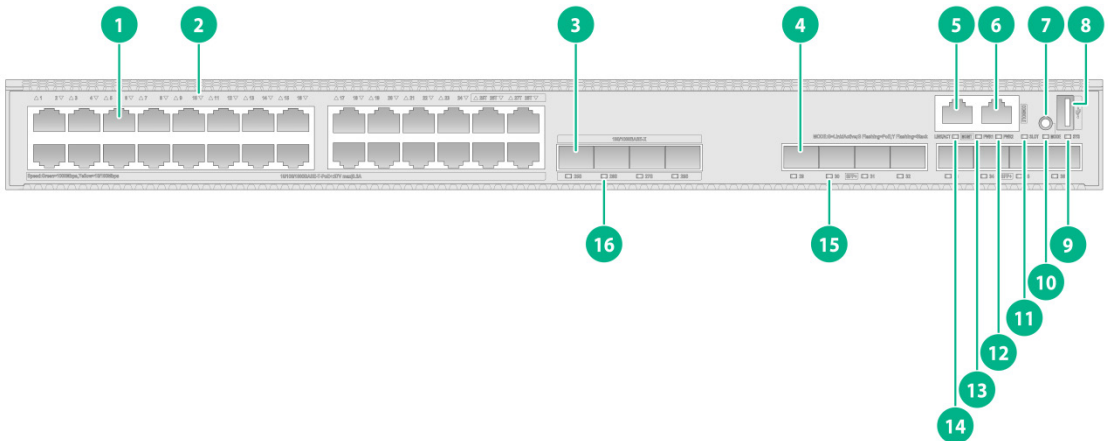
The S5590-48S4XC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-18](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-48S4XC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-18](#), an LSWM2QP2P interface card is installed in the expansion slot.

The S5590-48S4XC-EI switch with PID LS-5590-48S4XC-EI-GL supports shipping with fan trays and power supplies installed. For the switch to be shipped with fan trays or power supplies installed, contact the marketing staff.

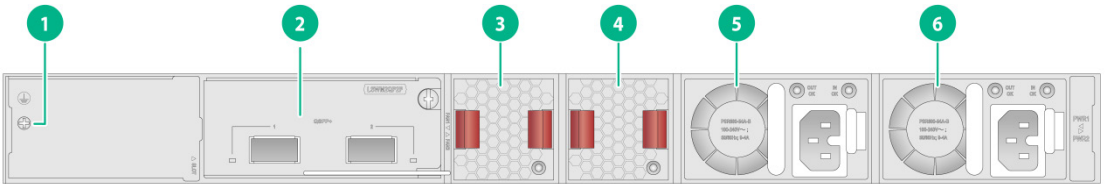
S5590-28P8XC-EI

Figure2-19 Front panel



(1) 10/100/1000BASE-T autosensing Ethernet port	(2) 10/100/1000BASE-T autosensing Ethernet port LED
(3) SFP port	(4) SFP+ port
(5) Management Ethernet port (MGMT)	(6) Console port (CONSOLE)
(7) Mode button	(8) USB port
(9) System status LED (SYS)	(10) Mode LED (MODE)
(11) Expansion card status LED (SLOT)	(12) Power supply 2 status LED (PWR2)
(13) Power supply 1 status LED (PWR1)	(14) Management Ethernet port LED (ACT/LINK)
(15) SFP+ port LED	(16) SFP port LED

Figure2-20 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

The S5590-28P8XC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-20](#), two PSR600-54A-B AC power supplies are installed in the power supply slots.

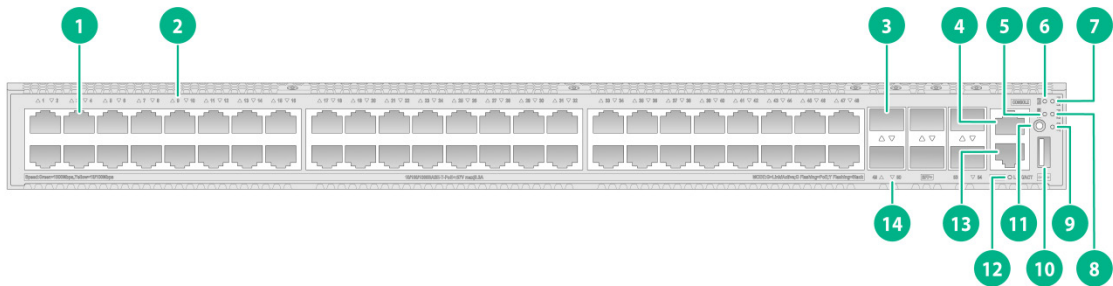
The S5590-28P8XC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-20](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-28P8XC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-20](#), an LSWM2QP2P interface card is installed in the expansion slot.

The S5590-28P8XC-EI switch with PID LS-5590-28P8XC-EI-GL supports shipping with fan trays and power supplies installed. For the switch to be shipped with fan trays or power supplies installed, contact the marketing staff.

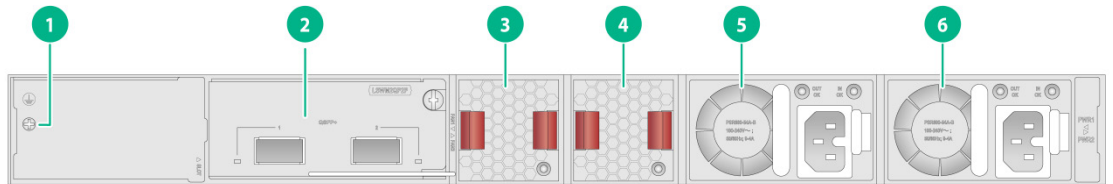
S5590-48P6XC-EI

Figure2-21 Front panel



(1) 10/100/1000BASE-T autosensing Ethernet port	(2) 10/100/1000BASE-T autosensing Ethernet port LED
(3) SFP+ port	(4) Console port (CONSOLE)
(5) Mode LED (MODE)	(6) System status LED (SYS)
(7) Power supply 1 status LED (PWR1)	(8) Power supply 2 status LED (PWR2)
(9) Expansion card status LED (SLOT)	(10) USB port
(11) Mode button	(12) Management Ethernet port LED (ACT/LINK)
(13) Management Ethernet port (MGMT)	(14) SFP+ port LED

Figure2-22 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

The S5590-48P6XC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-22](#), two PSR600-54A-B AC power supplies are installed in the power supply slots.

The S5590-48P6XC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-22](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-48P6XC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-22](#), an LSWM2QP2P interface card is installed in the expansion slot.

The S5590-48P6XC-EI switch with PID LS-5590-48P6XC-EI-GL supports shipping with fan trays and power supplies installed. For the switch to be shipped with fan trays or power supplies installed, contact the marketing staff.

S5590-24X4YC-EI

Figure2-23 Front panel

(1) SFP+ port	(2) SFP28 port
(3) Management Ethernet port (MGMT)	(4) Console port (CONSOLE)
(5) Mode button	(6) USB port
(7) System status LED (SYS)	(8) Mode LED (MODE)
(9) Expansion card status LED (SLOT)	(10) Power supply 2 status LED (PWR2)
(11) Power supply 1 status LED (PWR1)	(12) Management Ethernet port LED (LINK/ACT)
(13) SFP28 port LED (SFP28)	(14) SFP+ port LED

Figure2-24 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

The S5590-24X4YC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-24](#), two PSR180-12A-B AC power supplies are installed in the power supply slots.

The S5590-24X4YC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-24](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

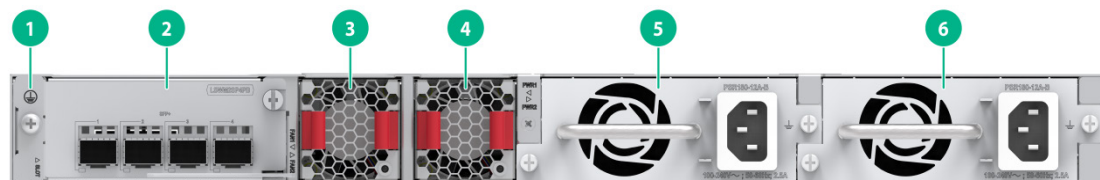
The S5590-24X4YC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-24](#), an LSWM2SP8P interface card is installed in the expansion slot.

S5590-48TS4X2QC-EI

Figure2-25 Front panel

(1) 10/100/1000BASE-T autosensing Ethernet port	(2) 10/100/1000BASE-T autosensing Ethernet port LED
(3) SFP port	(4) SFP port LED
(5) SFP+ port	(6) SFP+ port LED
(7) QSFP+ port	(8) Management Ethernet port LED (ACT)
(9) Management Ethernet port (MGMT)	(10) Management Ethernet port LED (LINK)
(11) USB port	(12) Console port (CONSOLE)
(13) QSFP+ port LED	(14) System status LED (SYS)
(15) Expansion card status LED (SLOT)	(16) Power supply 2 status LED (PWR2)
(17) Power supply 1 status LED (PWR1)	

Figure2-26 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

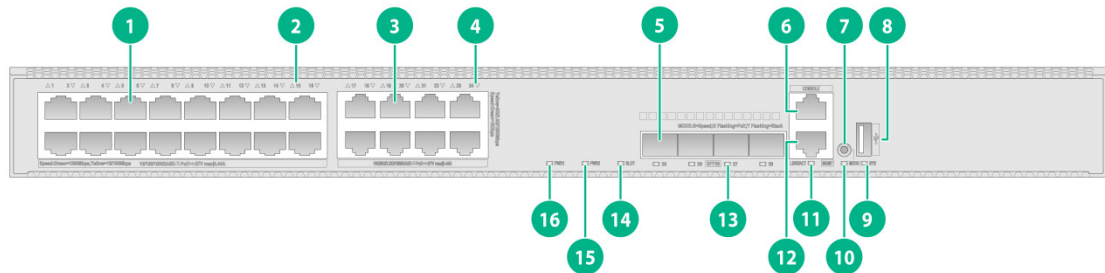
The S5590-48TS4X2QC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-26](#), two PSR180-12A-B AC power supplies are installed in the power supply slots.

The S5590-48TS4X2QC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-26](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-48TS4X2QC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-26](#), an LSWM2SP8P interface card is installed in the expansion slot.

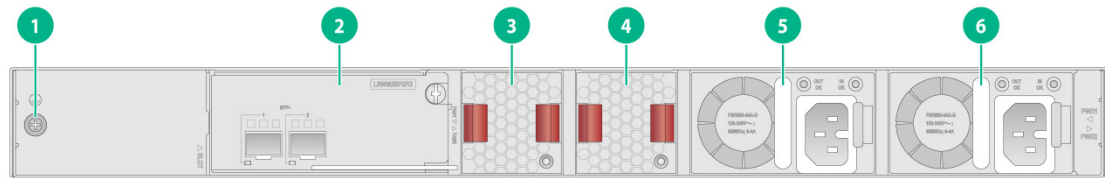
S5590-24UXM4YC-EI

Figure2-27 Front panel



(1) 10/100/1000BASE-T autosensing Ethernet port	(2) 10/100/1000BASE-T autosensing Ethernet port LED
(3) 10G/5G/2.5G/1000 BASE-T autosensing Ethernet port	(4) 10G/5G/2.5G/1000 BASE-T autosensing Ethernet port LED
(5) SFP28 port	(6) Console port (CONSOLE)
(7) Mode button	(8) USB port
(9) System status LED (SYS)	(10) Mode LED (MODE)
(11) Management Ethernet port LED (LINK/ACT)	(12) Management Ethernet port
(13) SFP28 port LED	(14) Expansion card status LED (SLOT)
(15) Power supply 2 status LED (PWR2)	(16) Power supply 1 status LED (PWR1)

Figure2-28 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

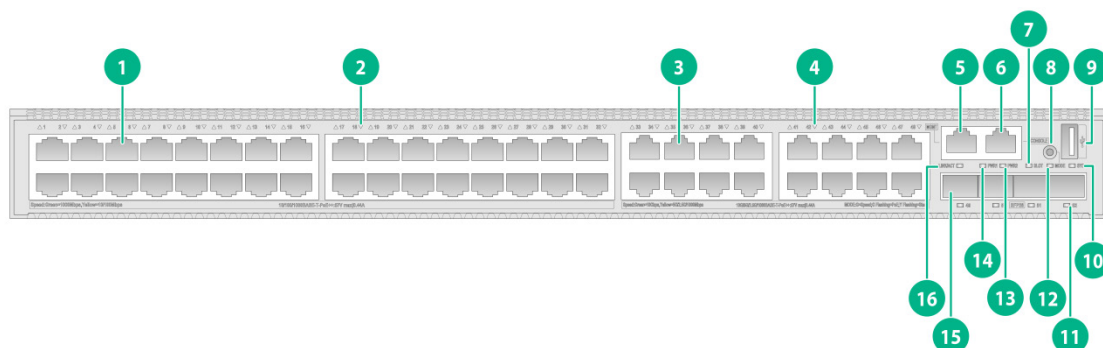
The S5590-24UXM4YC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-28](#), two PSR600-54A-B AC power supplies are installed in the power supply slots.

The S5590-24UXM4YC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-28](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-24UXM4YC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-28](#), an LSWM2SP2PB interface module is installed in the expansion slot.

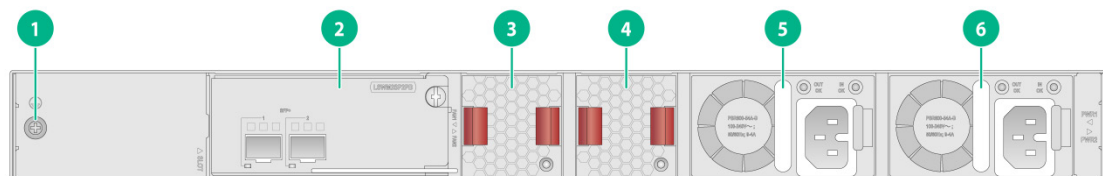
S5590-48UXM4YC-EI

Figure2-29 Front panel



(1) 10/100/1000BASE-T autosensing Ethernet port	(2) 10/100/1000BASE-T autosensing Ethernet port LED
(3) 10G/5G/2.5G/1000 BASE-T autosensing Ethernet port	(4) 10G/5G/2.5G/1000 BASE-T autosensing Ethernet port LED
(5) Management Ethernet port	(6) Console port (CONSOLE)
(7) Expansion card status LED (SLOT)	(8) Mode button
(9) USB port	(10) System status LED (SYS)
(11) SFP28 port LED	(12) Mode LED (MODE)
(13) Power supply 2 status LED (PWR2)	(14) Power supply 1 status LED (PWR1)
(15) SFP28 port	(16) Management Ethernet port LED (LINK/ACT)

Figure2-30 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

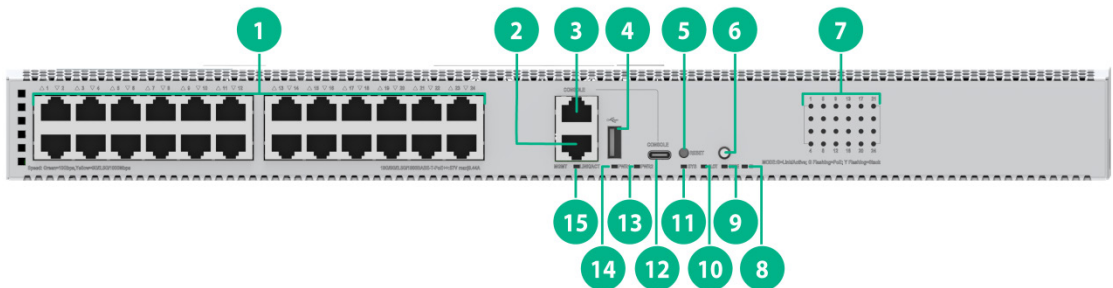
The S5590-48UXM4YC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-30](#), two PSR600-54A-B AC power supplies are installed in the power supply slots.

The S5590-48UXM4YC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-30](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-48UXM4YC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-30](#), an LSWM2SP2PB interface module is installed in the expansion slot.

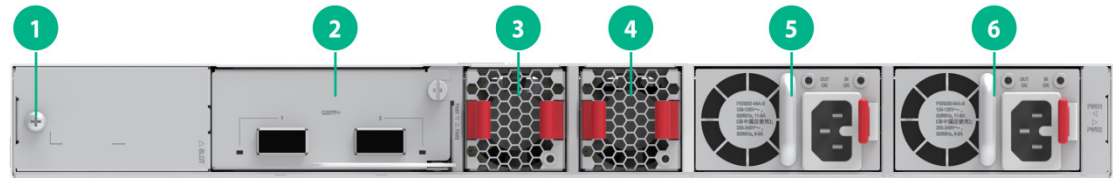
S5590-24UXMC-EI

Figure2-31 Front panel



(1) 10G/5G/2.5G/1000 BASE-T autosensing Ethernet port	(2) Management Ethernet port
(3) Console port	(4) USB port
(5) Reset button	(6) Mode button
(7) 10G/5G/2.5G/1000 BASE-T autosensing Ethernet port LED	(8) ID LED (ID)
(9) Mode LED (MODE)	(10) Expansion card status LED (SLOT)
(11) System status LED (SYS)	(12) Type-C USB console port
(13) Power supply 2 status LED (PWR2)	(14) Power supply 1 status LED (PWR1)
(15) Management Ethernet port LED (LINK/ACT)	

Figure2-32 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

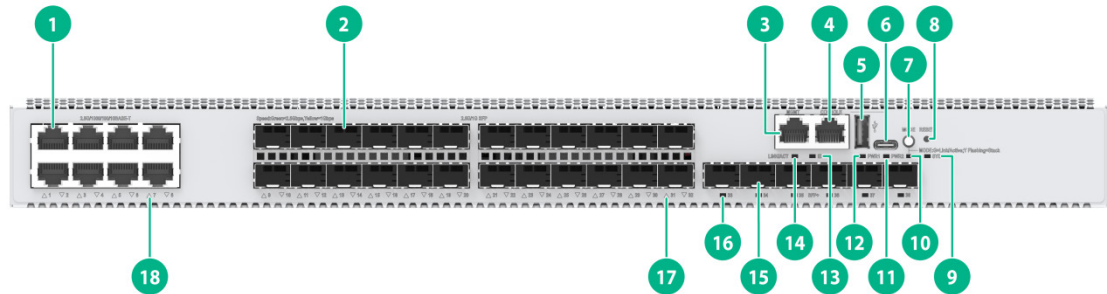
The S5590-24UXMC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-32](#), two PSR600-54A-B AC power supplies are installed in the power supply slots.

The S5590-24UXMC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-32](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-24UXMC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-32](#), an LSWM2SP2PB interface module is installed in the expansion slot.

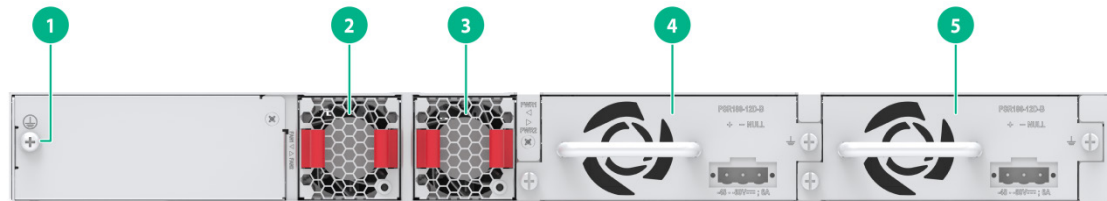
S5590-8N24NS6X-EI

Figure2-33 Front panel



(1) 2.5G/1000M/100M/10M BASE-T autosensing Ethernet port	(2) 2.5G SFP port
(3) Management Ethernet port	(4) Console port
(5) USB port	(6) USB type-C console port
(7) Mode button	(8) Reset button
(9) System status LED (SYS)	(10) Mode LED (MODE)
(11) Power supply 2 status LED (PWR2)	(12) Power supply 1 status LED (PWR1)
(13) ID LED (ID)	(14) Management Ethernet port LED (LINK/ACT)
(15) SFP+ port	(16) SFP+ port LED
(17) 2.5G SFP port LED	(18) 2.5G/1000M/100M/10M BASE-T autosensing Ethernet port LED

Figure2-34 Rear panel



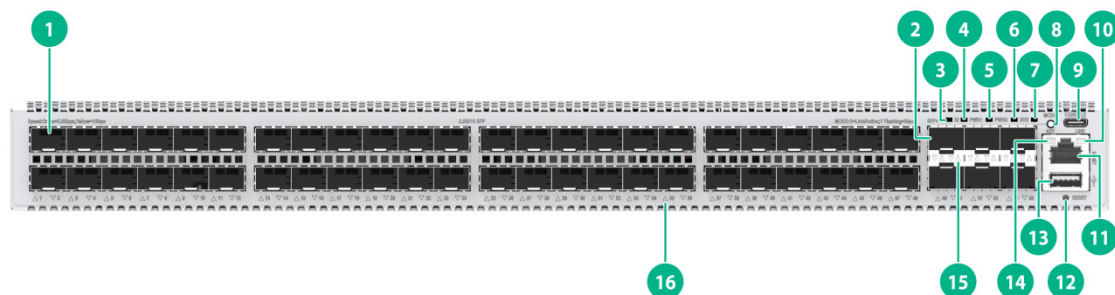
(1) Grounding screw	(2) Fan tray 1
(3) Fan tray 2	(4) Power supply 1
(5) Power supply 2	

The S5590-8N24NS6X-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-34](#), two PSR180-12D-B power supplies are installed in the power supply slots.

The S5590-8N24NS6X-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-34](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

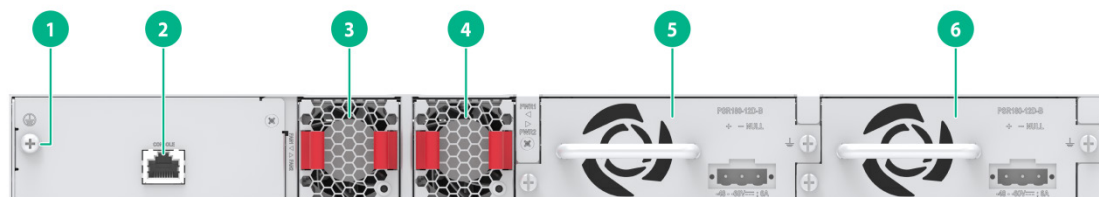
S5590-48NS6X-EI

Figure2-35 Front panel



(1) 2.5G SFP port	(2) SFP+ port
(3) ID LED (ID)	(4) Power supply 1 status LED (PWR1)
(5) Power supply 2 status LED (PWR2)	(6) System status LED (SYS)
(7) Mode LED (MODE)	(8) Mode button
(9) USB type-C console port	(10) Management Ethernet port LED (LINK)
(11) Management Ethernet port	(12) Reset button
(13) USB port	(14) Management Ethernet port LED (ACT)
(15) SFP+ port LED	(16) 2.5G SFP port LED

Figure2-36 Rear panel



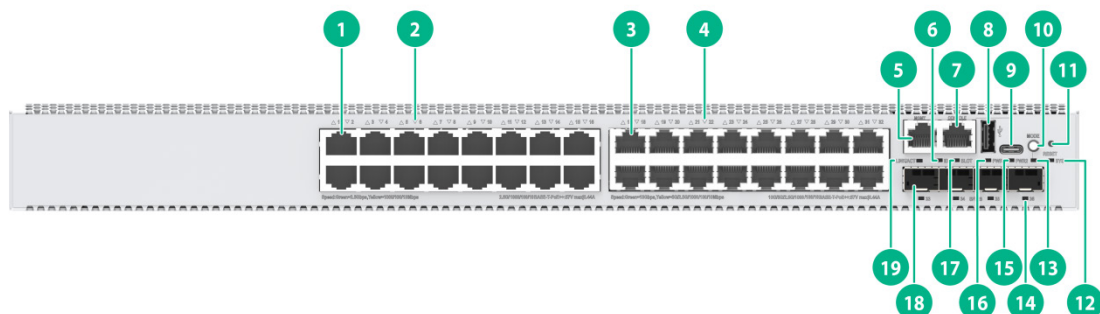
(1) Grounding screw	(2) Console port
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

The S5590-48NS6X-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-36](#), two PSR180-12D-B power supplies are installed in the power supply slots.

The S5590-48NS6X-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-36](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

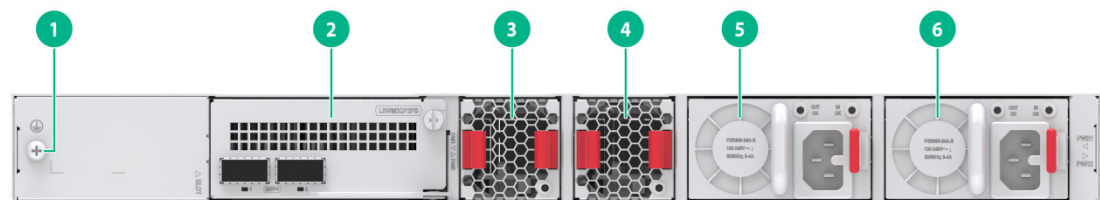
S5590-16UN16UM4YC-EI

Figure2-37 Front panel



(1) 2.5G/1000M/100M/10M BASE-T autosensing Ethernet port	(2) 2.5G/1000M/100M/10M autosensing Ethernet port LED
(3) 10G/5G/2.5G/1000M/100M/10M BASE-T autosensing Ethernet port	(4) 10G/5G/2.5G/1000M/100M/10M BASE-T autosensing Ethernet port LED
(5) Management Ethernet port	(6) ID LED (ID)
(7) Console port (CONSOLE)	(8) USB port
(9) USB type-C console port	(10) Mode button
(11) Reset button	(12) System status LED (SYS)
(13) Mode LED (MODE)	(14) SFP28 port LED
(15) Power supply 2 status LED (PWR2)	(16) Power supply 1 status LED (PWR1)
(17) Expansion card status LED (SLOT)	(18) SFP28 port
(19) Management Ethernet port LED (LINK/ACT)	

Figure2-38 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

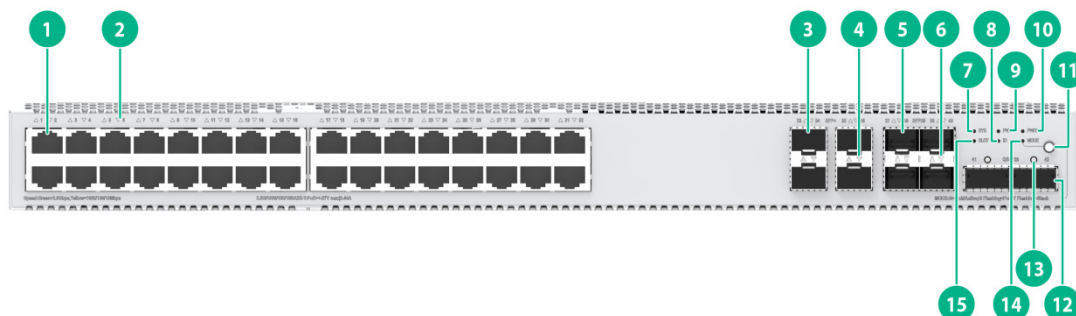
The S5590-16UN16UM4YC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-38](#), two PSR600-54A-B AC power supplies are installed in the power supply slots.

The S5590-16UN16UM4YC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-38](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-16UN16UM4YC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-38](#), an LSWM2QP2PB interface module is installed in the expansion slot.

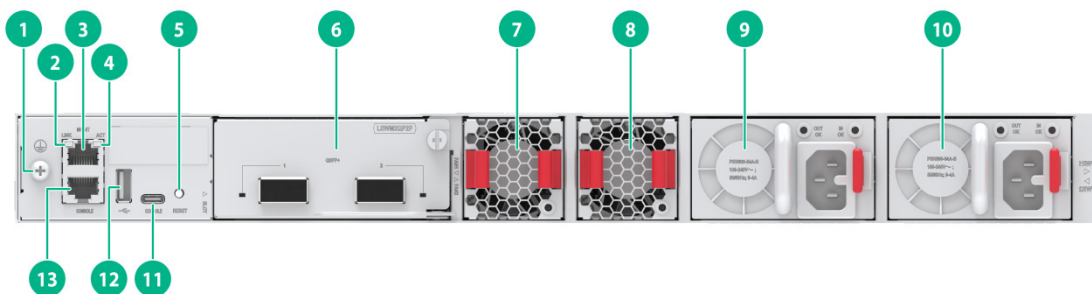
S5590-32UN4X4Y2CC-EI

Figure2-39 Front panel



(1) 2.5G/1000M/100M/10M BASE-T autosensing Ethernet port	(2) 2.5G/1000M/100M/10M BASE-T autosensing Ethernet port LED
(3) SFP+ port	(4) SFP+ port LED
(5) SFP28 port	(6) SFP28 port LED
(7) System status LED (SYS)	(8) ID LED (ID)
(9) Power supply 1 status LED (PWR1)	(10) Power supply 2 status LED (PWR2)
(11) Mode button	(12) QSFP28 port
(13) QSFP28 port LED	(14) Mode LED (MODE)
(15) Expansion card status LED (SLOT)	

Figure2-40 Rear panel



(1) Grounding screw	(2) Management Ethernet port LED (LINK)
(3) Management Ethernet port	(4) Management Ethernet port LED (ACT)
(5) Reset button	(6) Expansion card
(7) Fan tray 1	(8) Fan tray 2
(9) Power supply 1	(10) Power supply 2
(11) USB type-C console port	(12) USB port
(13) Console port (CONSOLE)	

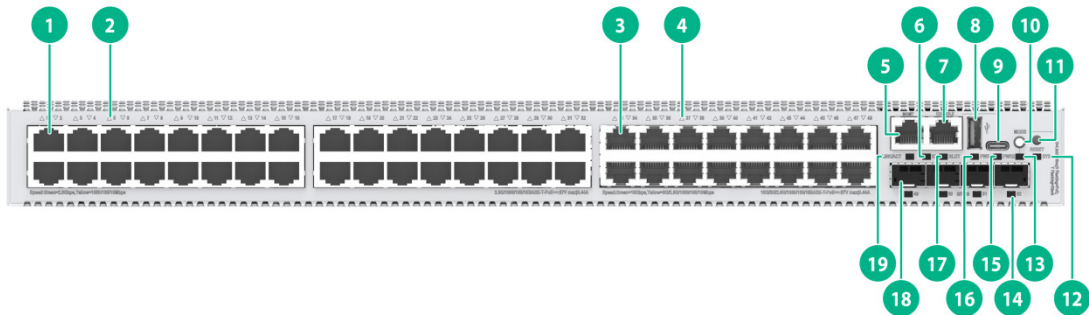
The S5590-32UN4X4Y2CC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-40](#), two PSR600-54A-B AC power supplies are installed in the power supply slots.

The S5590-32UN4X4Y2CC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-40](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-32UN4X4Y2CC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-40](#), an LSWM2QP2P interface module is installed in the expansion slot.

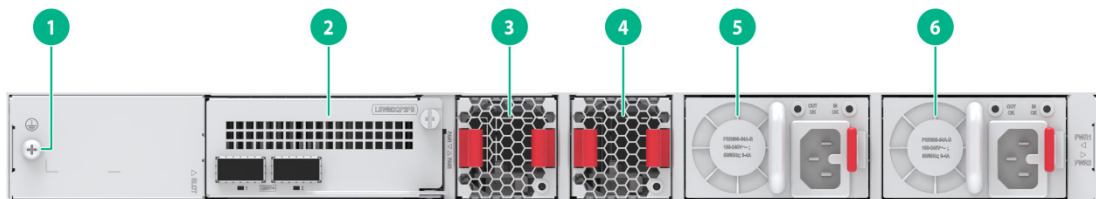
S5590-32UN16UM4YC-EI

Figure2-41 Front panel



(1) 2.5G/1000M/100M/10M BASE-T autosensing Ethernet port	(2) 2.5G/1000M/100M/10M autosensing Ethernet port LED
(3) 10G/5G/2.5G/1000M/100M/10M BASE-T autosensing Ethernet port	(4) 10G/5G/2.5G/1000M/100M/10M BASE-T autosensing Ethernet port LED
(5) Management Ethernet port	(6) ID LED (ID)
(7) Console port (CONSOLE)	(8) USB port
(9) USB type-C console port	(10) Mode button
(11) Reset button	(12) System status LED (SYS)
(13) Mode LED (MODE)	(14) SFP28 port LED
(15) Power supply 2 status LED (PWR2)	(16) Power supply 1 status LED (PWR1)
(17) Expansion card status LED (SLOT)	(18) SFP28 port
(19) Management Ethernet port LED (LINK/ACT)	

Figure2-42 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Power supply 1	(6) Power supply 2

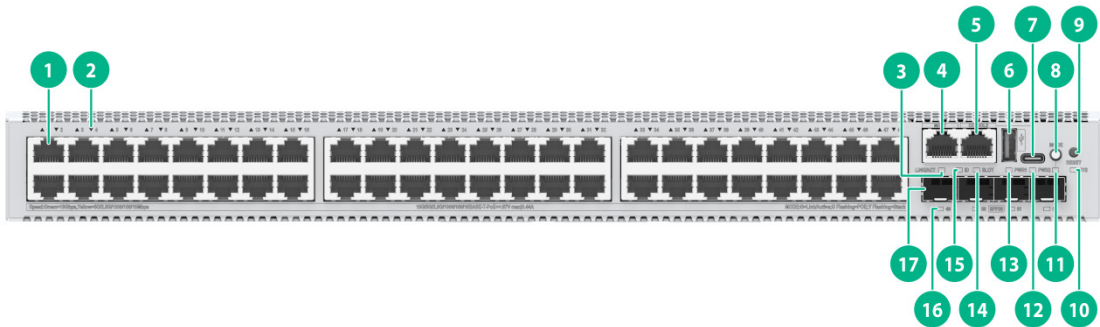
The S5590-32UN16UM4YC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-42](#), two PSR600-54A-B AC power supplies are installed in the power supply slots.

The S5590-32UN16UM4YC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-42](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-32UN16UM4YC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-42](#), an LSWM2SP2PB interface module is installed in the expansion slot.

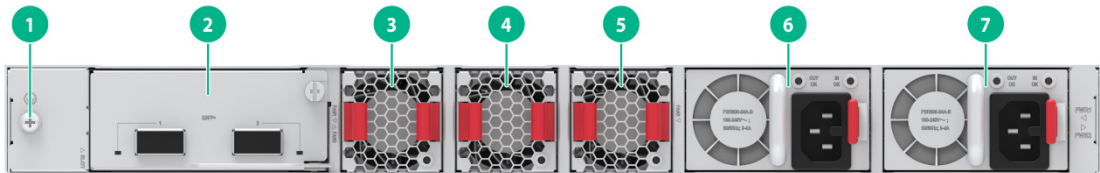
S5590-48UM4YC-EI

Figure2-43 Front panel



(1) 10G/5G/2.5G/1000M/100M/10M BASE-T autosensing Ethernet port	(2) 10G/5G/2.5G/1000M/100M/10M BASE-T autosensing Ethernet port LED
(3) Management Ethernet port LED (LINK/ACT)	(4) Management Ethernet port
(5) Console port (CONSOLE)	(6) USB port
(7) USB type-C console port	(8) Mode button
(9) Reset button	(10) System status LED (SYS)
(11) Mode LED (MODE)	(12) Power supply 2 status LED (PWR2)
(13) Power supply 1 status LED (PWR1)	(14) Expansion card status LED (SLOT)
(15) ID LED (ID)	(16) SFP28 port LED
(17) SFP28 port	

Figure2-44 Rear panel



(1) Grounding screw	(2) Expansion card
(3) Fan tray 1	(4) Fan tray 2
(5) Fan tray 3	(6) Power supply 1
(7) Power supply 2	

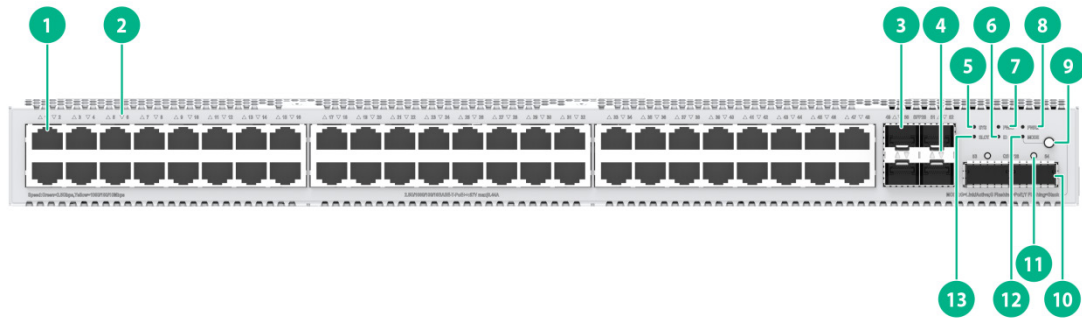
The S5590-48UM4YC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-44](#), two PSR600-54A-B AC power supplies are installed in the power supply slots.

The S5590-48UM4YC-EI switch came with three fan tray slots empty. You must install three fan trays of the same model for the switch. In [Figure2-44](#), three LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-48UM4YC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-44](#), an LSWM2SP2PB interface module is installed in the expansion slot.

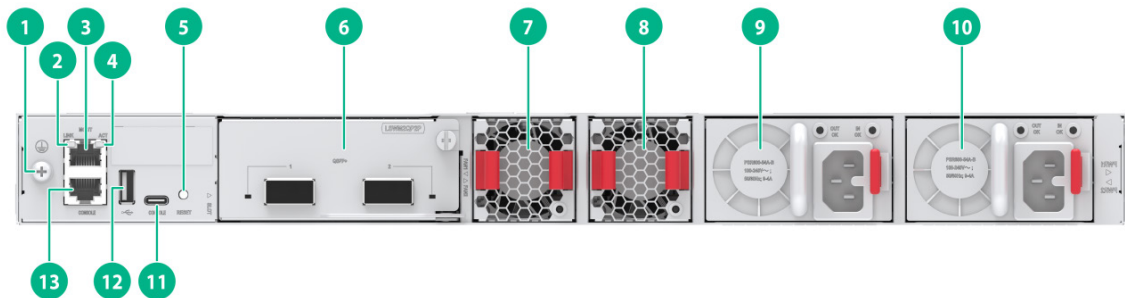
S5590-48UN4Y2CC-EI

Figure2-45 Front panel



(1) 2.5G/1000M/100M/10M BASE-T autosensing Ethernet port	(2) 2.5G/1000M/100M/10M BASE-T autosensing Ethernet port LED
(3) SFP28 port	(4) SFP28 port LED
(5) System status LED (SYS)	(6) ID LED (ID)
(7) Power supply 1 status LED (PWR1)	(8) Power supply 2 status LED (PWR2)
(9) Mode button	(10) QSFP28 port
(11) QSFP28 port LED	(12) Mode LED (MODE)
(13) Expansion card status LED (SLOT)	

Figure2-46 Rear panel



(1) Grounding screw	(2) Management Ethernet port LED (LINK)
(3) Management Ethernet port	(4) Management Ethernet port LED (ACT)
(5) Reset button	(6) Expansion card
(7) Fan tray 1	(8) Fan tray 2
(9) Power supply 1	(10) Power supply 2
(11) USB type-C console port	(12) USB port
(13) Console port (CONSOLE)	

The S5590-48UN4Y2CC-EI switch came with power supply slot 1 empty and power supply slot 2 installed with a filler panel. You can install one or two power supplies for the switch as required. In [Figure2-46](#), two PSR600-54A-B AC power supplies are installed in the power supply slots.

The S5590-48UN4Y2CC-EI switch came with two fan tray slots empty. You must install two fan trays of the same model for the switch. In [Figure2-46](#), two LSPM1FANSB-SN fan trays are installed in the fan tray slots.

The S5590-48UN4Y2CC-EI switch came with one expansion slot installed with a filler panel. You can select an expansion card for the switch as required. In [Figure2-46](#), an LSWM2QP2P interface card is installed in the expansion slot.

3 Removable components and compatibility matrixes

The switch supports removable components. [Table3-1](#) and [Table3-2](#) describes the removable components available for the switch.

Table3-1 Compatibility matrix between switches and removable components (1)

FRU model	S5590-28T8X C-HI S5590-28S8X C-HI	S5590-48T4X C-HI S5590-48S4X C-HI	S5590-28T8X C-EI S5590-28S8X C-EI S5590-48T4X C-EI S5590-48S4X C-EI	S5590-28P8X C-EI S5590-48P6X C-EI	S5590-24UX M4YC-EI S5590-48UX M4YC-EI
Removable power supplies					
PSR250-12A	Supported	Supported	Not supported	Not supported	Not supported
PSR250-12A 1	Supported	Supported	Not supported	Not supported	Not supported
PSR180-12A- B	Not supported	Not supported	Supported	Not supported	Not supported
PSR180-12A- F	Not supported	Not supported	Supported	Not supported	Not supported
PSR180-12D- B	Not supported	Not supported	Supported	Not supported	Not supported
PSR600-54A- B	Not supported	Not supported	Not supported	Supported	Supported
PSR920-54A- B	Not supported	Not supported	Not supported	Supported	Supported
PSR1600-54 A-B	Not supported	Not supported	Not supported	Supported	Supported
Removable fan trays					
LSPM1FANS A-SN	Supported	Supported	Supported	Not supported	Not supported
LSPM1FANS B-SN	Supported	Supported	Supported	Supported	Supported
Expansion cards					
LSPM6FWD	Supported	Expansion cards supported by expansion slots 1 and 2 depend on the port rate	Supported	Supported	Not supported
LSWM2EC	Supported		Supported	Supported	Supported
LSWM2QP2P	Supported		Supported	Supported	Not supported
LSWM2SP8P	Supported		Supported	Supported	Not supported

FRU model	S5590-28T8X C-HI S5590-28S8X C-HI	S5590-48T4X C-HI S5590-48S4X C-HI	S5590-28T8X C-EI S5590-28S8X C-EI S5590-48T4X C-EI S5590-48S4X C-EI	S5590-28P8X C-EI S5590-48P6X C-EI	S5590-24UX M4YC-EI S5590-48UX M4YC-EI
LSWM2ZQP2 P	Supported	mode. For more information, see Table3-6 .	Supported	Supported	Not supported
LSWM2ZSP8 P	Supported		Supported	Supported	Not supported
LSWM2SP2P B	Supported		Supported	Supported	Supported
LSWM2SP4P B	Supported		Supported	Supported	Supported
LSWM2ZSP4 P	Not supported	Not supported	Not supported	Not supported	Supported
LSWM2QP2P B	Not supported	Not supported	Not supported	Not supported	Supported

Table3-2 Compatibility matrix between switches and removable components (2)

FRU model	S5590-24X4YC-EI	S5590-48TS4X2QC-EI
Removable power supplies		
PSR180-12A-B	Supported	Supported
PSR180-12A-F	Supported	Supported
PSR180-12D-B	Supported	Supported
Removable fan trays		
LSPM1FANSA-S N	Supported	Supported
LSPM1FANSB-S N	Supported	Supported
Expansion cards		
LSPM6FWD	Not supported	Supported
LSWM2QP2P	Not supported	Supported
LSWM2SP8P	Not supported	Supported
LSWM2ZQP2P	Not supported	Supported
LSWM2ZSP8P	Not supported	Supported
LSWM2SP2PB	Supported	Supported
LSWM2SP4PB	Supported	Supported
LSWM2EC	Supported	Supported
LSWM2ZSP4P	Supported	Supported

FRU model	S5590-24X4YC-EI	S5590-48TS4X2QC-EI
LSWM2QP2PB	Supported	Supported

Table3-3 Compatibility matrix between switches and removable components (3)

FRU model	S5590-24UXMC-EI
Removable power supplies	
PSR600-54A-B	Supported
PSR920-54A-B	Supported
PSR1300-54D-B	Supported
PSR1600-54A-B	Supported
Removable fan trays	
LSPM1FANSA-S N	Not supported
LSPM1FANSB-S N	Supported
Expansion cards	
LSPM6FWD	Supported
LSWM2QP2P	Supported
LSWM2SP8P	Supported
LSWM2ZQP2P	Supported
LSWM2ZSP8P	Supported
LSWM2SP2PB	Not supported
LSWM2SP4PB	Not supported
LSWM2EC	Supported
LSWM2ZSP4P	Not supported

Table3-4 Compatibility matrix between switches and removable components (4)

FRU model	S5590-8N24NS6 X-EI	S5590-48NS6X- EI	S5590-16UN16U M4YC-EI	S5590-32UN4X4 Y2CC-EI
Removable power supplies				
PSR180-12A-B	Supported	Supported	Not supported	Not supported
PSR180-12A-F	Supported	Supported	Not supported	Not supported
PSR180-12D-B	Supported	Supported	Not supported	Not supported
PSR600-54A-B	Not supported	Not supported	Supported	Supported
PSR920-54A-B	Not supported	Not supported	Supported	Supported
PSR1300-54D-B	Not supported	Not supported	Supported	Supported
PSR1600-54A-B	Not supported	Not supported	Supported	Supported

FRU model	S5590-8N24NS6 X-EI	S5590-48NS6X- EI	S5590-16UN16U M4YC-EI	S5590-32UN4X4 Y2CC-EI
Removable fan trays				
LSPM1FANSA-S N	Supported	Supported	Not supported	Not supported
LSPM1FANSB-S N	Supported	Supported	Supported	Supported
Expansion cards				
LSPM6FWD	Not supported	Not supported	Supported	Supported
LSPM6FWD8	Not supported	Not supported	Supported	Supported
LSPM6FWDB	Not supported	Not supported	Supported	Supported
LSWM2QP2P	Not supported	Not supported	Not supported	Supported
LSWM2SP8P	Not supported	Not supported	Not supported	Supported
LSWM2QP2PB	Not supported	Not supported	Supported	Not supported
LSWM2EC	Not supported	Not supported	Supported	Supported
LSWM2ZSP4P	Not supported	Not supported	Supported	Not supported
LSWM2-iMC	Not supported	Not supported	Supported	Not supported

Table3-5 Compatibility matrix between switches and removable components (5)

FRU model	S5590-32UN16UM4YC- EI	S5590-48UM4YC-EI	S5590-48UN4Y2CC-EI
Removable power supplies			
PSR600-54A-B	Supported	Supported	Supported
PSR920-54A-B	Supported	Supported	Supported
PSR1300-54D-B	Supported	Supported	Supported
PSR1600-54A-B	Supported	Supported	Supported
Removable fan trays			
LSPM1FANSA-S N	Not supported	Not supported	Not supported
LSPM1FANSB-S N	Supported	Supported	Supported
Expansion cards			
LSPM6FWD	Supported	Supported	Supported
LSPM6FWD8	Supported	Not supported	Supported
LSPM6FWDB	Supported	Supported	Supported
LSWM2QP2P	Not supported	Not supported	Supported
LSWM2SP8P	Not supported	Not supported	Supported
LSWM2QP2PB	Supported	Supported	Not supported
LSWM2EC	Supported	Supported	Supported

FRU model	S5590-32UN16UM4YC-EI	S5590-48UM4YC-EI	S5590-48UN4Y2CC-EI
LSWM2ZSP4P	Supported	Supported	Not supported
LSWM2-iMC	Supported	Supported	Not supported

Table3-6 Expansion card and expansion slot compatibility for the S5590-48T4XC-HI and S5590-48S4XC-HI switches

Expansion card	S5590-48T4XC-HI S5590-48S4XC-HI					
	Expansion slot 1			Expansion slot 2		
	mode0	mode1	mode2	mode0	mode1	mode2
LSPM6FWD	Supported	Not supported	Supported	Supported	Supported	Supported
LSWM2EC	Not supported	Supported	Supported	Supported	Supported	Supported
LSWM2QP2P	Supported	Not supported	Supported	Supported	Supported	Supported
LSWM2SP2PB	Not supported	Supported	Supported	Supported	Supported	Supported
LSWM2SP4PB	Not supported	Supported	Supported	Supported	Supported	Supported
LSWM2SP8P	Not supported	Not supported	Supported	Supported	Supported	Supported
LSWM2ZQP2P	Not supported	Not supported	Not supported	Supported	Supported	Supported
LSWM2ZSP8P	Not supported	Not supported	Not supported	Supported	Supported	Supported

Do not install the PSR1600-54A-B and PSR600-54A-B power supplies on the same switch.

For non-PoE switches, you can install one power supply, or two power supplies for 1+1 redundancy on the switch.

For PoE switches, you can install one power supply, or two power supplies for 1+1 redundancy on the switch. PoE capabilities vary by power supply configuration. When a power supply fails, PoE capabilities of the switch might decrease. For more information about PoE power capacity, see "[S5590-EI switch series technical specifications](#)."

The switch uses removable fan trays. Do not power on the switch if it does not have two fan trays of the same model installed.

For the S5590-48T4XC-HI and S5590-48S4XC-HI switches, you can use the **port-speed-mode** command to configure the port rate mode for an expansion slot. By default, the port rate mode for an expansion slot is mode0. To have the configuration take effect, you must save the configuration and restart the switch. For more information about the **port-speed-mode** command, see Ethernet interface commands in the command reference for the switch.

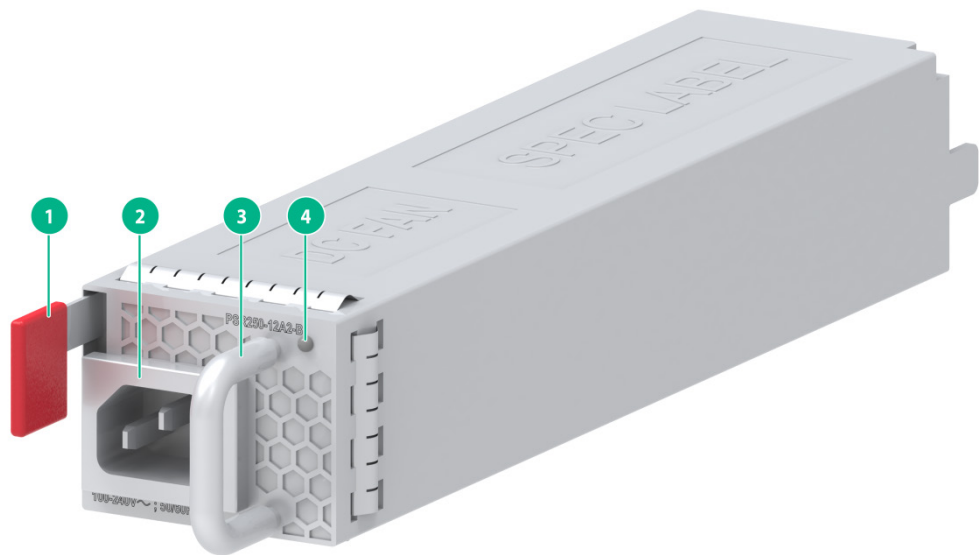
The S5590-28P8XC-EI (LS-5590-28P8XC-EI-GL), S5590-48P6XC-EI (LS-5590-48P6XC-EI-GL), S5590-28S8XC-EI (LS-5590-28S8XC-EI-GL), and S5590-48S4XC-EI (LS-5590-48S4XC-EI-GL) switches support shipping with fan trays and power supplies installed. For the switch to be shipped with fan trays or power supplies installed, contact the marketing staff.

4 Removable power supplies

250W AC power supplies (PSR250-12A2-B and PSR250-12A2-F)

View

Figure4-1 PSR250-12A2-B AC power supply



(1) Latch	(2) Power input receptacle
(3) Handle	(4) Status LED

NOTE:

The PSR250-12A2-B and PSR250-12A2-F are similar in views except for their marks.

Functions

The PSR250-12A2-B and PSR250-12A2-F are AC and DC input and DC output power supplies. They provide a maximum output of 250 W.

Table4-1 PSR250-12A2-B/PSR250-12A2-F power supply features

Feature	Description
Protection function	The power supply provides protection against input undervoltage, input overcurrent, output overvoltage, output overcurrent, output shortcircuit, and overtemperature conditions.
Support for redundancy	Two power supplies can be connected in parallel to achieve 1+1 redundancy and load balancing.
Support for hot swapping	You can remove one of the power supplies in 1+1 redundancy when the device is operating.

Technical specifications

Table4-2 Technical specifications

Item	Specification
Dimensions (H × W × D, including the handle)	40.2 × 50.5 × 246 mm (1.58 × 1.99 × 9.69 in)
Weight	0.6 kg (1.32 lb)
Rated AC input voltage range	AC input: 100 to 240 VAC HVDC input: 192 to 288 VDC
Max AC input voltage range	AC input: 90 to 290 VAC HVDC input: 180 to 320 VDC
Rated input current	AC input: 4 A (100 to 240 V) @ 50 to 60 Hz HVDC input: 2 A (240 V)
Rated output current	20.9 A
Rated output voltage	12 V
Rated output power	250 W
Melting current of power supply fuse	15 A/250 V
Support for asset management	Yes NOTE: You can use the display device manuinfo command to view the name, sequence number, and vendor of the power supply you have installed on the switch.

LEDs

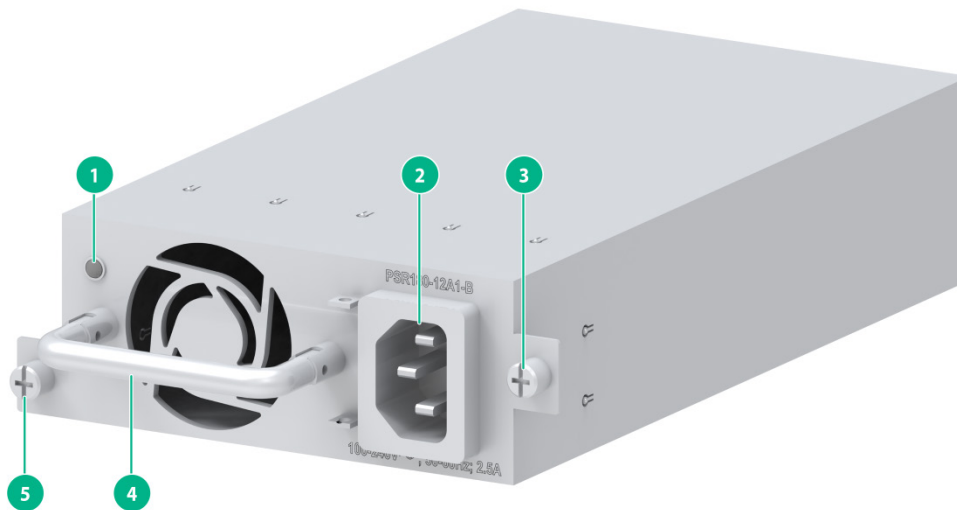
Table4-3 LED description

LED status	Description
Steady green	The power supply is operating correctly.
Flashing green	The power supply has normal power input but has not been installed on the device.
Steady red	The power supply has failed or has entered protection state.
Alternating between red and green	An alarm has occurred when one of the following conditions exists on the power supply but the power supply does not enter protection state: • Output overcurrent. • Output power overload. • Overtemperature.
Flashing red	• The power supply does not have power input. If the device has two power supplies, one with power input but the other without, the LED on the power supply without power input flashes red. • The power supply has entered input undervoltage protection state.
Off	No power input.

180W AC power supplies (PSR180-12A1-B and PSR180-12A1-F)

View

Figure4-2 PSR180-12A1-B AC power supply



(1) Status LED	(2) Power input receptacle
(3) Captive screw	(4) Handle
(5) Captive screw	

NOTE:

- The PSR180-12A1-B and PSR180-12A1-F are similar in views except for their marks.
- If the external power supply system provides HVDC, the switch must have a built-in AC power supply or use an AC power supply that supports HVDC input, and be equipped with the corresponding AC power cord. The PE wire of the AC power cord must be grounded, and the L and N wires can be connected to the positive and negative poles of the HVDC input arbitrarily.

Functions

The PSR180-12A1-B and PSR180-12A1-F are AC and DC input and DC output power supplies. They provide a maximum output of 180 W.

Table4-4 PSR180-12A1-B/PSR180-12A1-F power supply features

Feature	Description
Protection function	The power supply provides protection against input overcurrent, output overcurrent, output overvoltage, output shortcircuit, and overtemperature conditions.
Support for redundancy	Two power supplies can be connected in parallel to achieve 1+1 redundancy and load balancing.
Support for hot swapping	You can remove one of the power supplies in 1+1 redundancy when the device is operating.

Technical specifications

Table4-5 Technical specifications

Item	Specification
Dimensions (H × W × D, excluding the handle)	41.1 × 101.6 × 177 mm (1.62 × 4.00 × 6.97 in)
Dimensions (H × W × D, including the handle)	41.1 × 101.6 × 207 mm (1.62 × 4.00 × 8.15 in)
Weight	0.8 kg (1.76 lb)
Rated input voltage range	AC input: 100 to 240 VAC HVDC input: 240 VDC
Max input voltage range	AC input: 90 to 290 VAC HVDC input: 180 to 320 VDC
Rated input current	AC input: 2.5 A (100 to 240 V) @ 50 to 60 Hz HVDC input: 1.5 A (240 V)
Rated output current	15 A
Rated output voltage	12 V
Rated output power	180 W
Melting current of power supply fuse	6.3 A
Support for asset management	Yes NOTE: You can use the display device manuinfo command to view the name, sequence number, and vendor of the power supply you have installed on the switch.

LEDs

The PSR180-12A1-B and PSR180-12A1-F power supplies each have a status LED to indicate the power input and output status.

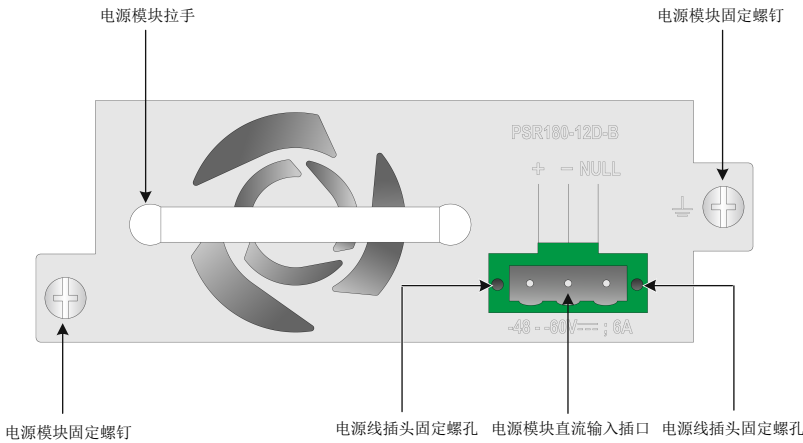
Table4-6 LED description

LED status	Description
Steady green	The power supply is operating correctly.
Flashing green	The power supply has normal power input but has not been installed on the device.
Steady red	The power supply has failed or has entered protection state.
Alternating between red and green	An alarm has occurred when one of the following conditions exists on the power supply but the power supply does not enter protection state: • Output overcurrent. • Output power overload. • Overtemperature.
Flashing red	• The power supply does not have power input. If the router has two power supplies, one with power input but the other without, the LED on the power supply without power input flashes red. • The power supply has entered input undervoltage protection state.
Off	No power input.

180W power supply (PSR180-12D-B)

View

Figure4-3 PSR180-12D-B DC power supply view



Functions

The PSR180-12D-B is a DC input and DC output power supply. It can convert the input voltage to 12 V as required and provides a maximum output of 180 W.

Table4-7 PSR180-12D-B power supply features

Feature	Description
Protection function	The power supply provides protection against input overcurrent, input undervoltage, output overvoltage, output current limiting, output shortcircuit, and overtemperature conditions.
Support for redundancy	Two power supplies can be connected in parallel to achieve 1+1 redundancy and load balancing.
Support for hot swapping	You can remove one of the power supplies in 1+1 redundancy when the device is operating.

Technical specifications

Table4-8 Technical specifications

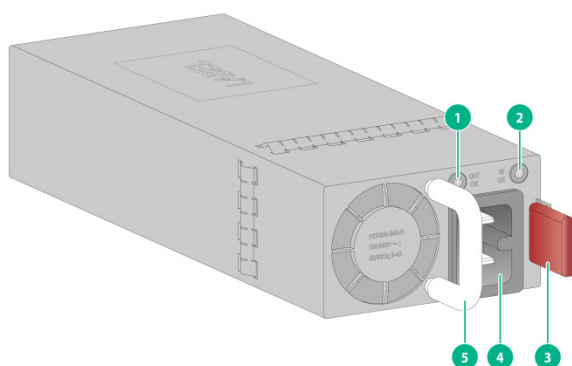
Item	Specification
Dimensions (H × W × D, including the handle)	41.1 × 101.6 × 207 mm (1.62 × 4.00 × 8.15 in)
Weight	1 kg (2.20 lb)
Rated input voltage range	-48 to -60 VDC
Max input voltage range	-36 to -72 VDC
Rated input current	N/A
Rated output current	15 A
Rated output voltage	12 V
Rated output power	180 W

Item	Specification
Melting current of power supply fuse	8 A/125 V
Support for asset management	Yes NOTE: You can use the display device manuinfo command to view the name, sequence number, and vendor of the power supply you have installed on the switch.

600W power supply (PSR600-54A-B)

View

Figure4-4 PSR600-54A-B AC power supply



(1) Output status LED (OUT OK)	(2) Input status LED (IN OK)
(3) Latch	(4) Power input receptacle
(5) Handle	

Functions

The PSR600-54A-B is an AC or HVDC input and DC output power supply.

Table4-9 PSR600-54A-B power supply features

Feature	Description
Protection function	The power supply provides protection against input overcurrent, input undervoltage, output overvoltage, output current limiting, output shortcircuit, and overtemperature conditions.
Support for redundancy	Two power supplies can be connected in parallel to achieve 1+1 redundancy and load balancing.
Support for hot swapping	You can remove one of the power supplies in 1+1 redundancy when the device is operating.

Technical specifications

Table4-10 Technical specifications

Item	Specification
Dimensions (H × W × D, including	40.2 × 73.5 × 213.8 mm (1.58 × 2.89 × 8.42 in)

Item	Specification
the handle)	
Weight	1 kg (2.20 lb)
Rated input voltage range	AC input: 100 to 240 VAC @ 50 or 60 Hz HVDC input: 240 VDC
Max input voltage range	AC input: 90 to 290 VAC @ 47 to 63 Hz HVDC input: 180 to 320 VDC
Rated input current	N/A
Rated output current	11 A
Rated output voltage	56 V
Rated output power	600 W
Melting current of power supply fuse	10 A/250 V
Support for asset management	Yes NOTE: You can use the display device manuinfo command to view the name, sequence number, and vendor of the power supply you have installed on the switch.

LEDs

The PSR600-54A-B power supply has two status LEDs to indicate the power input and output status, respectively.

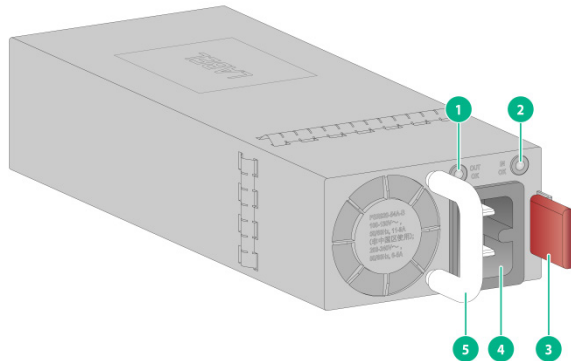
Table4-11 LED description

LED	Mark	Status	Description
Output status LED	OUT OK	Steady green	Normal power output.
		Steady red	Abnormal power output.
		Off	No power output.
Input status LED	IN OK	Steady green	Normal power input.
		Steady red	Abnormal power input.
		Off	No power input.

920W power supply (PSR920-54A-B)

View

Figure4-5 PSR920-54A-B AC power supply



(1) Output status LED (OUT OK)	(2) Input status LED (IN OK)
(3) Latch	(4) Power input receptacle
(5) Handle	

Functions

The PSR920-54A-B is an AC or HVDC input and DC output power supply.

Table4-12 PSR920-54A-B power supply features

Feature	Description
Protection function	The power supply provides protection against input overcurrent, input undervoltage, output overvoltage, output current limiting, output shortcircuit, and overtemperature conditions.
Support for redundancy	Two power supplies can be connected in parallel to achieve 1+1 redundancy and load balancing.
Support for hot swapping	You can remove one of the power supplies in 1+1 redundancy when the device is operating.

Technical specifications

Table4-13 Technical specifications

Item	Specification
Dimensions (H × W × D, including the handle)	40.2 × 73.5 × 213.8 mm (1.58 × 2.89 × 8.42 in)
Weight	1 kg (2.20 lb)
Rated input voltage range	AC input: 100 to 240 VAC @ 50 or 60 Hz HVDC input: 240 VDC
Max input voltage range	AC input: 90 to 290 VAC @ 47 to 63 Hz HVDC input: 180 to 320 VDC
Rated input current	N/A
Rated output current	16.5 A

Item	Specification
Rated output voltage	56 V
Rated output power	920 W
Melting current of power supply fuse	16 A/250 V
Support for asset management	Yes NOTE: You can use the display device manuinfo command to view the name, sequence number, and vendor of the power supply you have installed on the switch.

LEDs

The PSR920-54A-B power supply has two status LEDs to indicate the power input and output status, respectively.

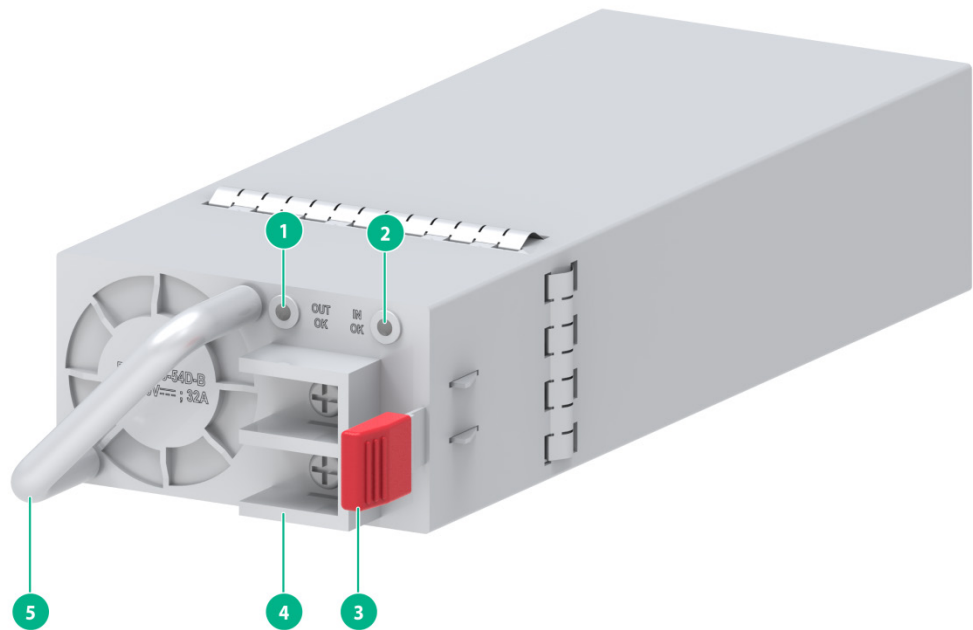
Table4-14 LED description

LED	Mark	Status	Description
Output status LED	OUT OK	Steady green	Normal power output.
		Steady red	Abnormal power output.
		Off	No power output.
Input status LED	IN OK	Steady green	Normal power input.
		Steady red	Abnormal power input.
		Off	No power input.

1300W DC power supply (PSR1300-54D-B)

View

Figure4-6 PSR1300-54D-B DC power supply view



(1) Output status LED (OUT OK)	(2) Input status LED (IN OK)
(3) Latch	(4) DC terminal
(5) Handle	

Features

The PSR1300-54D-B is a DC input and DC output DC power supply. It provides a maximum output of 1300 W.

Table4-15 PSR1300-54D-B power supply features

Feature	Description
Protection function	The power supply provides protection against input misinsertion, input overcurrent, DC input undervoltage, DC input overvoltage, output overvoltage, output overcurrent, output shortcircuit, overtemperature, and fan failure conditions.
Support for redundancy	Two power supplies can be connected in parallel to achieve 1+1 redundancy and load balancing.
Support for hot swapping	You can remove one of the power supplies in 1+1 redundancy when the switch is operating.

Technical specifications

Table4-16 Technical specifications

Item	Specification
Dimensions (H × W × D, including the handle)	213.8 × 73.5 × 40.2 mm (8.42 × 2.89 × 1.58 in)

Item	Specification
Weight	1 kg (2.20 lb)
Rated input voltage range	–48 V to –60 V
Max input voltage range	–36 V to –72 V
Rated input current	32 A
Rated output current	23.43 A
Rated output voltage	56 V
Rated output power	1300 W
Melting current of power supply fuse	60 A/80 VDC
Support for asset management	Yes NOTE: You can use the display device manuinfo command to view the name, sequence number, and vendor of the power supply you have installed on the switch.

LEDs

PSR1300-54D-B DC power supply provides two LEDs to indicate its output and input status.

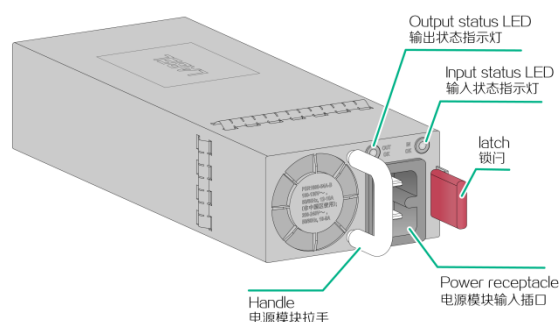
Table4-17 LED description

LED	Mark	Status	Specification
Input status LED	IN OK	Steady green	Normal power input.
		Off	No power input or abnormal power input.
Output status LED	OUT OK	Steady green	Normal power output.
		Steady red	Abnormal power output.
		Off	No power output.

1600W power supply (PSR1600-54A-B)

View

Figure4-7 PSR1600-54A-B AC power supply view



Features

PSR1600-54A-B is an AC power supply with AC or HVDC input and DC output. [Table4-18](#) describes the features provided by the PSR1600-54A-B power supply.

Table4-18 Features provided by the PSR1600-54A-B power supply

Feature	Description
Protection function	Protection against input overcurrent, input undervoltage, output overvoltage, output current limiting, output shortcircuit, and overtemperature conditions.
Support for redundancy	Two power supplies can be connected in parallel to achieve 1+1 redundancy and load balancing.
Support for hot swapping	You can remove one of the power supplies in 1+1 redundancy when the switch is operating correctly.

Technical specifications

Table4-19 Technical specifications

Item	Specification
Dimensions (H × W × D)	40.2 × 73.5 × 213.8 mm (1.58 × 2.89 × 8.42 in), including the handle
Weight	1 kg (2.20 lb)
Rated input voltage range	AC input: 100 VAC to 240 VAC @ 50 or 60 Hz HVDC input: 240 VDC
Max input voltage range	AC input: 90 VAC to 290 VAC @ 47 to 63 Hz HVDC input: 180 to 320 VDC
Rated input current	N/A
Rated output current	- AC: 17 A: 90 to 176 V @ 47 to 63 Hz 29 A: 176 to 290 V @ 47 to 63 Hz - DC: 29 A
Rated output voltage	56 V
Rated output power	- AC: 950 W: 90 to 176 V @ 47 to 63 Hz 1600 W: 176 to 290 V @ 47 to 63 Hz - DC: 1600 W
Melting current of power supply fuse	16 A/125 V
Support for asset management	Yes NOTE: You can use the display device manuinfo command to view the name, sequence number, and vendor of the power supply you have installed on the switch.

LEDs

The PSR1600-54A-B power supply has two status LEDs to indicate the power input and output status.

Table4-20 LED description

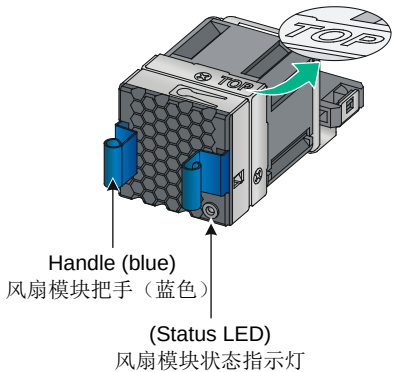
LED	Mark	Status	Description
Output status LED	OUT OK	Steady green	Normal power output.
		Steady red	Abnormal power output.
		Off	No power output.
Input status LED	IN OK	Steady green	Normal power input.
		Steady red	Abnormal power input.
		Off	No power input.

5 Removable fan trays

LSPM1FANSA-SN

View

Figure5-1 LSPM1FANSA-SN fan tray view



Features

The LSPM1FANSA-SN fan tray blows air from the power supply side to the port side. The fan tray features small size, fast heat dissipation, and hot swapping. It can automatically adjust the fan speed, providing powerful heat dissipation for the switch.

Technical specifications

Table5-1 Technical specifications

Item	Specification
Dimensions (H × W × D)	40.6 × 40 × 105 mm (1.60 × 1.57 × 4.13 in), including the handles
Fan quantity	1
Weight	N/A
Airflow direction	Air drawn in from the fan tray faceplate
Fan speed	20000 R.P.M
Max airflow	20 CFM (0.57 m ³ /min)
Input voltage	12 V
Max power consumption	9.8 W

LED

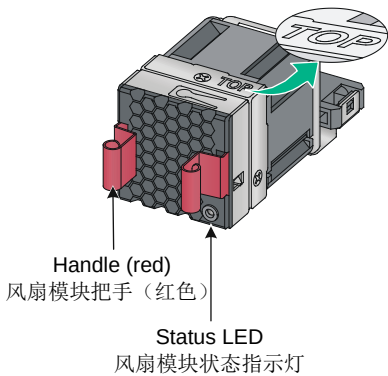
Table5-2 LED description

Status	Description
Off	The fan tray is operating correctly.
On	The fan tray is operating incorrectly.

LSPM1FANSB-SN

View

Figure5-2 LSPM1FANSB-SN fan tray view



Features

The LSPM1FANSB-SN fan tray draws air from the port side to the power supply side. The fan tray features small size, fast heat dissipation, and hot swapping. It can automatically adjust the fan speed, providing powerful heat dissipation for the switch.

Technical specifications

Table5-3 Technical specifications

Item	Specification
Dimensions (H × W × D)	40.6 × 40 × 105 mm (1.60 × 1.57 × 4.13 in), including the handles
Fan quantity	1
Weight	N/A
Airflow direction	Air exhausted from the fan tray faceplate
Fan speed	20000 R.P.M
Max airflow	20 CFM (0.57 m ³ /min)
Input voltage	12 V
Max power consumption	9.8 W

LED

Table5-4 LED description

Status	Description
Off	The fan tray is operating correctly.
On	The fan tray is operating incorrectly.

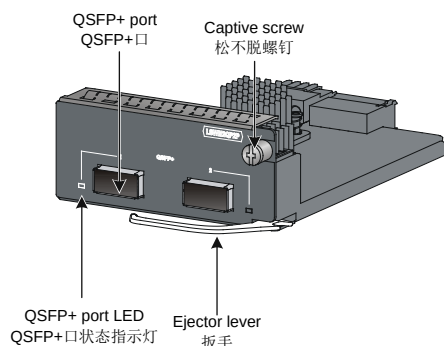
6 Expansion cards

LSWM2QP2P

About LSWM2QP2P

The LSWM2QP2P interface card provides two QSFP+ ports.

Figure6-1 LSWM2QP2P interface card view



Ports and LEDs

For information about the ports and transceiver modules and cables available for the ports, see "[QSFP+ port](#)."

For information about the LEDs, see "[QSFP+ port LED](#)."

Technical specifications

Table6-1 Technical specifications

Item	Specification
Dimensions (H × W × D)	40.1 × 95 × 147.5 mm (1.58 × 3.74 × 5.81 in)
Weight	0.4 kg (0.88 lb)
Power consumption (static)	9 W
Power consumption (with typical configuration)	10 W
Power consumption (fully configured)	14 W

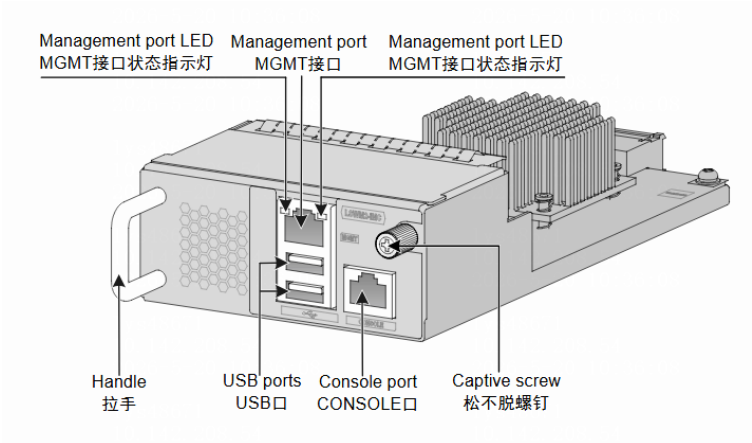
LSWM2-iMC

About LSWM2-iMC

The LSWM2-iMC intelligent network management module provides terminal admission network management for small and medium-sized campus networks. The module aims to provide network management solutions that integrate the terminal users, resources, and network services for network administrators.

Running on the intelligent management center (IMC) platform, the module can provide comprehensive management on terminal users by using Endpoint Intelligent Access (EIA) and Endpoint Admission Defense (EAD) security policy components. For more information about IMC, EIA, and EAD, see *H3C Intelligent Management Center Getting Started Guide*.

Figure6-2 LSWM2-iMC interface module



Ports and LEDs

For information about the ports and transceiver modules and cables available for the ports, see ["Ports on an LSWM2-iMC intelligent network management module."](#)

For information about the LEDs, see ["LEDs on an LSWM2-iMC intelligent network management module."](#)

Technical specifications

Table6-2 Technical specifications

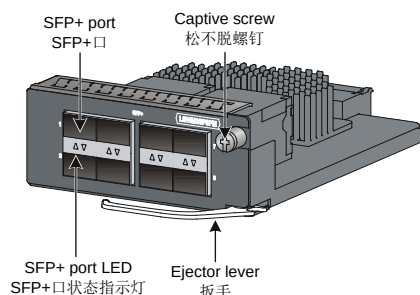
Item	Specification
Processor	Intel C3758, 2.2 GHz
DDR	16 GB DDR4
SSD	480 GB EMMC
Operating system	Linux
Ports	1 × management Ethernet port (MGMT) 1 × console port 2 × USB 3.0 ports
Dimensions (H × W × D)	41.1 × 95 × 197.5 mm (1.62 × 3.74 × 7.78 in)
Weight	0.5 kg (1.10 lb)
Power consumption (static)	16 W
Power consumption (with typical configuration)	N/A
Power consumption (fully configured)	33 W

LSWM2SP8P/LSWM2SP8PM

About LSWM2SP8P and LSWM2SP8PM

The LSWM2SP8PM and LSWM2SP8P interface cards each provide eight SFP+ ports. The SFP+ ports on the LSWM2SP8PM interface card support MACsec. The views of LSWM2SP8P and LSWM2SP8PM are the same. This figure uses the LSWM2SP8P as an example.

Figure6-3 LSWM2SP8P interface card view



Ports and LEDs

For information about the ports and transceiver modules and cables available for the ports, see "[SFP+ port](#)."

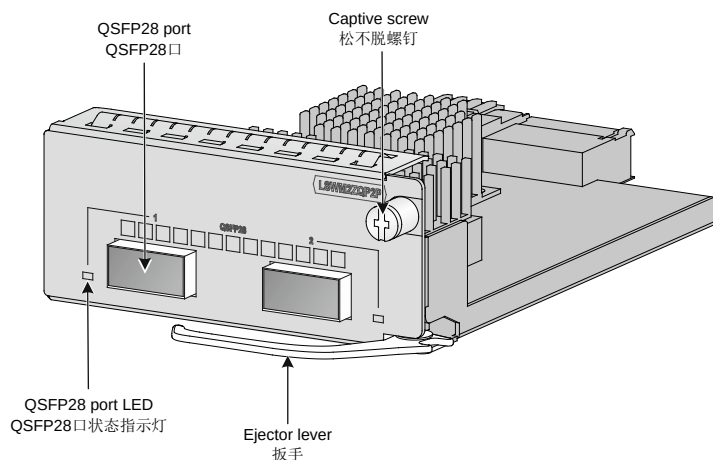
For information about the LEDs, see "[LEDs on an LSWM2SP8P/LSWM2SP8PM interface card](#)."

LSWM2ZQP2P

About LSWM2ZQP2P

The LSWM2ZQP2P interface module provides two QSFP28 ports.

Figure6-4 LSWM2ZQP2P interface module view



Ports and LEDs

For information about the ports and transceiver modules and cables available for the ports, see "[QSFP+ port](#)" and "[QSFP28 ports](#)."

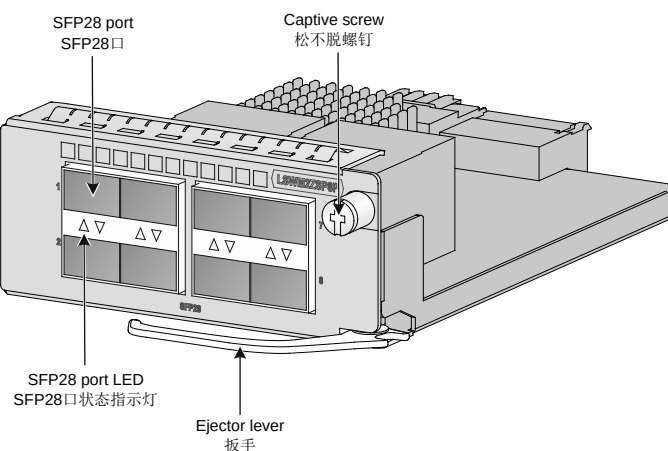
For information about the LEDs, see "[QSFP28 port LED](#)."

LSWM2ZSP8P

About LSWM2ZSP8P

The LSWM2ZSP8P interface module provides eight SFP28 ports.

Figure6-5 LSWM2ZSP8P interface module view



Ports and LEDs

For information about the ports and transceiver modules and cables available for the ports, see "[SFP+ port](#)" and "[SFP28 port](#)."

For information about the LEDs, see "[SFP28 port LED](#)."

NOTE:

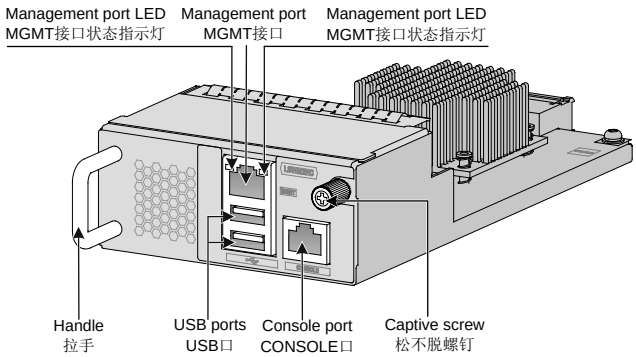
To use the LSWM2ZSP8P interface module, make sure the four lowest-numbered or four highest-numbered ports on the interface module have the same port rate and duplex mode.

LSWM2EC

About LSWM2EC

The LSWM2EC EPS scanner module scans network-wide endpoints as instructed by the EPS server for port type and operating system type automatically and sends scanning results to the EPS server. Upon receiving the port information, the EPS server provides a baseline management over the endpoints that access the network system. By using this module on a switch, you can save hardware resources, increase the number of endpoints that can be scanned, and perform incremental scanning.

Figure6-6 LSWM2EC EPS scanner module view



LEDs

For information about the management port LEDs, see "[LEDs on an LSWM2EC EPS scanner module](#)."

Technical specifications

Table6-3 Technical specifications

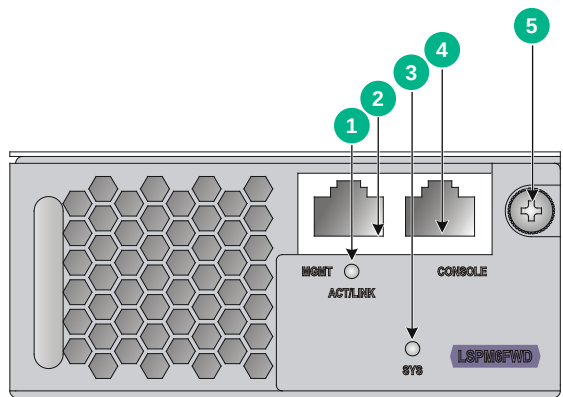
Item	Specification
Processor	Intel C3758, 2.2 GHz
DDR	8G DDR4
Flash	64GB EMMC
Operating system	Linux
Maximum number of endpoints that can be scanned	2500
Ports	1 × management Ethernet port (MGMT) 1 × console port 2 × USB 3.0 ports
Dimensions (H × W × D)	41.1 × 95 × 197.5 mm (1.62 × 3.74 × 7.78 in)
Weight	0.5 kg (1.10 lb)
Power consumption (static)	14 W
Power consumption (fully configured)	30 W

LSPM6FWD

About LSPM6FWD

The LSPM6FWD is a fourth-generation high performance firewall module. It provides features including firewall, VPN, content filtering, content identification, URL filtering, and NAT. By using this module on a switch, you can enhance the switch security capabilities without changing the network topology.

Figure6-7 LSPM6FWD front panel



(1) Management Ethernet port LED (ACT/LINK)	(2) 10/100/1000BASE-T management Ethernet port
(3) System status LED (SYS)	(4) Console port (CONSOLE)
(5) Captive screw	

Ports and LEDs

For information about the ports and transceiver modules and cables available for the ports, see ["Ports on an LSPM6FWD firewall module."](#)

For information about the LEDs, see ["LEDs on an LSPM6FWD firewall module."](#)

Technical specifications

Table6-4 Technical specifications

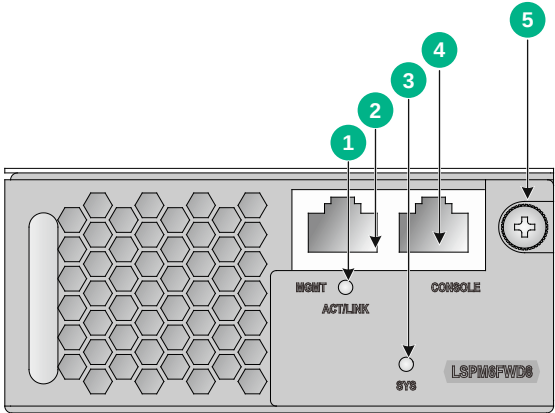
Item	Specification
Dimensions (H × W × D)	44.1 × 95 × 197.8 mm (1.74 × 3.74 × 7.79 in)
Weight	0.688 kg (1.52 lb)
Power consumption (static)	N/A
Power consumption (with typical configuration)	N/A
Power consumption (fully configured)	50 W

LSPM6FWD8

About LSPM6FWD8

The LSPM6FWD8 is a fourth-generation high performance firewall module. It provides features including firewall, VPN, content filtering, content identification, URL filtering, and NAT. By using this module on a switch, you can enhance the switch security capabilities without changing the network topology.

Figure6-8 Front panel



(1) Management Ethernet port LED (ACT/LINK)	(2) 10/100/1000BASE-T management Ethernet port
(3) System status LED (SYS)	(4) Console port (CONSOLE)
(5) Captive screw	

Ports and LEDs

For information about the ports and transceiver modules and cables available for the ports, see "[Ports on an LSPM6FWD8 firewall module.](#)"

For information about the LEDs, see "[LEDs on an LSPM6FWD8 firewall module.](#)"

Technical specifications

Table6-5 Technical specifications

Item	Specification
Dimensions (H × W × D)	44.1 × 95 × 197.8 mm (1.74 × 3.74 × 7.79 in)
Weight	0.688 kg (1.52 lb)
Power consumption (static)	N/A
Power consumption (with typical configuration)	N/A
Power consumption (fully configured)	30 W

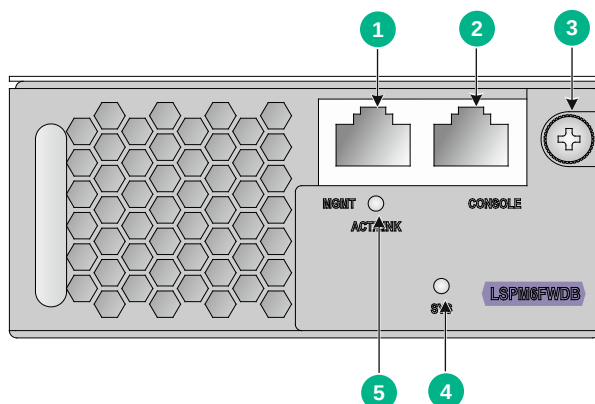
LSPM6FWDB

About LSPM6FWDB

The LSPM6FWDB is a fourth-generation high performance firewall module. It provides features including firewall, VPN, content filtering, content identification, URL filtering, and NAT. By using this module on a switch, you can enhance the switch security capabilities without changing the network topology.

The LSPM6FWDB firewall module provides one console port and one management Ethernet port.

Figure6-9 Front panel



(1) Management Ethernet port (MGMT)	(2) Console port (CONSOLE)
(3) Captive screw	(4) System status LED (SYS)
(5) Management Ethernet port LED (ACT/LINK)	

Ports and LEDs

For information about the ports and transceiver modules and cables available for the ports, see ["Ports on an LSPM6FWDB firewall module."](#)

For information about the LEDs, see ["LEDs on an LSPM6FWDB firewall module."](#)

Technical specifications

Table6-6 Technical specifications

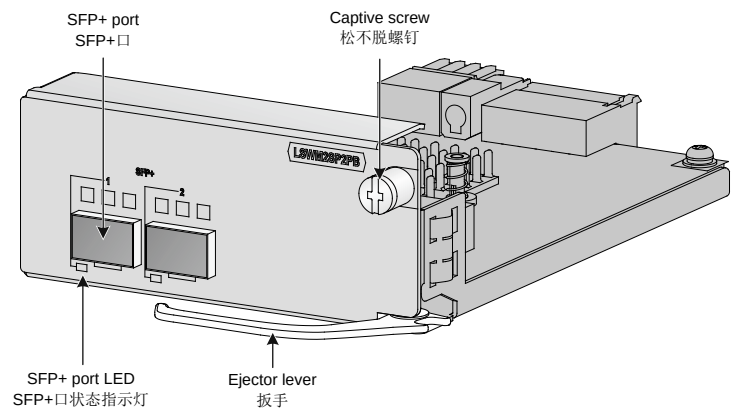
Item	Specification
Flash	8 MB
Micro SD card slot quantity and specification	One built-in Micro SD card slot Standard configuration: one 8 GB Micro SD card
Dimensions (H × W × D)	41.1 × 95 × 197.8 mm (1.62 × 3.74 × 7.79 in)
Max power consumption	50 W
Weight	0.69 kg (1.52 lb)
Hot swapping	Supported
Ports	1 × console port 1 × management Ethernet port
Temperature	- Operating: 5°C to 40°C (41°F to 104°F) - Storage: -40°C to +70°C (-40°F to +158°F)
Temperature change rate	- Operating: < 20°C (36°F)/h - Storage: < 30°C (54°F)/h
Humidity	- Operating: 10% RH to 80% RH, noncondensing - Storage: 5% RH to 90% RH, noncondensing

LSWM2SP2PB

About LSWM2SP2PB

The LSWM2SP2PB interface module provides two SFP+ ports.

Figure6-10 LSWM2SP2PB interface module view



Ports and LEDs

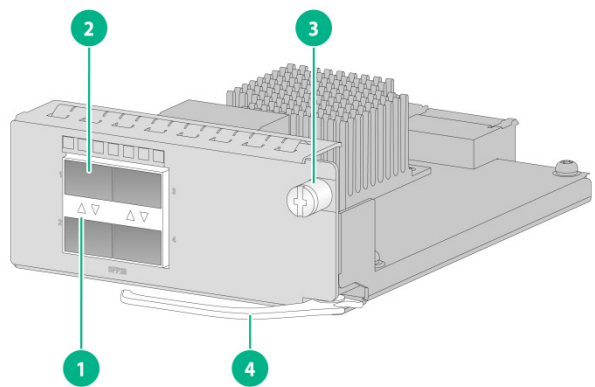
For information about the ports and transceiver modules and cables available for the ports, see "[SFP port](#)" and "[SFP+ port](#)."

LSWM2ZSP4P

About LSWM2ZSP4P

The LSWM2ZSP4P interface module provides four SFP28 ports.

Figure6-11 LSWM2ZSP4P interface module view



(1) SFP28 port LED	(2) SFP28 port
(3) Captive screw	(4) Ejector lever

Ports and LEDs

For information about the ports and transceiver modules and cables available for the ports, see "[SFP+ port](#)" and "[SFP28 port](#)."

For information about the LEDs, see "[SFP28 port LED](#)."

Technical specifications

Table6-7 Technical specifications

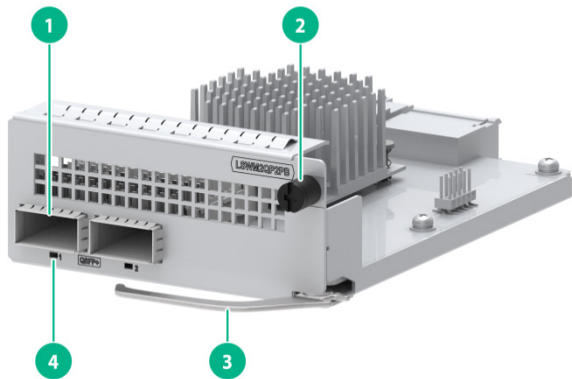
Item	Specification
Dimensions (H × W × D)	40.1 × 95.0 × 147.5 mm (1.58 × 3.74 × 5.81 in)
Weight	0.4 kg (0.88 lb)
Power consumption (static)	5.0 W
Power consumption (with typical configuration)	6.0 W
Power consumption (fully configured)	11.0 W

LSWM2QP2PB

About LSWM2QP2PB

The LSWM2QP2PB interface module provides two QSFP+ ports.

Figure6-12 LSWM2QP2PB interface module view



(1) QSFP+ port	(2) Captive screw
(3) Ejector lever	(4) QSFP+ port LED

Ports and LEDs

For information about the ports and transceiver modules and cables available for the ports, see ["QSFP+ port."](#)

Technical specifications

Table6-8 Technical specifications

Item	Specification
Dimensions (H × W × D)	40.1 × 95 × 147.5 mm (1.58 × 3.74 × 5.81 in)
Weight	0.4 kg (0.88 lb)
Power consumption (static)	9 W
Power consumption (with typical configuration)	10 W

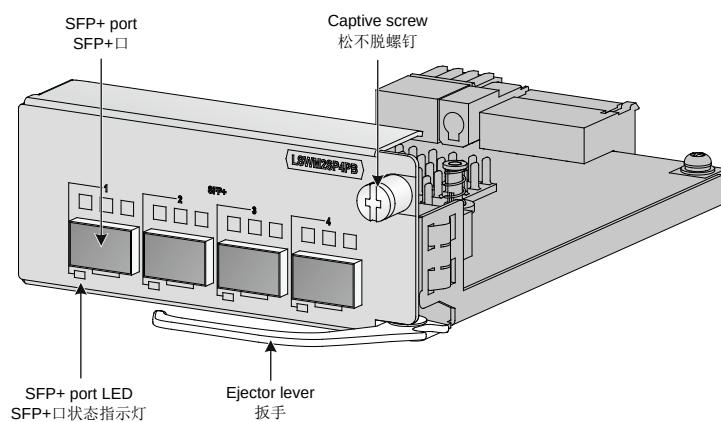
Item	Specification
Power consumption (fully configured)	14 W

LSWM2SP4PB

About LSWM2SP4PB

The LSWM2SP4PB interface module provides four SFP+ ports.

Figure6-13 LSWM2SP4PB interface module view



Ports and LEDs

For information about the ports and transceiver modules and cables available for the ports, see "[SFP port](#)" and "[SFP+ port](#)."

7 Ports and LEDs

Ports

Console port

Table7-1 Console port specifications

Item	Specification
Connector type	RJ-45
Compliant standard	EIA/TIA-232
Port transmission rate	9600 bps (default) to 115200 bps
Services	• Provides connection to an ASCII terminal • Provides connection to the serial port of a local PC running terminal emulation program
Compatible devices	All device models

Table7-2 Type-C USB console port specifications

Item	Specification
Connector type	USB Type-C
Compliant standard	USB2.0
Port transmission rate	9600 bps (default) to 115200 bps
Services	• Provides connection to an ASCII terminal • Provides connection to the serial port of a local PC running terminal emulation program
Compatible devices	• S5590-24UXMC-EI • S5590-8N24NS6X-EI • S5590-48NS6X-EI • S5590-16UN16UM4YC-EI • S5590-32UN4X4Y2CC-EI • S5590-32UN16UM4YC-EI • S5590-48UM4YC-EI • S5590-48UN4Y2CC-EI

Management Ethernet port

Table7-3 Management Ethernet port specifications

Item	Specification
Connector type	RJ-45
Port transmission rate	• 10 Mbps, full duplex • 100 Mbps, full duplex

Item	Specification
	1000 Mbps, full duplex - MDI/MDI-X autosensing
Transmission medium	Category-5 or above twisted pair cable
Max transmission distance	100 m (328.08 ft)
Compliant standard	IEEE 802.3i, 802.3u, and 802.3ab
Functions and services	Switch software and Boot ROM upgrade, network management
Compatible devices	All device models

USB port

Table7-4 USB port specifications

Item	Specification
Port type	USB 2.0
Compliant standard	OHCI
Port transmission rate	Uploads and downloads data at a rate up to 480 Mbps
Functions and services	Accesses the file system on the flash of the switch, for example, to upload or download application and configuration files
Compatible devices	All device models
File system type	Supports FAT16 and FAT32

NOTE:

USB devices from different vendors vary in compatibilities and drivers. H3C does not guarantee correct operation of USB devices from other vendors on the switch. If a USB device fails to operate on the switch, replace it with one from another vendor.

SFP port

Table7-5 SFP port specifications

Item	Specification
Port type	SFP port
Compatible transceiver modules and cables	- FE SFP transceiver modules in Table7-6 - GE SFP transceiver modules and cables in Table7-7
Compatible devices	All device models (excluding the S5590-48T4XC-HI, S5590-48T4XC-EI, and S5590-48P6XC-EI switches)
Restrictions and guidelines	- When you use the SFP-GE-T or SFP-GE-T-D copper transceiver module, the interfaces can operate only at 1000 Mbps. - Only the S5590-28T8XC-EI (LS-5590-28T8XC-EI-GL and LS-5590-28T8XC-EI-H3) switch supports the SFP-FE-BX15-U-SM1310 transceiver module. - The S5590-28T8XC-EI (LS-5590-28T8XC-EI-GL and LS-5590-28T8XC-EI-H3) and S5590-48T4XC-EI (LS-5590-48T4XC-EI-GL and LS-5590-48T4XC-EI-H3) switches do not support the

Item	Specification
	SFP-FE-LX-SM1310-D, SFP-FE-LX-SM1310-BIDI, and SFP-GE-SX-MM850-D transceiver modules. - The S5590-24X4YC-EI (LS-5590-24X4YC-EI), S5590-24UXM4YC-EI, and S5590-48UXM4YC-EI switches do not support FE SFP transceiver modules. - The S5590-48TS4X2QC-EI (LS-5590-48TS4X2QC-EI) switch does not support the SFP-FE-LX-SM1310-D and SFP-GE-SX-MM850-D transceiver modules. - The S5590-24UXMC-EI (LS-5590-24UXMC-EI) switch does not support FE SFP transceiver modules. - When an SFP port is installed with a copper transceiver module, it cannot operate in half duplex mode,

Table7-6 FE SFP transceiver modules available for the SFP ports

FE SFP transceiver module	Central wavelength (nm)	Connector	Fiber diameter (μm)	Max transmission distance
SFP-FE-SX-MM1310-A	1310	LC	Multi-mode, 50/125	2 km (1.24 miles)
			Multi-mode, 62.5/125	
SFP-FE-LX-SM1310-A	1310	LC	Single-mode, 9/125	15 km (9.32 miles)
SFP-FE-LX-SM1310-D	1310	LC	Single-mode, 9/125	15 km (9.32 miles)
SFP-FE-BX15-U-SM1310	1310	LC	Single-mode, 9/125	15 km (9.32 miles)
SFP-FE-LH40-SM1310	1310	LC	Single-mode, 9/125	40 km (24.86 miles)
SFP-FE-LH80-SM1550	1550	LC	Single-mode, 9/125	80 km (49.71 miles)
SFP-FE-LX-SM1310-BIDI	TX: 1310 RX: 1550	LC	Single-mode, 9/125	15 km (9.32 miles)
SFP-FE-LX-SM1550-BIDI	TX: 1550 RX: 1310	LC	Single-mode, 9/125	15 km (9.32 miles)



IMPORTANT:

The SFP-FE-LX-SM1310-BIDI and SFP-FE-LX-SM1550-BIDI transceiver modules must be used in pairs. For example, if one end uses the SFP-FE-LX-SM1310-BIDI transceiver module, the other end must use the SFP-FE-LX-SM1550-BIDI transceiver module.

Table7-7 GE SFP transceiver modules and cables available for the SFP ports

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP copper transceiver modules					
SFP-GE-T	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)
SFP-GE-T-D	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP optical transceiver modules					
SFP-GE-SX-M M850-A	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-SX-M M850-D	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-LX-SM 1310-A	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
			Multi-mode, 50/125	500 or 400	550 m (1804.46 ft)
			Multi-mode, 62.5/125	500	550 m (1804.46 ft)
SFP-GE-LX10-SM1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH20-SM1310-I	1310	LC	Single-mode, 9/125	N/A	20 km (12.43 miles)
SFP-GE-LH40-SM1310-I	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1310	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1310-D	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1550	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH80-SM1550	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-GE-LH80-SM1550-D	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-GE-LH100-SM1550	1550	LC	Single-mode, 9/125	N/A	100 km (62.14 miles)
SFP-GE-LX-SM 1310-BIDI	TX: 1310 RX: 1490	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM 1490-BIDI	TX: 1490 RX: 1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH70-SM1490-BIDI	TX: 1490 RX: 1550	LC	Single-mode, 9/125	N/A	70 km (43.50 miles)
SFP-GE-LH70-	TX: 1550	LC	Single-mode,	N/A	70 km (43.50

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SM1550-BIDI	RX: 1490		9/125		miles)
SFP-GE-LH40-SM1310-BIDI	TX: 1310 RX: 1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1550-BIDI	TX: 1550 RX: 1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP cable					
SFP-STACK-Kit	N/A	N/A	SFP cable	N/A	1.5 m (4.92 ft)

! IMPORTANT:

The SFP-GE-LX-SM1310-BIDI and SFP-GE-LX-SM1490-BIDI transceiver modules, SFP-GE-LH70-SM1550-BIDI and SFP-GE-LH70-SM1490-BIDI transceiver modules, and SFP-GE-LH40-SM1310-BIDI and SFP-GE-LH40-SM1550-BIDI transceiver modules must be used in pairs. For example, if one end uses the SFP-GE-LX-SM1310-BIDI transceiver module, the other end must use the SFP-GE-LX-SM1490-BIDI transceiver module.

NOTE:

- As a best practice, use H3C transceiver modules and network cables for the switch.
- The H3C transceiver modules and network cables are subject to change over time. For the most recent list of H3C transceiver modules and cables, contact H3C Support or marketing staff.
- For the specifications of H3C transceiver modules and network cables, see *H3C Transceiver Modules User Guide*.

2.5G SFP port

Table7-8 2.5G SFP port specifications

Item	Specification
Port type	2.5G SFP port
Compatible transceiver modules and cables	• FE SFP transceiver modules in Table7-9 • GE SFP transceiver modules and cables in Table7-10 • 2.5G SFP transceiver modules in Table7-11
Compatible devices	• S5590-8N24NS6X-EI • S5590-48NS6X-EI

Table7-9 FE SFP transceiver modules available for the 2.5G SFP ports

FE SFP transceiver module	Central wavelength (nm)	Connector	Fiber diameter (μm)	Max transmission distance
SFP-FE-SX-MM1310-A	1310	LC	Multi-mode, 50/125	2 km (1.24 miles)
			Multi-mode, 62.5/125	
SFP-FE-LX-SM1310-A	1310	LC	Single-mode, 9/125	15 km (9.32 miles)

FE SFP transceiver module	Central wavelength (nm)	Connector	Fiber diameter (μm)	Max transmission distance
SFP-FE-LX-SM1310-D	1310	LC	Single-mode, 9/125	15 km (9.32 miles)
SFP-FE-LH80-SM1550	1550	LC	Single-mode, 9/125	80 km (49.71 miles)
SFP-FE-LX-SM1310-BIDI	TX: 1310 RX: 1550	LC	Single-mode, 9/125	15 km (9.32 miles)
SFP-FE-LX-SM1550-BIDI	TX: 1550 RX: 1310			



IMPORTANT:

The SFP-FE-LX-SM1310-BIDI and SFP-FE-LX-SM1550-BIDI transceiver modules must be used in pairs. For example, if one end uses the SFP-FE-LX-SM1310-BIDI transceiver module, the other end must use the SFP-FE-LX-SM1550-BIDI transceiver module.

Table7-10 GE SFP transceiver modules and cables available for the 2.5G SFP ports

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP transceiver modules					
SFP-GE-T	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)
SFP-GE-T-D	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)
SFP-GE-T-S	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)
SFP-GE-LX-SM 1310-F	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-SX-M M850-A	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-SX-M M850-D	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-SX-M M850-S	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-LX-SM	1310	LC	Single-mode,	N/A	10 km (6.21 miles)

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
1310-A			9/125		
			Multi-mode, 50/125	500 or 400	550 m (1804.46 ft)
			Multi-mode, 62.5/125	500	550 m (1804.46 ft)
SFP-GE-LX-SM 1310-D	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM 1310-S	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH40-SM1310-S	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1310	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1310-D	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1550	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH80-SM1550	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-GE-LH80-SM1550-D	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-GE-LH100-SM1550	1550	LC	Single-mode, 9/125	N/A	100 km (62.14 miles)
SFP-GE-LX10-SM1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH40-SM1310-I	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH20-SM1310-I	1310	LC	Single-mode, 9/125	N/A	20 km (12.43 miles)
SFP-GE-LX-SM 1310-BIDI	TX: 1310 RX: 1490	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM 1490-BIDI	TX: 1490 RX: 1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM 1310-BIDI-S	TX: 1310 RX: 1490	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM 1490-BIDI-S	TX: 1490 RX: 1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM 1310-BIDI-I	TX: 1310 RX: 1490	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM 1490-BIDI-I	TX: 1490 RX: 1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH40-	TX: 1310	LC	Single-mode,	N/A	40 km (24.86

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SM1310-BIDI	RX: 1550		9/125		miles)
SFP-GE-LH40-SM1550-BIDI	TX: 1550 RX: 1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH70-SM1490-BIDI	TX: 1490 RX: 1550	LC	Single-mode, 9/125	N/A	70 km (43.50 miles)
SFP-GE-LH70-SM1550-BIDI	TX: 1550 RX: 1490	LC	Single-mode, 9/125	N/A	70 km (43.50 miles)
SFP cables					
SFP-STACK-Kit	N/A	N/A	SFP cable	N/A	1.5 m (4.92 ft)
SFP-STACK-Kit -S	N/A	N/A	SFP cable	N/A	1.5 m (4.92 ft)



IMPORTANT:

The SFP-GE-LX-SM1310-BIDI and SFP-GE-LX-SM1490-BIDI transceiver modules, SFP-GE-LX-SM1310-BIDI-S and SFP-GE-LX-SM1490-BIDI-S transceiver modules, SFP-GE-LX-SM1310-BIDI-I and SFP-GE-LX-SM1490-BIDI-I transceiver modules, SFP-GE-LH40-SM1310-BIDI and SFP-GE-LH40-SM1550-BIDI transceiver modules, and SFP-GE-LH70-SM1550-BIDI and SFP-GE-LH70-SM1490-BIDI transceiver modules must be used in pairs. For example, if one end uses the SFP-GE-LX-SM1310-BIDI transceiver module, the other end must use the SFP-GE-LX-SM1490-BIDI transceiver module.

Table7-11 2.5G SFP transceiver modules available for the 2.5G SFP ports

2.5G SFP transceiver module	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-2.5G-LX10-SM1310-DR-I-F	1310	PoDLC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-2.5G-LX10-SM1310-DR-I	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)

SFP+ port

Table7-12 SFP+ port specifications

Item	Specification
Port type	SFP+ port
Compatible transceiver modules and cables	For the SFP+ ports on all S5590-HI switches, S5590-EI switches (except for the S5590-8N24NS6X-EI, S5590-48NS6X-EI, S5590-16UN16UM4YC-EI, S5590-32UN4X4Y2CC-EI, S5590-32UN16UM4YC-EI, S5590-48UM4YC-EI, and S5590-48UN4Y2CC-EI), and the LSWM2SP8P, LSWM2SP2PB, and LSWM2SP4PB expansion cards that are compatible with these switch models:

Item	Specification
	10GE SFP+ transceiver modules and cables in Table7-13 - GE SFP transceiver modules and cables in Table7-16 - For the SFP+ ports on the S5590-8N24NS6X-EI, S5590-48NS6X-EI, and S5590-32UN4X4Y2CC-EI switches and the LSWM2SP8P expansion card that is compatible with these switch models: 10GE SFP+ transceiver modules and cables in Table7-14 2.5 GE SFP transceiver modules in Table7-15 - GE SFP transceiver modules and cables in Table7-17
Compatible devices	All S5590-HI switches, S5590-EI switches (except for the S5590-16UN16UM4YC-EI, S5590-32UN16UM4YC-EI, S5590-48UM4YC-EI, and S5590-48UN4Y2CC-EI), and the LSWM2SP8P, LSWM2SP2PB, and LSWM2SP4PB expansion cards
Restrictions and guidelines	- The S5590-28T8XC-EI (LS-5590-28T8XC-EI-GL and LS-5590-28T8XC-EI-H3) and S5590-48T4XC-EI (LS-5590-48T4XC-EI-GL and LS-5590-48T4XC-EI-H3) switches do not support the SFP-XG-SX-MM850-A and SFP-XG-LX-SM1310-E transceiver modules. - The S5590-24X4YC-EI, S5590-48TS4X2QC-EI, S5590-24UXM4YC-EI, and S5590-48UXM4YC-EI switches do not support the SFP-XG-SX-MM850-A, SFP-XG-LX-SM1310-E, and SFP-XG-LH80-Tunable transceiver modules. - When an SFP+ port is installed with a copper transceiver module, it cannot operate in half duplex mode.

Table7-13 10GE SFP+ transceiver modules and cables available for the SFP+ ports (1)

10GE SFP+ transceiver module/cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP+ transceiver modules					
SFP-XG-SX-M M850-A	850	LC	Multi-mode, 50/125	2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)
SFP-XG-SX-M M850-D	850	LC	Multi-mode, 50/125	2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)
SFP-XG-LX-SM 1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM 1310-D	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM 1310-E	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LH40-	1550	LC	Single-mode,	N/A	40 km (24.86 miles)

10GE SFP+ transceiver module/cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SM1550			9/125		
SFP-XG-LH40-SM1550-D	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH80-SM1550	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LH80-SM1550-D	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-CPRI-I R-SM1310	1310	LC	Single-mode, 9/125	N/A	1.4 km (0.87 miles)
SFP-XG-CPRI-LR-SM1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LH80-Tunable	1547.75	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LX-SM 1270-BIDI	TX: 1270 RX: 1330	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM 1330-BIDI	TX: 1330 RX: 1270	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LH40-SM1270-BIDI	TX: 1270 RX: 1330	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH40-SM1330-BIDI	TX: 1330 RX: 1270	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH80-SM1490-BIDI	TX: 1490 RX: 1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LH80-SM1550-BIDI	TX: 1550 RX: 1490	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP+ copper cables					
LSWM1STK	N/A	N/A	SFP+ copper cable	N/A	0.65 m (2.13 ft)
LSWM2STK	N/A	N/A	SFP+ copper cable	N/A	1.2 m (3.94 ft)
LSWM3STK	N/A	N/A	SFP+ copper cable	N/A	3 m (9.84 ft)
LSTM1STK	N/A	N/A	SFP+ copper cable	N/A	5 m (16.40 ft)
SFP+ fiber cables					
SFP-XG-D-AO C-7M	N/A	N/A	SFP+ fiber cable	N/A	7 m (22.97 ft)
SFP-XG-D-AO C-10M	N/A	N/A	SFP+ fiber cable	N/A	10 m (32.81 ft)
SFP-XG-D-AO C-20M	N/A	N/A	SFP+ fiber cable	N/A	20 m (65.62 ft)

**IMPORTANT:**

The SFP-XG-LX-SM1270-BIDI and SFP-XG-LX-SM1330-BIDI transceiver modules, SFP-XG-LH40-SM1270-BIDI and SFP-XG-LH40-SM1330-BIDI transceiver modules, and SFP-XG-LH80-SM1490-BIDI and SFP-XG-LH80-SM1550-BIDI transceiver modules must be used in pairs. For example, if one end uses an SFP-XG-LX-SM1270-BIDI transceiver module, the other end must use an SFP-XG-LX-SM1330-BIDI transceiver module.

Table7-14 10GE SFP+ transceiver modules and cables available for the SFP+ ports (2)

10GE SFP transceiver module/cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP+ transceiver modules					
SFP-10GE-T	N/A	RJ-45	Category-6A shielded twisted pair cable/Category-7 twisted pair cable	N/A	30 m (98.43 ft)
			Category-5e twisted pair cable	N/A	100 m (328.08 ft)
SFP-XG-SX-M M850-A	850	LC	Multi-mode, 50/125	4700	400 m (1312.34 ft)
				2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)
SFP-XG-SX-M M850-D	850	LC	Multi-mode, 50/125	2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
				200	33 m (108.27 ft)
			Multi-mode, 62.5/125	160	26 m (85.30 ft)
				160	26 m (85.30 ft)
SFP-XG-SX-M M850-E	850	LC	Multi-mode, 50/125	4700	400 m (1312.34 ft)
				2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)
SFP-XG-SX-M M850-H	850	LC	Multi-mode, 50/125	4700	400 m (1312.34 ft)
				2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)

10GE SFP transceiver module/cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-XG-SX-M M850-S	850	LC	Multi-mode, 50/125	4700	400 m (1312.34 ft)
				2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)
SFP-XG-LX-SM 1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM 1310-D	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM 1310-E	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM 1310-F	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM 1310-S	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LH40-SM1550	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH40-SM1550-D	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH40-SM1550-S	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH80-SM1550	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LH80-SM1550-D	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LX-SM 1270-BIDI	TX: 1270 RX: 1330	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM 1330-BIDI	TX: 1330 RX: 1270	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM 1270-BIDI-S	TX: 1270 RX: 1330	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM 1330-BIDI-S	TX: 1330 RX: 1270	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LH40-SM1270-BIDI	TX: 1270 RX: 1330	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH40-SM1330-BIDI	TX: 1330 RX: 1270	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH80-SM1490-BIDI	TX: 1490 RX: 1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LH80-	TX: 1550	LC	Single-mode,	N/A	80 km (49.71

10GE SFP transceiver module/cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SM1550-BIDI	RX: 1490		9/125		miles)
SFP+ cables					
LSWM1STK	N/A	N/A	SFP+ copper cable	N/A	0.65 m (2.13 ft)
LSWM2STK	N/A	N/A			1.2 m (3.94 ft)
LSWM3STK	N/A	N/A			3 m (9.84 ft)
LSTM1STK	N/A	N/A			5 m (16.40 ft)
SFP-10G-D-CA B-5M-S	N/A	N/A			5 m (16.40 ft)
SFP-XG-D-AO C-7M	N/A	N/A	SFP+ fiber cable	N/A	7 m (22.97 ft)
SFP-XG-D-AO C-7M-H	N/A	N/A			7 m (22.97 ft)
SFP-XG-D-AO C-10M	N/A	N/A			10 m (32.81 ft)
SFP-XG-D-AO C-10M-H	N/A	N/A			10 m (32.81 ft)
SFP-XG-D-AO C-20M	N/A	N/A			20 m (65.62 ft)
SFP-XG-D-AO C-20M-H	N/A	N/A			20 m (65.62 ft)



IMPORTANT:

The SFP-XG-LX-SM1270-BIDI and SFP-XG-LX-SM1330-BIDI transceiver modules, SFP-XG-LX-SM1270-BIDI-S and SFP-XG-LX-SM1330-BIDI-S transceiver modules, SFP-XG-LH40-SM1270-BIDI and SFP-XG-LH40-SM1330-BIDI transceiver modules, and SFP-XG-LH80-SM1490-BIDI and SFP-XG-LH80-SM1550-BIDI transceiver modules must be used in pairs. For example, if one end uses the SFP-XG-LX-SM1270-BIDI transceiver module, the other end must use the SFP-XG-LX-SM1330-BIDI transceiver module.

Table7-15 2.5G SFP transceiver modules available for the SFP+ ports

2.5G SFP transceiver module	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-2.5G-LX10 -SM1310-DR-I-F	1310	PoDLC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-2.5G-LX10 -SM1310-DR-I	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)

Table7-16 GE SFP transceiver modules and cables available for the SFP+ ports (1)

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP copper transceiver modules					
SFP-GE-T	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)
SFP-GE-T-D	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)
SFP optical transceiver modules					
SFP-GE-SX-M M850-A	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-SX-M M850-D	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-LX-SM 1310-A	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
			Multi-mode, 50/125	500 or 400	550 m (1804.46 ft)
			Multi-mode, 62.5/125	500	550 m (1804.46 ft)
SFP-GE-LX10-SM1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH20-SM1310-I	1310	LC	Single-mode, 9/125	N/A	20 km (12.43 miles)
SFP-GE-LH40-SM1310-I	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1310	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1310-D	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1550	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH80-SM1550	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-GE-LH80-SM1550-D	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-GE-LH100-SM1550	1550	LC	Single-mode, 9/125	N/A	100 km (62.14 miles)
SFP-GE-LX-SM	TX: 1310	LC	Single-mode,	N/A	10 km (6.21 miles)

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
1310-BIDI	RX: 1490		9/125		
SFP-GE-LX-SM 1490-BIDI	TX: 1490 RX: 1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH70-SM1490-BIDI	TX: 1490 RX: 1550	LC	Single-mode, 9/125	N/A	70 km (43.50 miles)
SFP-GE-LH70-SM1550-BIDI	TX: 1550 RX: 1490	LC	Single-mode, 9/125	N/A	70 km (43.50 miles)
SFP-GE-LH40-SM1310-BIDI	TX: 1310 RX: 1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1550-BIDI	TX: 1550 RX: 1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP copper cable					
SFP-STACK-Kit	N/A	N/A	SFP copper cable	N/A	1.5 m (4.92 ft)



IMPORTANT:

The SFP-GE-LX-SM1310-BIDI and SFP-GE-LX-SM1490-BIDI transceiver modules, SFP-GE-LH70-SM1550-BIDI and SFP-GE-LH70-SM1490-BIDI transceiver modules, and SFP-GE-LH40-SM1310-BIDI and SFP-GE-LH40-SM1550-BIDI transceiver modules must be used in pairs. For example, if one end uses the SFP-GE-LX-SM1310-BIDI transceiver module, the other end must use the SFP-GE-LX-SM1490-BIDI transceiver module.

Table7-17 GE SFP transceiver modules and cables available for the SFP+ ports (2)

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP transceiver modules					
SFP-GE-T	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)
SFP-GE-T-D	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)
SFP-GE-T-S	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)
SFP-GE-LX-SM 1310-F	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-SX-M M850-A	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-GE-SX-M M850-D	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-SX-M M850-S	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-LX-SM 1310-A	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
			Multi-mode, 50/125	500 or 400	550 m (1804.46 ft)
			Multi-mode, 62.5/125	500	550 m (1804.46 ft)
SFP-GE-LX-SM 1310-D	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM 1310-S	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH40-SM1310-S	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1310	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1310-D	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1550	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH80-SM1550	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-GE-LH80-SM1550-D	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-GE-LH100-SM1550	1550	LC	Single-mode, 9/125	N/A	100 km (62.14 miles)
SFP-GE-LX10-SM1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH40-SM1310-I	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH20-SM1310-I	1310	LC	Single-mode, 9/125	N/A	20 km (12.43 miles)
SFP-GE-LX-SM 1310-BIDI	TX: 1310 RX: 1490	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM	TX: 1490	LC	Single-mode,	N/A	10 km (6.21 miles)

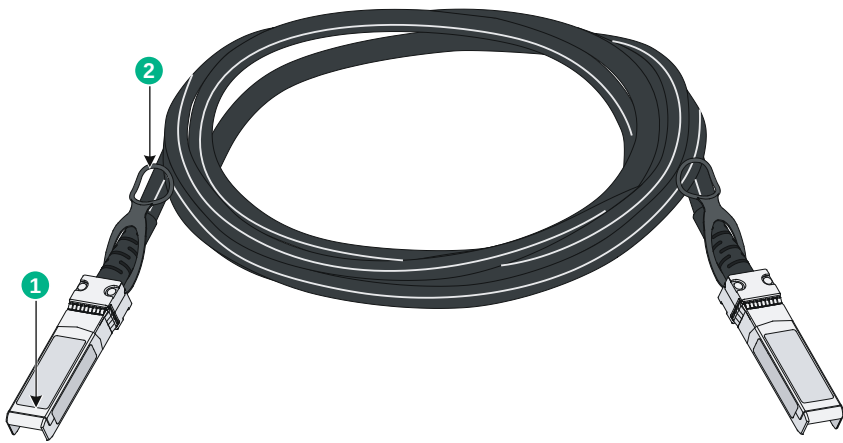
GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
1490-BIDI	RX: 1310		9/125		
SFP-GE-LX-SM1310-BIDI-S	TX: 1310 RX: 1490	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM1490-BIDI-S	TX: 1490 RX: 1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM1310-BIDI-I	TX: 1310 RX: 1490	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM1490-BIDI-I	TX: 1490 RX: 1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH40-SM1310-BIDI	TX: 1310 RX: 1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1550-BIDI	TX: 1550 RX: 1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH70-SM1490-BIDI	TX: 1490 RX: 1550	LC	Single-mode, 9/125	N/A	70 km (43.50 miles)
SFP-GE-LH70-SM1550-BIDI	TX: 1550 RX: 1490	LC	Single-mode, 9/125	N/A	70 km (43.50 miles)
SFP copper cable					
SFP-STACK-Kit	N/A	N/A	SFP copper cable	N/A	1.5 m (4.92 ft)
SFP-STACK-Kit-S	N/A	N/A	SFP copper cable	N/A	1.5 m (4.92 ft)



IMPORTANT:

The SFP-GE-LX-SM1310-BIDI and SFP-GE-LX-SM1490-BIDI transceiver modules, SFP-GE-LX-SM1310-BIDI-S and SFP-GE-LX-SM1490-BIDI-S transceiver modules, SFP-GE-LX-SM1310-BIDI-I and SFP-GE-LX-SM1490-BIDI-I transceiver modules, SFP-GE-LH70-SM1550-BIDI and SFP-GE-LH70-SM1490-BIDI transceiver modules, and SFP-GE-LH40-SM1310-BIDI and SFP-GE-LH40-SM1550-BIDI transceiver modules must be used in pairs. For example, if one end uses the SFP-GE-LX-SM1310-BIDI transceiver module, the other end must use the SFP-GE-LX-SM1490-BIDI transceiver module.

Figure7-1 SFP+ cable



(1) Connector

(2) Pull latch

NOTE:

- As a best practice, use H3C transceiver modules and network cables for the switch.
- The H3C transceiver modules and network cables are subject to change over time. For the most recent list of H3C transceiver modules and cables, contact H3C Support or marketing staff.
- For the specifications of H3C transceiver modules and network cables, see *H3C Transceiver Modules User Guide*.

SFP28 port

Table7-18 SFP28 port specifications

Item	Specification
Port type	SFP28 port
Compatible transceiver modules and cables	• For the SFP28 ports on the LSWM2ZSP8P interface module and the S5590-24X4YC-EI, S5590-24UXM4YC-EI, and S5590-48UXM4YC-EI switches: ◦ SFP28 transceiver modules and cables in Table7-19 and Table7-20 ◦ SFP+ transceiver modules and cables in Table7-24, Table7-25, and Table7-26 • For the SFP28 ports on the S5590-16UN16UM4YC-EI, S5590-32UN4X4Y2CC-EI, S5590-32UN16UM4YC-EI, S5590-48UM4YC-EI, and S5590-48UN4Y2CC-EI switches: ◦ SFP28 transceiver modules and cables in Table7-21, Table7-22, and Table7-23 ◦ SFP+ transceiver modules and cables in Table7-27, Table7-28, and Table7-29 ◦ 2.5G SFP transceiver modules in Table7-30 ◦ GE SFP transceiver modules and cables in Table7-31
Compatible devices	• S5590-24X4YC-EI • S5590-24UXM4YC-EI • S5590-48UXM4YC-EI • LSWM2ZSP8P expansion card • S5590-16UN16UM4YC-EI

Item	Specification
	- S5590-32UN4X4Y2CC-EI - S5590-32UN16UM4YC-EI - S5590-48UM4YC-EI - S5590-48UN4Y2CC-EI
Restrictions and guidelines	After you install an LSWM2ZSP4P interface module on a switch, you cannot directly connect an SFP28 port on the interface module to an SFP28 port on the S5590-48UM4YC-EI switch by using an SFP28 cable.

Table7-19 SFP28 transceiver modules available for the SFP28 ports (1)

SFP28 transceiver module	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-25G-SR-M M850	850	LC	Multi-mode, 50/125	2000	70 m (229.66 ft)
				4700	100 m (328.08 ft)
SFP-25G-SR-M M850-H	850	LC	Multi-mode, 50/125	2000	70 m (229.66 ft)
				4700	100 m (328.08 ft)
SFP-25G-CSR-MM850	850	LC	Multi-mode, 50/125	2000	200 m (656.17 ft)
				>3500	300 m (984.25 ft)
				>5500	400 m (1312.34 ft)
SFP-25G-LR-S M1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-25G-LR-S M1310-I	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)

Table7-20 SFP28 cables available for the SFP28 ports (1)

SFP28 cable	Max transmission distance
SFP-25G-D-CAB-1M	1 m (3.28 ft)
SFP-25G-D-CAB-3M	3 m (9.84 ft)
SFP-25G-D-CAB-5M	5 m (16.40 ft)
SFP-25G-D-AOC-3M	3 m (9.84 ft)
SFP-25G-D-CAB-4M-A	4 m (13.12 ft)
SFP-25G-D-AOC-5M	5 m (16.40 ft)
SFP-25G-D-AOC-7M	7 m (22.97 ft)
SFP-25G-D-AOC-10M	10 m (32.81 ft)
SFP-25G-D-AOC-20M	20 m (65.62 ft)

Table7-21 SFP28 transceiver modules available for the SFP28 ports (2)

SFP28 transceiver module	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-25G-SR-MM850	850	LC	Multi-mode, 50/125	2000	70 m (229.66 ft)
				4700	100 m (328.08 ft)
SFP-25G-SR-MM850-H	850	LC	Multi-mode, 50/125	2000	70 m (229.66 ft)
				4700	100 m (328.08 ft)
SFP-25G-LR-SM1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-25G-LR-SM1310-I	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-25G-LR-SM1310-F	1310	PoDLC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-25G-CS R-MM850	850	LC	Multi-mode, 50/125	2000	200 m (656.17 ft)
				> 3500	300 m (984.25 ft)
				> 5500	400 m (1312.34 ft)

Table7-22 SFP28 copper cables available for the SFP28 ports (2)

SFP28 copper cable	Max transmission distance
SFP-25G-D-CAB-1M SFP-25G-D-CAB-1M-A	1 m (3.28 ft)
SFP-25G-D-CAB-2M-A	2 m (6.56 ft)
SFP-25G-D-CAB-3M SFP-25G-D-CAB-3M-A	3 m (9.84 ft)
SFP-25G-D-CAB-4M-A	4 m (13.12 ft)
SFP-25G-D-CAB-5M SFP-25G-D-CAB-5M-A	5 m (16.40 ft)

Table7-23 SFP28 fiber cables available for the SFP28 ports (2)

SFP28 fiber cable	Max transmission distance
SFP-25G-D-AOC-3M	3 m (9.84 ft)
SFP-25G-D-AOC-5M SFP-25G-D-AOC-5M-DG	5 m (16.40 ft)

SFP28 fiber cable	Max transmission distance
SFP-25G-D-AOC-5M-H	
SFP-25G-D-AOC-7M SFP-25G-D-AOC-7M-DG SFP-25G-D-AOC-7M-H	7 m (22.97 ft)
SFP-25G-D-AOC-10M SFP-25G-D-AOC-10M-DG SFP-25G-D-AOC-10M-H	10 m (32.81 ft)
SFP-25G-D-AOC-20M SFP-25G-D-AOC-20M-DG SFP-25G-D-AOC-20M-H	20 m (65.62 ft)

Table7-24 10GE SFP+ transceiver modules available for the SFP28 ports (1)

10GE SFP+ transceiver module	Central wavelength (nm)	Connector	Fiber diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-XG-SX-M M850-A	850	LC	Multi-mode, 50/125	2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)
SFP-XG-SX-M M850-D	850	LC	Multi-mode, 50/125	2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)
SFP-XG-LX-S M1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-S M1310-D	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-S M1310-E	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LH40 -SM1550	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH40 -SM1550-D	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH80 -SM1550	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LH80 -SM1550-D	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-CPRI -IR-SM1310	1310	LC	Single-mode, 9/125	N/A	1.4 km (0.87 miles)
SFP-XG-CPRI	1310	LC	Single-mode,	N/A	10 km (6.21 miles)

10GE SFP+ transceiver module	Central wavelength (nm)	Connector	Fiber diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
-LR-SM1310			9/125		
SFP-XG-LH80-Tunable	1547.75	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LX-SM1270-BIDI	TX: 1270 RX: 1330	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM1330-BIDI	TX: 1330 RX: 1270	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LH40-SM1270-BIDI	TX: 1270 RX: 1330	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH40-SM1330-BIDI	TX: 1330 RX: 1270	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH80-SM1490-BIDI	TX: 1490 RX: 1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LH80-SM1550-BIDI	TX: 1550 RX: 1490	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)



IMPORTANT:

The SFP-XG-LX-SM1270-BIDI and SFP-XG-LX-SM1330-BIDI transceiver modules, SFP-XG-LH40-SM1270-BIDI and SFP-XG-LH40-SM1330-BIDI transceiver modules, and SFP-XG-LH80-SM1490-BIDI and SFP-XG-LH80-SM1550-BIDI transceiver modules must be used in pairs. For example, if one end uses an SFP-XG-LX-SM1270-BIDI transceiver module, the other end must use an SFP-XG-LX-SM1330-BIDI transceiver module.

Table7-25 SFP+ copper cables available for the SFP28 ports (1)

SFP+ copper cable	Max transmission distance
LSWM1STK	0.65 m (2.13 ft)
LSWM2STK	1.2 m (3.94 ft)
LSWM3STK	3 m (9.84 ft)
LSTM1STK	5 m (16.40 ft)

Table7-26 SFP+ fiber cables available for the SFP28 ports (1)

SFP+ fiber cable	Max transmission distance
SFP-XG-D-AOC-7M	7 m (22.97 ft)
SFP-XG-D-AOC-10M	10 m (32.81 ft)
SFP-XG-D-AOC-20M	20 m (65.62 ft)

Table7-27 10GE SFP+ transceiver modules available for the SFP28 ports (2)

10GE SFP+ transceiver module	Central wavelength (nm)	Connector	Fiber diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-10GE-T	N/A	RJ-45	Category-6A shielded twisted pair cable/Categor y-7 twisted pair cable	N/A	30 m (98.43 ft)
			Category-5e twisted pair cable	N/A	100 m (328.08 ft)
SFP-XG-SX-M M850-A	850	LC	Multi-mode, 50/125	4700	400 m (1312.34 ft)
				2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)
SFP-XG-SX-M M850-D	850	LC	Multi-mode, 50/125	2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)
SFP-XG-SX-M M850-E	850	LC	Multi-mode, 50/125	4700	400 m (1312.34 ft)
				2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)
SFP-XG-SX-M M850-H	850	LC	Multi-mode, 50/125	4700	400 m (1312.34 ft)
				2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode, 62.5/125	200	33 m (108.27 ft)
				160	26 m (85.30 ft)
SFP-XG-SX-M M850-S	850	LC	Multi-mode, 50/125	4700	400 m (1312.34 ft)
				2000	300 m (984.25 ft)
				500	82 m (269.03 ft)
				400	66 m (216.54 ft)
			Multi-mode,	200	33 m (108.27 ft)

10GE SFP+ transceiver module	Central wavelength (nm)	Connector	Fiber diameter (µm)	Modal bandwidth (MHz × km)	Max transmission distance
			62.5/125	160	26 m (85.30 ft)
SFP-XG-LX-S M1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-S M1310-D	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-S M1310-E	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-S M1310-F	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-S M1310-S	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LH40-SM1550	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH40-SM1550-D	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH40-SM1550-S	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH80-SM1550	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LH80-SM1550-D	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LX-S M1270-BIDI	TX: 1270 RX: 1330	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-S M1330-BIDI	TX: 1330 RX: 1270	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-S M1270-BIDI-S	TX: 1270 RX: 1330	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-S M1330-BIDI-S	TX: 1330 RX: 1270	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LH40-SM1270-BIDI	TX: 1270 RX: 1330	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH40-SM1330-BIDI	TX: 1330 RX: 1270	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-XG-LH80-SM1490-BIDI	TX: 1490 RX: 1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-XG-LH80-SM1550-BIDI	TX: 1550 RX: 1490	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)



IMPORTANT:

The SFP-XG-LX-SM1270-BIDI and SFP-XG-LX-SM1330-BIDI transceiver modules, SFP-XG-LX-SM1270-BIDI-S and SFP-XG-LX-SM1330-BIDI-S transceiver modules, SFP-XG-LH40-SM1270-BIDI and SFP-XG-LH40-SM1330-BIDI transceiver modules, and SFP-XG-LH80-SM1490-BIDI and SFP-XG-LH80-SM1550-BIDI transceiver modules must be used

in pairs. For example, if one end uses the SFP-XG-LX-SM1270-BIDI transceiver module, the other end must use the SFP-XG-LX-SM1330-BIDI transceiver module.

Table7-28 SFP+ copper cables available for the SFP28 ports (2)

SFP+ copper cable	Max transmission distance
LSWM1STK	0.65 m (2.13 ft)
LSWM2STK	1.2 m (3.94 ft)
LSWM3STK	3 m (9.84 ft)
LSTM1STK	5 m (16.40 ft)
SFP-10G-D-CAB-5M-S	5 m (16.40 ft)

Table7-29 SFP+ fiber cables available for the SFP28 ports (2)

SFP+ fiber cable	Max transmission distance
SFP-XG-D-AOC-7M	7 m (22.97 ft)
SFP-XG-D-AOC-7M-H	7 m (22.97 ft)
SFP-XG-D-AOC-10M	10 m (32.81 ft)
SFP-XG-D-AOC-10M-H	10 m (32.81 ft)
SFP-XG-D-AOC-20M	20 m (65.62 ft)
SFP-XG-D-AOC-20M-H	20 m (65.62 ft)

Table7-30 2.5G SFP transceiver modules available for the SFP28 ports

2.5G SFP transceiver module	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-2.5G-LX10-SM1310-DR-I-F	1310	PoDLC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-2.5G-LX10-SM1310-DR-I	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)

Table7-31 GE SFP transceiver modules and cables available for the SFP28 ports

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP transceiver modules					
SFP-GE-T	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)
SFP-GE-T-D	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)
SFP-GE-T-S	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.08 ft)

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-GE-LX-SM 1310-F	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-SX-M M850-A	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-SX-M M850-D	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-SX-M M850-S	850	LC	Multi-mode, 50/125	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			Multi-mode, 62.5/125	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-LX-SM 1310-A	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
			Multi-mode, 50/125	500 or 400	550 m (1804.46 ft)
			Multi-mode, 62.5/125	500	550 m (1804.46 ft)
SFP-GE-LX-SM 1310-D	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM 1310-S	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH40-SM1310-S	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1310	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1310-D	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1550	1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH80-SM1550	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-GE-LH80-SM1550-D	1550	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
SFP-GE-LH100-SM1550	1550	LC	Single-mode, 9/125	N/A	100 km (62.14 miles)
SFP-GE-LX10-SM1310	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)

GE SFP transceiver module and cable	Central wavelength (nm)	Connector	Cable/Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-GE-LH40-SM1310-I	1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH20-SM1310-I	1310	LC	Single-mode, 9/125	N/A	20 km (12.43 miles)
SFP-GE-LX-SM1310-BIDI	TX: 1310 RX: 1490	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM1490-BIDI	TX: 1490 RX: 1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM1310-BIDI-S	TX: 1310 RX: 1490	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM1490-BIDI-S	TX: 1490 RX: 1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM1310-BIDI-I	TX: 1310 RX: 1490	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LX-SM1490-BIDI-I	TX: 1490 RX: 1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH40-SM1310-BIDI	TX: 1310 RX: 1550	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1550-BIDI	TX: 1550 RX: 1310	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH70-SM1490-BIDI	TX: 1490 RX: 1550	LC	Single-mode, 9/125	N/A	70 km (43.50 miles)
SFP-GE-LH70-SM1550-BIDI	TX: 1550 RX: 1490	LC	Single-mode, 9/125	N/A	70 km (43.50 miles)
SFP copper cables					
SFP-STACK-Kit	N/A	N/A	SFP copper cable	N/A	1.5 m (4.92 ft)
SFP-STACK-Kit-S	N/A	N/A	SFP copper cable	N/A	1.5 m (4.92 ft)



IMPORTANT:

The SFP-GE-LX-SM1310-BIDI and SFP-GE-LX-SM1490-BIDI transceiver modules, SFP-GE-LX-SM1310-BIDI-S and SFP-GE-LX-SM1490-BIDI-S transceiver modules, SFP-GE-LX-SM1310-BIDI-I and SFP-GE-LX-SM1490-BIDI-I transceiver modules, SFP-GE-LH70-SM1550-BIDI and SFP-GE-LH70-SM1490-BIDI transceiver modules, and SFP-GE-LH40-SM1310-BIDI and SFP-GE-LH40-SM1550-BIDI transceiver modules must be used in pairs. For example, if one end uses the SFP-GE-LX-SM1310-BIDI transceiver module, the other end must use the SFP-GE-LX-SM1490-BIDI transceiver module.

Figure7-2 SFP28 cable



(1) Connector

(2) Pull latch

! IMPORTANT:

The SFP-25G-D-CAB-4M-A cable is not supported by the S5590-24X4YC-EI, S5590-48TS4X2QC-EI, S5590-24UXM4YC-EI, or S5590-48UXM4YC-EI switch.

NOTE:

- As a best practice, use H3C transceiver modules and cables for the switch.
- The H3C transceiver modules and cables are subject to change over time. For the most recent list of H3C transceiver modules and cables, contact your H3C Support or marketing staff.
- For more information about H3C transceiver modules and cables, see *H3C Transceiver Modules User Guide*.

QSFP+ port

Table7-32 QSFP+ port specifications

Item	Specification
Port type	QSFP+ port
Compatible transceiver modules and cables	• For the QSFP+ ports of the S5590-48TS4X2QC-EI switch and the LSWM2QP2P expansion card on a compatible switch model (except for the S5590-32UN4X4Y2CC-EI and S5590-48UN4Y2CC-EI): ◦ QSFP+ transceiver modules in Table7-33 ◦ QSFP+ copper cables in Table7-34 ◦ QSFP+ fiber cables in Table7-35 • For the QSFP+ ports of the LSWM2QP2P expansion card on the S5590-32UN4X4Y2CC-EI or S5590-48UN4Y2CC-EI switch: ◦ QSFP+ transceiver modules in Table7-36 ◦ QSFP+ copper cables in Table7-37 ◦ QSFP+ fiber cables in Table7-38
Compatible devices	• Switch models that are compatible with the LSWM2QP2P expansion card • S5590-48TS4X2QC-EI

Table7-33 QSFP+ transceiver modules available for the QSFP+ ports (1)

QSFP+ transceiver module	Central wavelength (nm)	Connector	Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
QSFP-40G-SR4-MM850	850	MPO	Multi-mode, 50/125	2000	100 m (328.08 ft)
				4700	150 m (492.13 ft)
QSFP-40G-CR4-MM850	850	MPO	Multi-mode, 50/125	2000	300 m (984.25 ft)
				4700	400 m (1312.34 ft)
QSFP-40G-BI-DI-SR-MM850	Two lanes: • 850 • 900	LC	Multi-mode, 50/125	2000	100 m (328.08 ft)
				4700	150 m (492.13 ft)
QSFP-40G-BI-DI-WDM850	Four lanes: • 850 • 880 • 910 • 940	LC	Multi-mode, 50/125	2000	240 m (787.40 ft)
				4700	350 m (1148.29 ft)
QSFP-40G-LR4-PSM1310	1310	MPO	Multi-mode, 50/125	N/A	10 km (6.21 miles)
QSFP-40G-LR4-WDM1300	Four lanes: • 1271 • 1291 • 1311 • 1331	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-40G-LR4L-WDM1300	Four lanes: • 1271 • 1291 • 1311 • 1331	LC	Single-mode, 9/125	N/A	2 km (1.24 miles)
QSFP-40G-ER4-WDM1300	Four lanes: • 1271 • 1291 • 1311 • 1331	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)

Table7-34 40G QSFP+ copper cables available for the QSFP+ ports (1)

QSFP+ copper cable	Max transmission distance
LSWM1QSTK0	1 m (3.28 ft)
LSWM1QSTK1	3 m (9.84 ft)
LSWM1QSTK2	5 m (16.40 ft)

Table7-35 40G QSFP+ fiber cables available for the QSFP+ ports (1)

QSFP+ fiber cable	Max transmission distance
QSFP-40G-D-AOC-3M	3 m (9.84 ft)
QSFP-40G-D-AOC-7M	7 m (22.97 ft)

QSFP+ fiber cable	Max transmission distance
QSFP-40G-D-AOC-10M	10 m (32.81 ft)
QSFP-40G-D-AOC-20M	20 m (65.62 ft)

Table7-36 QSFP+ transceiver modules available for the QSFP+ ports (2)

QSFP+ transceiver module	Central wavelength (nm)	Connector	Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
QSFP-40G-S R4-MM850	850	MPO	Multi-mode, 50/125	2000	100 m (328.08 ft)
				4700	150 m (492.13 ft)
QSFP-40G-S R4-MM850-H	850	MPO	Multi-mode, 50/125	2000	100 m (328.08 ft)
				4700	150 m (492.13 ft)
QSFP-40G-C SR4-MM850	850	MPO	Multi-mode, 50/125	2000	300 m (984.25 ft)
				4700	400 m (1312.34 ft)
QSFP-40G-C SR4-MM850-H	850	MPO	Multi-mode, 50/125	2000	300 m (984.25 ft)
				4700	400 m (1312.34 ft)
QSFP-40G-LR 4-PSM1310	1310	MPO	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-40G-LR 4-PSM1310-A	1310	MPO	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-40G-LX 4-WDM1300	Four lanes: • 1271 • 1291 • 1311 • 1331	LC	Multi-mode, 50/125	2000	150 m (492.13 ft)
				4700	
QSFP-40G-LR 4-WDM1300	Four lanes: • 1271 • 1291 • 1311 • 1331	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-40G-BI DI-SR-MM850	850	LC	Multi-mode, 50/125	2000	100 m (328.08 ft)
				4700	150 m (492.13 ft)
QSFP-40G-BI DI-WDM850	Four lanes: • 850 • 880 • 910 • 940	LC	Multi-mode, 50/125	2000	240 m (787.40 ft)
				4700	350 m (1148.29 ft)

Table7-37 40G QSFP+ copper cables available for the QSFP+ ports (2)

QSFP+ copper cable	Max transmission distance
LSWM1QSTK0	1 m (3.28 ft)
LSWM1QSTK1	3 m (9.84 ft)

QSFP+ copper cable	Max transmission distance
LSWM1QSTK2	5 m (16.40 ft)

Table7-38 40G QSFP+ fiber cables available for the QSFP+ ports (2)

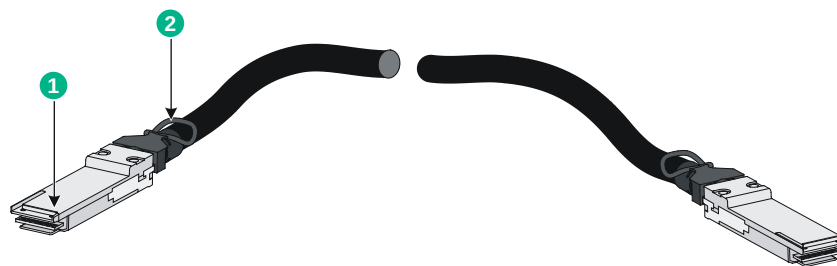
QSFP+ fiber cable	Max transmission distance
QSFP-40G-D-AOC-3M	3 m (9.84 ft)
QSFP-40G-D-AOC-7M QSFP-40G-D-AOC-7M-H	7 m (22.97 ft)
QSFP-40G-D-AOC-10M QSFP-40G-D-AOC-10M-H	10 m (32.81 ft)
QSFP-40G-D-AOC-20M QSFP-40G-D-AOC-20M-H	20 m (65.62 ft)



IMPORTANT:

- The QSFP-40G-SR4-MM850 transceiver module is not supported by the S5590-28T8XC-EI (LS-5590-28T8XC-EI-GL and LS-5590-28T8XC-EI-H3) or S5590-48T4XC-EI (LS-5590-48T4XC-EI-GL and LS-5590-48T4XC-EI-H3) switch with LSWM2QP2P interface cards installed.
- The QSFP-40G-CSR4-MM850 transceiver module is not supported by the S5590-24X4YC-EI and S5590-48TS4X2QC-EI switches.

Figure7-3 40G QSFP+ cable



(1) Connector

(2) Pull tab

NOTE:

- As a best practice, use H3C transceiver modules and cables for the switch.
- The H3C transceiver modules and cables are subject to change over time. For the most recent list of H3C transceiver modules and cables, contact your H3C Support or marketing staff.
- For more information about H3C transceiver modules and cables, see *H3C Transceiver Modules User Guide*.

QSFP28 ports

Table7-39 QSFP28 port specifications

Item	Specification
Port type	QSFP28 port

Item	Specification
Compatible transceiver modules and cables	- For the QSFP28 ports on the LSWM2ZQP2P expansion card: - QSFP28 transceiver modules and cables in Table7-40, Table7-41, and Table7-42 - QSFP+ transceiver modules and cables in Table7-47, Table7-48, and Table7-49 - For the QSFP28 ports on the S5590-32UN4X4Y2CC-EI and S5590-48UN4Y2CC-EI switches: - QSFP28 transceiver modules and cables in Table7-43, Table7-44, Table7-45, and Table7-46 - QSFP+ transceiver modules and cables in Table7-50, Table7-51, and Table7-52
Compatible devices	- Switch models that are compatible with the LSWM2ZQP2P expansion card - S5590-32UN4X4Y2CC-EI - S5590-48UN4Y2CC-EI
Restrictions and guidelines	You can execute the port-speed-mode command on the S5590-32UN4X4Y2CC-EI and S5590-48UN4Y2CC-EI switches to change the rate mode for the SFP28 and QSFP28 ports. - After you execute the port-speed-mode mode 0 command: - Among ports 37 through 42 on the S5590-32UN4X4Y2CC-EI front panel, only ports 37 through 40 and port 42 are available. - Among ports 49 through 54 on the S5590-48UN4Y2CC-EI front panel, only ports 49 through 52 and port 54 are available. - After you execute the port-speed-mode mode 1 command: - Among ports 37 through 42 on the S5590-32UN4X4Y2CC-EI front panel, only QSFP28 ports 41 and 42 are available and they cannot be split. - Among ports 49 through 54 on the S5590-48UN4Y2CC-EI front panel, only QSFP28 ports 53 and 54 are available and they cannot be split.

Table7-40 QSFP28 transceiver modules available for the QSFP28 ports (1)

QSFP28 transceiver module	Central wavelength (nm)	Connector	Fiber type and diameter (μm)	Modal bandwidth (MHz*km)	Maximum transmission distance
QSFP-100G-SR4-MM850	850	MPO	Multi-mode, 50/125	2000	70 m (229.66 ft)
				4700	100 m (328.08 ft)
QSFP-100G-SR4-MM850-H	850	MPO	Multi-mode, 50/125	2000	70 m (229.66 ft)
				4700	100 m (328.08 ft)
QSFP-100G-SWDM4-MM850	Four lanes: • 850 • 880 • 910 • 940	LC	Multi-mode, 50/125	2000	70 m (229.66 ft)
				4700	100 m (328.08 ft)
QSFP-100G-eSR4-MM850	850	MPO	Multi-mode, 50/125	4700	300 m (984.25 ft)
QSFP-100G-PSM4-SM1310	1310	MPO	Single-mode, 9/125	N/A	0.5 km (0.31 miles)
QSFP-100G-LR4-WDM1310	Four lanes:	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)

QSFP28 transceiver module	Central wavelength (nm)	Connector	Fiber type and diameter (μm)	Modal bandwidth (MHz*km)	Maximum transmission distance
00	• 1295.56 • 1300.05 • 1304.58 • 1309.14				
QSFP-100G-LR4L-WDM1300	Four lanes: • 1271 • 1291 • 1311 • 1331	LC	Single-mode, 9/125	N/A	2 km (1.24 miles)
QSFP-100G-ER4-WDM1300	Four lanes: • 1295.56 • 1300.05 • 1304.58 • 1309.14	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
QSFP-100G-ZR4-WDM1300	Four lanes: • 1295.56 • 1300.05 • 1304.58 • 1309.14	LC	Single-mode, 9/125	N/A	80 km (49.71 miles)
QSFP-100G-ER4L-WDM1300	Four lanes: • 1295 • 1300 • 1304 • 1309	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)

Table7-41 100G QSFP28 fiber cables available for the QSFP28 ports (1)

QSFP28 fiber cable	Max transmission distance
QSFP-100G-D-AOC-7M	7 m (22.97 ft)
QSFP-100G-D-AOC-7M-H	7 m (22.97 ft)
QSFP-100G-D-AOC-10M	10 m (32.81 ft)
QSFP-100G-D-AOC-10M-H	10 m (32.81 ft)
QSFP-100G-D-AOC-20M	20 m (65.62 ft)
QSFP-100G-D-AOC-20M-H	20 m (65.62 ft)

Table7-42 100G QSFP28 copper cables available for the QSFP28 ports (1)

QSFP28 copper cable	Max transmission distance
QSFP-100G-D-CAB-1M	1 m (3.28 ft)
QSFP-100G-D-CAB-3M	3 m (9.84 ft)
QSFP-100G-D-CAB-5M	5 m (16.40 ft)

Table7-43 QSFP28 transceiver modules available for the QSFP28 ports (2)

QSFP28 transceiver module	Central wavelength (nm)	Connector	Fiber type and diameter (μm)	Modal bandwidth (MHz*km)	Maximum transmission distance
QSFP-100G-SR4-MM850	850	MPO	Multi-mode, 50/125	2000	70 m (229.66 ft)
				4700	100 m (328.08 ft)
QSFP-100G-SR4-MM850-H	850	MPO	Multi-mode, 50/125	2000	70 m (229.66 ft)
				4700	100 m (328.08 ft)
QSFP-100G-eSR4-MM850	850	MPO	Multi-mode, 50/125	4700	300 m (984.25 ft)
QSFP-100G-LR4-WDM1300	Four lanes: • 1295.56 • 1300.05 • 1304.58 • 1309.14	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-100G-SR4-MM850-A	850	MPO	Multi-mode, 50/125	2000	70 m (229.66 ft)
				4700	100 m (328.08 ft)

Table7-44 100G QSFP28 fiber cables available for the QSFP28 ports (2)

QSFP28 fiber cable	Max transmission distance
QSFP-100G-D-AOC-7M	7 m (22.97 ft)
QSFP-100G-D-AOC-7M-H	7 m (22.97 ft)
QSFP-100G-D-AOC-10M	10 m (32.81 ft)
QSFP-100G-D-AOC-10M-H	10 m (32.81 ft)
QSFP-100G-D-AOC-20M	20 m (65.62 ft)
QSFP-100G-D-AOC-20M-H	20 m (65.62 ft)

Table7-45 100G QSFP28 copper cables available for the QSFP28 ports (2)

QSFP28 copper cable	Max transmission distance
QSFP-100G-D-CAB-1M	1 m (3.28 ft)
QSFP-100G-D-CAB-3M	3 m (9.84 ft)
QSFP-100G-D-CAB-5M	5 m (16.40 ft)
CAB-3M-QSFP28	3 m (9.84 ft)

Table7-46 100G QSFP28 to SFP28 copper cables available for the QSFP28 ports

QSFP28 to SFP28 copper cable	Max transmission distance
QSFP-100G-4SFP-25G-CAB-1M	1 m (3.28 ft)
QSFP-100G-4SFP-25G-CAB-3M	3 m (9.84 ft)
QSFP-100G-4SFP-25G-CAB-5M	5 m (16.40 ft)

QSFP28 to SFP28 copper cable	Max transmission distance
CAB-3M-QSFP28/4SFP28	3 m (9.84 ft)

Table7-47 QSFP+ transceiver modules available for the QSFP28 ports (1)

QSFP+ transceiver module	Central wavelength (nm)	Connector	Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
QSFP-40G-SR4-MM850	850	MPO	Multi-mode, 50/125	2000	100 m (328.08 ft)
				4700	150 m (492.13 ft)
QSFP-40G-CR4-MM850	850	MPO	Multi-mode, 50/125	2000	300 m (984.25 ft)
				4700	400 m (1312.34 ft)
QSFP-40G-BI-DI-SR-MM850	Two lanes: • 850 • 900	LC	Multi-mode, 50/125	2000	100 m (328.08 ft)
				4700	150 m (492.13 ft)
QSFP-40G-BI-DI-WDM850	Four lanes: • 850 • 880 • 910 • 940	LC	Multi-mode, 50/125	2000	240 m (787.40 ft)
				4700	350 m (1148.29 ft)
QSFP-40G-LR4-PSM1310	1310	MPO	Multi-mode, 50/125	N/A	10 km (6.21 miles)
QSFP-40G-LR4-WDM1300	Four lanes: • 1271 • 1291 • 1311 • 1331	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-40G-LR4L-WDM1300	Four lanes: • 1271 • 1291 • 1311 • 1331	LC	Single-mode, 9/125	N/A	2 km (1.24 miles)
QSFP-40G-ER4-WDM1300	Four lanes: • 1271 • 1291 • 1311 • 1331	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)

Table7-48 40G QSFP+ copper cables available for the QSFP28 ports (1)

QSFP+ copper cable	Max transmission distance
LSWM1QSTK0	1 m (3.28 ft)
LSWM1QSTK1	3 m (9.84 ft)
LSWM1QSTK2	5 m (16.40 ft)

Table7-49 40G QSFP+ fiber cables available for the QSFP28 ports (1)

QSFP+ fiber cable	Max transmission distance
QSFP-40G-D-AOC-3M	3 m (9.84 ft)
QSFP-40G-D-AOC-7M	7 m (22.97 ft)
QSFP-40G-D-AOC-10M	10 m (32.81 ft)
QSFP-40G-D-AOC-20M	20 m (65.62 ft)

Table7-50 QSFP+ transceiver modules available for the QSFP28 ports (2)

QSFP+ transceiver module	Central wavelength (nm)	Connector	Fiber type and diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
QSFP-40G-S R4-MM850	850	MPO	Multi-mode, 50/125	2000	100 m (328.08 ft)
				4700	150 m (492.13 ft)
QSFP-40G-S R4-MM850-H	850	MPO	Multi-mode, 50/125	2000	100 m (328.08 ft)
				4700	150 m (492.13 ft)
QSFP-40G-C SR4-MM850	850	MPO	Multi-mode, 50/125	2000	300 m (984.25 ft)
				4700	400 m (1312.34 ft)
QSFP-40G-C SR4-MM850-H	850	MPO	Multi-mode, 50/125	2000	300 m (984.25 ft)
				4700	400 m (1312.34 ft)
QSFP-40G-LR 4-PSM1310	1310	MPO	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-40G-LR 4-PSM1310-A	1310	MPO	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-40G-LX 4-WDM1300	Four lanes: • 1271 • 1291 • 1311 • 1331	LC	Multi-mode, 50/125	2000	150 m (492.13 ft)
				4700	
QSFP-40G-LR 4-WDM1300	Four lanes: • 1271 • 1291 • 1311 • 1331	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
QSFP-40G-BI DI-SR-MM850	850	LC	Multi-mode, 50/125	2000	100 m (328.08 ft)
				4700	150 m (492.13 ft)
QSFP-40G-BI DI-WDM850	Four lanes: • 850 • 880 • 910 • 940	LC	Multi-mode, 50/125	2000	240 m (787.40 ft)
				4700	350 m (1148.29 ft)

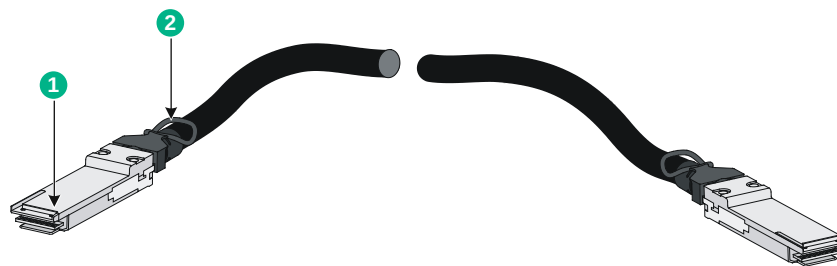
Table7-51 40G QSFP+ copper cables available for the QSFP28 ports (2)

QSFP+ copper cable	Max transmission distance
LSWM1QSTK0	1 m (3.28 ft)
LSWM1QSTK1	3 m (9.84 ft)
LSWM1QSTK2	5 m (16.40 ft)

Table7-52 40G QSFP+ fiber cables available for the QSFP28 ports (2)

QSFP+ fiber cable	Max transmission distance
QSFP-40G-D-AOC-3M	3 m (9.84 ft)
QSFP-40G-D-AOC-7M QSFP-40G-D-AOC-7M-H	7 m (22.97 ft)
QSFP-40G-D-AOC-10M QSFP-40G-D-AOC-10M-H	10 m (32.81 ft)
QSFP-40G-D-AOC-20M QSFP-40G-D-AOC-20M-H	20 m (65.62 ft)

Figure7-4 100G QSFP28 copper cable



(1) Connector

(2) Pull tab

NOTE:

- As a best practice, use H3C transceiver modules and cables for the switch.
- The H3C transceiver modules and cables are subject to change over time. For the most recent list of H3C transceiver modules and cables, contact your H3C Support or marketing staff.
- For more information about H3C transceiver modules and cables, see *H3C Transceiver Modules User Guide*.

10/100/1000BASE-T Ethernet port

Table7-53 10/100/1000BASE-T Ethernet port specifications

Item	Specification
Connector type	RJ-45
Rate, duplex mode, and auto-MDI/MDI-X	• 10 Mbps, full duplex • 100 Mbps, full duplex • 1000 Mbps, full duplex

Item	Specification
	MDI/MDI-X autosensing
Max transmission distance	100 m (328.08 ft)
Transmission medium	Category 5 or above twisted pair cable
Compliant standard	IEEE 802.3i, 802.3u, and 802.3ab
Compatible devices	All device models (excluding the S5590-48S4XC-HI and S5590-48S4XC-EI switches)

10G/5G/2.5G/1000 BASE-T autosensing Ethernet port

Table7-54 10G/5G/2.5G/1000 BASE-T autosensing Ethernet port specifications

Item	Specification
Connector type	RJ-45
Rate, duplex mode, and auto-MDI/MDI-X	5 Gbps, full duplex 2.5 Gbps, full duplex 1 Gbps, full duplex 100 Mbps, full duplex - MDI/MDI-X autosensing
Max transmission distance	10G mode: 55 m (180.45 ft) over Category-5e twisted pair cable 55 m (180.45 ft) over Category-6 unshielded twisted pair cable 100 m (328.08 ft) over Category-6 shielded twisted pair cable 5G mode: 100 m (328.08 ft) over Category-5e or above twisted pair cable 2.5G mode: 200 m (656.17 ft) over Category-5e or above twisted pair cable 1000 BASE-T mode: 140 m (459.32 ft) over Category-5e or above twisted pair cable 100 BASE-T mode: 140 m (459.32 ft) over Category-5e or above twisted pair cable
Transmission medium	Category-5 or above twisted pair cable
Compliant standard	IEEE 802.3an and IEEE 802.3ab
Compatible devices	S5590-24UXM4YC-EI, S5590-48UXM4YC-EI, S5590-24UXMC-EI

10G/5G/2.5G/1000M/100M/10M BASE-T autosensing Ethernet port

Table7-55 10G/5G/2.5G/1000M/100M/10M BASE-T autosensing Ethernet port specifications

Item	Specification
Connector type	RJ-45
Rate, duplex mode, and auto-MDI/MDI-X	10 Gbps, full duplex 5 Gbps, full duplex 2.5 Gbps, full duplex 1000 Mbps, full duplex

Item	Specification
	100 Mbps, full duplex 10 Mbps, full duplex - MDI/MDI-X autosensing
Max transmission distance	10G mode: 55 m (180.45 ft) over Category-5e twisted pair cable 55 m (180.45 ft) over Category-6 unshielded twisted pair cable 100 m (328.08 ft) over Category-6 shielded twisted pair cable 5G mode: 100 m (328.08 ft) over Category-5e or above twisted pair cable 2.5G mode: 200 m (656.17 ft) over Category-5e or above twisted pair cable 1000 BASE-T mode: 140 m (459.32 ft) over Category-5e or above twisted pair cable 100 BASE-T mode: 140 m (459.32 ft) over Category-5e or above twisted pair cable 10 BASE-T mode: 100 m (328.08 ft) over Category-5 or above twisted pair cable
Transmission medium	Category-5 or above twisted pair cable
Compliant standard	- IEEE 802.3an - IEEE 802.3ab
Compatible devices	- S5590-16UN16UM4YC-EI - S5590-32UN16UM4YC-EI - S5590-48UM4YC-EI

2.5G/1000M/100M/10M BASE-T autosensing Ethernet port

Table7-56 2.5G/1000M/100M/10M BASE-T autosensing Ethernet port specifications

Item	Specification
Connector type	RJ-45
Rate, duplex mode, and auto-MDI/MDI-X	2.5 Gbps, full duplex 1000 Mbps, full duplex 100 Mbps, full duplex 10 Mbps, full duplex - MDI/MDI-X autosensing
Max transmission distance	2.5G mode: 200 m (656.17 ft) over Category-5e or above twisted pair cable 1000 BASE-T mode: 140 m (459.32 ft) over Category-5e or above twisted pair cable 100 BASE-T mode: 140 m (459.32 ft) over Category-5e or above twisted pair cable 10 BASE-T mode: 100 m (328.08 ft) over Category-5 or above twisted pair cable
Transmission medium	Category-5 or above twisted pair cable
Compliant standard	- IEEE 802.3an - IEEE 802.3ab
Compatible devices	- S5590-8N24NS6X-EI - S5590-16UN16UM4YC-EI - S5590-32UN4X4Y2CC-EI - S5590-32UN16UM4YC-EI - S5590-48UN4Y2CC-EI

Combo interface

The S5590-28T8XC-HI, S5590-28S8XC-HI, S5590-28T8XC-EI, S5590-28S8XC-EI, and S5590-28P8XC-EI switches each provide four combo interfaces on the front panel. A combo interface contains an SFP port and a 10/100/1000BASE-T autosensing Ethernet port. Only one of these two ports can operate at a time.

Ports on an LSWM2-iMC intelligent network management module

Table7-57 Console port specifications

Item	Specification
Connector type	RJ-45
Compliant standard	EIA/TIA-232
Transmission rate	115200 bps
Transmission medium and max transmission distance	≤ 15 m (49.21 ft) over a common asynchronous serial port cable
Services	- Provides connection to an ASCII terminal - Provides connection to a serial port of a local terminal (for example, a PC) running a terminal emulation program

Table7-58 Management Ethernet port specifications

Item	Specification
Connector type	RJ-45
Transmission rate and duplex mode	1000 Mbps, full duplex 100 Mbps, full duplex 10 Mbps, full duplex
MDI/MDI-X autosensing	Supported
Transmission medium	Category-5 or above twisted pair cable
Max transmission distance	100 m (328.08 ft)
Compliant standard	IEEE 802.3i, 802.3u, 802.3ab
Functions and services	Connects to a computer or remote network management station for upgrading and managing applications

Table7-59 USB port specifications

Item	Specification
Port type	USB 3.0
Compliant standard	xHCI
Transmission rate	5 Gbps
Functions and services	Accesses the file system of the module, for example, to upload or download application and configuration files

Ports on an LSWM2EC EPS scanner module

Table7-60 Console port specifications

Item	Specification
Connector type	RJ-45
Compliant standard	EIA/TIA-232
Port transmission rate	115200 bps
Transmission medium and max transmission distance	≤ 15 m (49.21 ft) over a common asynchronous serial interface cable
Services	• Provides connection to an ASCII terminal • Provides connection to the serial port of a local PC running terminal emulation program

Table7-61 Management Ethernet port specifications

Item	Specification
Connector type	RJ-45
Port transmission rate	• 1000 Mbps, full duplex • 100 Mbps, full duplex • 10 Mbps, full duplex
MDI/MDI-X autosensing	Supported
Transmission medium	Category-5 or above twisted pair cable
Max transmission distance	100 m (328.08 ft)
Compliant standard	IEEE 802.3i, 802.3u, and 802.3ab
Functions and services	Connects to a local PC or remote station for network management or software upgrade

Table7-62 USB port specifications

Item	Specification
Port type	USB 3.0
Compliant standard	xHCI
Port transmission rate	5 Gbps
Functions and services	Uploads or downloads files, such as software image file and configuration file, from the flash file system on the module.

Ports on an LSPM6FWD firewall module

Table7-63 Console port specifications

Item	Specification
Connector type	RJ-45
Compliant standard	RS-232
Port transmission rate	9600 bps (default) to 115200 bps
Transmission medium and max transmission distance	≤ 15 m (49.21 ft) over a common asynchronous serial interface cable
Services	• Provides connection to an ASCII terminal • Provides connection to the serial port of a local PC running terminal emulation program • Supports command line interface (CLI)

Table7-64 10/100/1000BASE-T Ethernet copper port specifications

Item	Specification
Connector type	RJ-45
Compliant standard	IEEE 802.3, 802.3u, and 802.3ab
Port type	MDI/MDI-X autosensing
Transmission medium	Category-5 or above twisted pair cable
Transmission distance	100 m (328.08 ft)
Rate and duplex mode	• 10 Mbps, half/full duplex • 100 Mbps, half/full duplex • 1000 Mbps, full duplex

To connect cables to the ports on expansion cards, follow these guidelines:

- Do not bundle cables in their first 20 m (65.62 ft).
- Separate power cords and twisted pair cables at and around the distribution frame.
- For ports adjacent to one another on the device, the peer ports on the distribution frame is preferably not adjacent, for example:
 - If the device connects to one distribution frame, connect port 1 on the device to port 1 on the distribution frame and port 2 on the device to port 3 on the distribution frame.
 - If the device connects to two distribution frames, connect port 1 on the device to port 1 on distribution frame 1 and port 2 on the device to port 1 on distribution frame 2.
- Keep the device and cables away from the interference source, such as a two-way radio and a high-power variable-frequency drive.

Ports on an LSPM6FWD8 firewall module

Table7-65 Console port specifications

Item	Specification
Connector type	RJ-45

Item	Specification
Compliant standard	RS-232
Transmission rate	9600 bps (default) to 115200 bps
Transmission medium	Common asynchronous serial port cable
Transmission distance	≤ 15 m (49.21 ft)
Services	- Provides connection to an ASCII terminal. - Provides connection to a serial port on a local PC running a terminal emulation program. - Supports command line interface (CLI).

Table7-66 Copper management Ethernet port specifications

Item	Specification
Connector type	RJ-45
Compliant standard	802.3, 802.3u, 802.3ab
Port type	MDI/MDIX autosensing
Transmission medium	Category-5 or above twisted pair cable
Transmission distance	100 m (328.08 ft)
Transmission rate and duplex mode	10 Mbps, half/full duplex mode 100 Mbps, half/full duplex mode 1000 Mbps, full duplex mode

Ports on an LSPM6FWDB firewall module

Table7-67 Console port specifications

Item	Specification
Connector type	RJ-45
Compliant standard	RS-232
Transmission rate	9600 bps (default) to 115200 bps
Transmission medium	Common asynchronous serial port cable
Transmission distance	≤ 15 m (49.21 ft)
Services	- Provides connection to an ASCII terminal. - Provides connection to a serial port on a local PC running a terminal emulation program. - Supports CLI.

Table7-68 Copper management Ethernet port specifications

Item	Specification
Connector type	RJ-45
Compliant standard	802.3, 802.3u, 802.3ab

Item	Specification
Port type	MDI/MDIX autosensing
Transmission medium	Category-5 or above twisted pair cable
Transmission distance	100 m (328.08 ft)
Transmission rate and duplex mode	10 Mbps, half/full duplex mode 100 Mbps, half/full duplex mode 1000 Mbps, full duplex mode

Port rate limit restrictions

⚠ IMPORTANT:

- A port group includes ports that must operate at the same rate. When the ports in a port group operate in autonegotiation mode, they automatically operate at the rate of the first inserted transceiver module. You cannot install transceiver modules with different transmission rates on these ports. If you execute the **speed** command, the ports in a port group operate at the specified rate. Transceiver modules of other rates are not supported.
- Switch models or ports not mentioned in this section do not have rate limit restrictions.

Table7-69 Port rate limit restrictions for expansion cards

Switch model	Rate limit restrictions
S5590-EI switch series S5590-HI switch series (expansion card installed in slot 2) S5500V3-HI switch series	- For the 10G and 25G 2-port/4-port expansion cards, all ports must operate at the same rate. - For the 10G and 25G 8-port expansion cards, the four lowest-numbered ports must operate at the same rate, and the four highest-numbered ports must operate at the same rate.

Table7-70 Port rate limit restrictions for fixed 25G ports on the switch

Switch model	Rate limit restrictions
S5590-EI switch series	- For switch models with four 25G ports, the four 25G ports must operate at the same rate. - For switch models with eight 25G ports, the four lowest-numbered 25G ports must operate at the same rate, and the four highest-numbered 25G ports must operate at the same rate.

Table7-71 Port rate limit restrictions for fixed 10G and 2.5G ports on the switch

Switch model	Port type	Ports	Supported rates	Rate limit restrictions
S5590-48NS6X-EI	10G	Ports 49 to 51	10 Gbps, 2.5 Gbps, 1 Gbps	The ports can operate at a maximum of one rate.
	10G	Ports 52 to 54	10 Gbps, 2.5 Gbps,	The ports can operate at a

Switch model	Port type	Ports	Supported rates	Rate limit restrictions
			1 Gbps	maximum of one rate.
S5590-8N24NS6X-EI	2.5G fiber port	Ports 9 to 12	2.5 Gbps	The ports can operate at a maximum of one rate.
	2.5G fiber port	Ports 13 and 14	2.5 Gbps	The ports can operate at a maximum of one rate.
	10G	Ports 33 to 38	10 Gbps, 2.5 Gbps, 1 Gbps	The ports can operate at a maximum of one rate.
	2.5G	Ports 25 to 28	2.5 Gbps, 1 Gbps	The ports can operate at a maximum of one rate.
	2.5G	Ports 29 to 32	2.5 Gbps, 1 Gbps	The ports can operate at a maximum of one rate.
S5590-16UN16U M4YC-EI	10G	Ports 17 to 32	10 Gbps, 2.5 Gbps, 1 Gbps	Among ports 17 to 32, every four consecutive ports form a group. In a group, the four ports can operate at a maximum of two rates simultaneously. In two consecutive groups, the eight ports can operate at a maximum of three rates simultaneously.
S5590-32UN16U M4YC-EI	10G	Ports 33 to 48	10 Gbps, 2.5 Gbps, 1 Gbps	Among ports 33 to 48, every four consecutive ports form a group. In a group, the four ports can operate at a maximum of two rates simultaneously. In two consecutive groups, the eight ports can operate at a maximum of three rates simultaneously.
S5590-32UN4X4Y 2CC-EI	10G	Ports 33 to 36	10 Gbps, 2.5 Gbps, 1 Gbps	The four ports can operate at a maximum of two rates simultaneously.

LEDs

System status LED

The system status LED shows the operating status of the switch.

Table 7-72 System status LED description

LED mark	Status	Description
SYS	Steady green	The switch has started correctly.
	Flashing green (1 Hz)	The switch is performing power-on self test (POST).
	Steady red	The switch has failed the POST or is faulty.
	Alternating between red and green (4 Hz) (Available for the switch models without an ID LED in R8336P05 or later)	Helps identify the switch. Note: To identify the switch location, execute the locator blink blink-time command. This LED will alternate

LED mark	Status	Description
	versions)	between red and green at 4 Hz.
	Off	The switch is powered off.

Power status LED

For the S5590-EI switch series, the power status LED shows the operating status of a power supply.

Table7-73 Power status LED description

LED mark	Status	Description
PWR1/PWR2	Steady green	The power supply is operating correctly.
	Steady yellow	The power supply is present, but it is not operating or is faulty.
	Off	No power supply is present.

Mode LED

The mode LED (MODE) works in conjunction with the port status LEDs to show more information about the switch.

The mode LED indicates the type of information that the port status LEDs are showing.

After you press the mode button to change the mode LED status into flashing green or flashing yellow, the mode LED keeps in that state for only 45 seconds and then turns steady green automatically.

Table7-74 Mode LED description

LED mark	Status	Description
MODE	Steady green	The port status LEDs indicate link state of the ports.
	Flashing green (available only for PoE switches)	The port status LEDs indicate the PoE status of the ports.
	Flashing yellow	The port status LEDs indicate the IRF member ID of the switch. For example, if the LEDs for ports 1 to 4 are steady green and the others are off, the IRF member ID of the switch is 4.

Management Ethernet port LED

Table7-75 Management Ethernet port LED description

Management Ethernet port LED status	Description
Steady green	A link is present on the port.
Flashing yellow	The port is sending or receiving data.
Off	No link is present on the port.

SFP port LED

The SFP port LEDs work in conjunction and the mode LED to indicate the operating status of SFP ports.

Table7-76 SFP port LED description

Mode LED (MODE) status	SFP port LED status	Description
Steady green (rate mode)	Steady green	The port is operating at 100/1000 Mbps.
	Flashing green	The port is sending or receiving data at 100/1000 Mbps.
	Off	No link is present on the port.
Flashing yellow (IRF mode)	Steady green	The SFP port LEDs on the switch work in conjunction to indicate the IRF member ID of the switch. For example, if the LEDs for ports 1 to 4 are steady green and the others are off, the IRF member ID of the switch is 4.

2.5G SFP port LED

Table7-77 2.5G SFP port LED description

Mode LED (MODE) status	2.5G SFP port LED status	Description
Steady green (rate mode)	Steady green	The port is operating at 2.5 Gbps.
	Flashing green	The port is sending or receiving data at 2.5 Gbps.
	Steady yellow	The port is operating at 1 Gbps or 100 Mbps.
	Flashing yellow	The port is sending or receiving data at 1 Gbps or 100 Mbps.
	Off	No link is present on the port.
Flashing yellow (IRF mode)	Off	The mode LED is operating in IRF mode.

SFP+ port LED

Table7-78 LED description for SFP+ ports incompatible with 2.5G SFP transceiver modules

Mode LED status	SFP+ port LED status	Description
Steady green (rate mode)	Steady green	The port is operating at 10 Gbps.
	Flashing green	The port is sending or receiving data at 10 Gbps.
	Steady yellow	The port is operating at 1 Gbps.
	Flashing yellow	The port is sending or receiving data at 1 Gbps.
	Off	No link is present on the port.
Flashing green (PoE mode, available only for PoE switches)	Off	The mode LED (MODE) is operating in PoE mode.

Mode LED status	SFP+ port LED status	Description
Flashing yellow (IRF mode)	Off	When the mode LED (MODE) is flashing yellow (IRF mode), the SFP+ port LEDs are off.

Table7-79 LED description for SFP+ ports compatible with 2.5G SFP transceiver modules

Mode LED status	SFP+ port LED status	Description
Steady green (rate mode)	Steady green	The port is operating at 10 Gbps.
	Flashing green	The port is sending or receiving data at 10 Gbps.
	Steady yellow	The port is operating at 1/2.5 Gbps.
	Flashing yellow	The port is sending or receiving data at 1/2.5 Gbps.
	Off	No link is present on the port.
Flashing yellow (IRF mode)	Off	The mode LED is operating in IRF mode.

SFP28 port LED

Table7-80 LED description for SFP28 ports incompatible with 2.5G SFP transceiver modules

LED status	Description
Steady green	The port is operating at 25 Gbps.
Flashing green	The port is sending or receiving data at 25 Gbps.
Steady yellow	The port is operating at 10 Gbps.
Flashing yellow	The port is sending or receiving data at 10 Gbps.
Off	- No module has been installed or no link is present on the port. - The mode LED is operating in PoE mode (available only for PoE switch models).

Table7-81 LED description for SFP28 ports compatible with 2.5G SFP transceiver modules

LED status	Description
Steady green	The port is operating at 25 Gbps.
Flashing green	The port is sending or receiving data at 25 Gbps.
Steady yellow	The port is operating at 10/2.5/1 Gbps.
Flashing yellow	The port is sending or receiving data at 10/2.5/1 Gbps.
Off	- No module has been installed or no link is present on the port. - The mode LED is operating in PoE mode (available only for PoE switch models).

QSFP+ port LED

Table7-82 QSFP+ port LED description

LED status	Description
Steady green	A module has been installed and the port is operating at 40 Gbps.
Flashing green	The port is sending or receiving data at 40 Gbps.
Steady yellow	A module has been installed and the port is operating at 10 Gbps.
Flashing yellow	The port is sending or receiving data at 10 Gbps.
Off	No module has been installed or no link is present on the port.

QSFP28 port LED

Table7-83 QSFP28 port LED description

LED status	Description
Steady green	A module has been installed and the port is operating at 100 Gbps.
Flashing green	The port is sending or receiving data at 100 Gbps.
Steady yellow	A module has been installed and the port is operating at 40 Gbps.
Flashing yellow	The port is sending or receiving data at 40 Gbps.
Off	No module has been installed or no link is present on the port.

10/100/1000BASE-T autosensing Ethernet port LED

The 10/100/1000BASE-T autosensing Ethernet port LEDs work in conjunction with the mode LED to indicate the operating status of the ports from different aspects, as shown in [Table7-84](#).

Table7-84 10/100/1000BASE-T autosensing Ethernet port LED description

Mode LED (MODE) status	Ethernet port LED status	Description
Steady green (rate mode)	Steady green	The port is operating at 10/100/1000 Mbps.
	Flashing green	The port is sending or receiving data at 10/100/1000 Mbps.
	Off	No link is present on the port.
Flashing green (PoE mode, available only for PoE switches)	Steady green	PoE power supply is normal.
	Flashing green (1 Hz)	- The maximum PoE power provided by the port does not meet the power requirement of the PD. - PoE power supply overcurrent, overvoltage, or short-circuit has occurred. - The remaining power of the switch does not meet the power supply requirement of the port.
	Off	The port is not connected to a PD or PoE is not enabled on the port.
Flashing yellow	Steady green	The autosensing Ethernet port LEDs on the switch work in

Mode LED (MODE) status	Ethernet port LED status	Description
(IRF mode)		conjunction to indicate the IRF member ID of the switch. For example, if the LEDs for ports 1 to 4 are steady green and the others are off, the IRF member ID of the switch is 4.

10G/5G/2.5G/1000BASE autosensing Ethernet port LED

Table7-85 10G/5G/2.5G/1000BASE autosensing Ethernet port LED description

LED status	Description
Steady green	The port is operating at 10 Gbps.
Flashing green	The port is sending or receiving data at 10 Gbps.
Steady yellow	The port is operating at 100 Mbps, Gbps, 2.5 Gbps, or 5 Gbps.
Flashing yellow	The port is sending or receiving data at 100 Mbps, 1 Gbps, 2.5 Gbps, or 5 Gbps.
Off	No link is present on the port.

2.5G/1000M/100M/10M BASE-T autosensing Ethernet port LED

Table7-86 2.5G/1000M/100M/10M BASE-T autosensing Ethernet port LED description

LED status	Description
Steady green	The port is operating at 2.5 Gbps.
Flashing green	The port is sending or receiving data at 2.5 Gbps.
Steady yellow	The port is operating at 1000 Mbps, 100 Mbps, or 10 Mbps.
Flashing yellow	The port is sending or receiving data at 1000 Mbps, 100 Mbps, or 10 Mbps.
Off	No link is present on the port.

10G/5G/2.5G/1000M/100M/10M BASE-T autosensing Ethernet port LED

Table7-87 10G/5G/2.5G/1000M/100M/10M BASE-T autosensing Ethernet port LED description

LED status	Description
Steady green	The port is operating at 10 Gbps.
Flashing green	The port is sending or receiving data at 10 Gbps.
Steady yellow	The port is operating at 5 Gbps, 2.5 Gbps, 1000 Mbps, 100 Mbps, or 10 Mbps.
Flashing yellow	The port is sending or receiving data at 5 Gbps, 2.5 Gbps, 1000 Mbps, 100 Mbps, or 10 Mbps.
Off	No link is present on the port.

Expansion card status LED

The S5590-HI switch series provides two expansion slots at the rear. The S5590-EI switch series (except for the S5590-8N24NS6X-EI and S5590-48NS6X-EI) provides one expansion slot at the rear. The expansion card status LED on the front panel indicates the operating status of the expansion card.

Table7-88 Expansion card status LED description

LED mark	Status	Description
SLOT/SLOT1/SLOT2	Steady green	The expansion card is operating correctly.
	Flashing yellow	The switch does not support the expansion card model, or the expansion card is faulty.
	Off	The expansion slot is empty.

Status LED on an LSPM1FANSA-SN/LSPM1FANSB-SN fan tray

The LSPM1FANSA-SN and LSPM1FANSB-SN fan trays each have a LED to indicate the fan tray operating status.

Table7-89 Description for the status LED on an LSPM1FANSA-SN/LSPM1FANSB-SN fan tray

Status	Description
Off	The fan tray is operating correctly.
On	The fan tray is operating incorrectly.

LEDs on an LSWM2-iMC intelligent network management module

Table7-90 Management port LED description

LED status	Description
Steady green	The port is operating at 1000/100/10 Mbps.
Flashing green	The port is sending or receiving data at 1000/100/10 Mbps.
Off	No link is present on the port.

LEDs on an LSWM2SP8P/LSWM2SP8PM interface card

The LSWM2SP8P and LSWM2SP8PM interface cards each provide eight SFP+ ports.

Table7-91 SFP+ port LED description

LED status	Description
Steady green	A module has been installed and the port is operating at 10 Gbps.
Flashing green	The port is sending or receiving data at 10 Gbps.

LED status	Description
Steady yellow	A module has been installed and the port is operating at 1 Gbps.
Flashing yellow	The port is sending or receiving data at 1 Gbps.
Off	No module has been installed or no link is present on the port.

LEDs on an LSWM2EC EPS scanner module

Table7-92 Management port LED description

LED status	Description
Steady green	The port is operating at 1000/100/10 Mbps.
Flashing green	The port is sending or receiving data at 1000/100/10 Mbps.
Off	No link is present on the port.

LEDs on an LSPM6FWD firewall module

Table7-93 Description for the LEDs on an LSPM6FWD firewall module

LED	Mark	Status	Description
Management Ethernet port LED	ACT/LINK	Off	No link is present on the port.
		Steady green	A link is present on the port.
		Flashing green	The port is sending or receiving data.
System status LED	SYS	Off	No power is input or the firewall module has failed.
		Slowly flashing green	The system has started up and is operating correctly.
		Fast flashing green	The system is loading software.

LEDs on an LSPM6FWD8 firewall module

Table7-94 Description for the LEDs on an LSPM6FWD8 firewall module

LED	Mark	Status	Description
Management Ethernet port LED	ACT/LINK	Off	No link is present on the port.
		Steady green	A link is present on the port.
		Flashing green	The port is sending or receiving data.
System status LED	SYS	Off	No power is input or the firewall module has failed.
		Slowly flashing green	The system has started up and is operating correctly.
		Fast flashing green	The system is loading software.

LEDs on an LSPM6FWDB firewall module

Table7-95 Description for the LEDs on an LSPM6FWDB firewall module

LED	Mark	Status	Description
Management Ethernet port LED	ACT/LINK	Off	No link is present on the port.
		Steady green	A link is present on the port.
		Flashing green	The port is sending or receiving data.
System status LED	SYS	Off	No power is input or the firewall module has failed.
		Slowly flashing green	The system has started up and is operating correctly.
		Fast flashing green	The system is loading software.

ID LED

Some switch models provide an ID LED to identify the switch location.

Table7-96 ID LED description

LED mark	LED status	Description
ID	Flashing blue	Helps identify the switch. Note: To identify the switch location, execute the locator blink blink-time command. The LED will flash blue.

8 Buttons

Reset button

Some switch models provide a reset button to restore the factory default or reboot the switch.

Table8-1 Reset button description

Mark	Button	Description
RESET	Reset button	• To reboot the switch, press and hold the button for less than 5 seconds and release the button when the SYS LED flashes red slowly (1 Hz). • To restore the factory default and reboot the switch, press and hold the button for more than 5 seconds and release the button when the SYS LED flashes red rapidly (8 Hz). After the switch joins an IRF fabric, it generates a message and restarts if you perform this operation. To restore the switch to the factory defaults by using the reset button, first remove the switch from the IRF fabric.

9 Cooling system

To dissipate heat timely and enhance system stability, the switch uses a high-performance cooling system. Consider the site ventilation design when you plan the installation site for the switch.

The switch uses removable fan trays and provides airflow from the port side to the power supply side or from the power supply side to the port side by using different types of fan trays. You must install both fan trays of the same model for the switch. [Table9-1](#) describes the fan trays available for the switch.

Table9-1 Fan trays available for the switch

Switch model	Fan tray model	Airflow direction
- S5590-28T8XC-HI - S5590-48T4XC-HI - S5590-28S8XC-HI - S5590-48S4XC-HI - S5590-28T8XC-EI - S5590-48T4XC-EI - S5590-28S8XC-EI - S5590-48S4XC-EI - S5590-28P8XC-EI - S5590-48P6XC-EI - S5590-24X4YC-EI - S5590-48TS4X2QC-EI - S5590-8N24NS6X-EI - S5590-48NS6X-EI	LSPM1FANSA-SN	From the power supply side to the port side
- S5590-24UXM4YC-EI - S5590-48UXM4YC-EI - S5590-16UN16UM4YC-EI - S5590-32UN4X4Y2CC-EI - S5590-32UN16UM4YC-EI - S5590-48UM4YC-EI - S5590-48UN4Y2CC-EI	LSPM1FANSB-SN	From the port side to the power supply side

Figure9-2 Airflow direction for LSPM1FANSA-SN (S5590-28P8XC-EI)

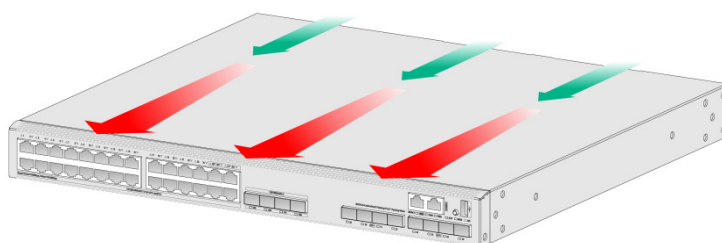


Figure9-3 Airflow direction for LSPM1FANSB-SN (S5590-28P8XC-EI)

