H3C S1850-X & S1850V2-X & S1850V2-EI Switch Series
Hardware Information and Specifications

New H3C Technologies Co., Ltd.
http://www.h3c.com

Preface

H3C S1850-X & S1850V2-X & S1850V2-EI Switch Series Hardware Information and Specifications describes product models, technical specifications, ports,and LEDs of the S1850V2-EI switches.

This preface includes the following topics about the documentation:

- Audience.
- Conventions.
- Documentation feedback.

Audience

This documentation is intended for:

- Network planners.
- Field technical support and servicing engineers.
- Network administrators working with the switches.

Conventions

The following information describes the conventions used in the documentation.

Command conventions

Convention	Description
Boldface	**Bold** text represents commands and keywords that you enter literally as shown.
Italic	*Italic* 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**.

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.
① **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.

Network topology icons

Convention	Description
	Represents a generic network device, such as a router, switch, or firewall.
	Represents a routing-capable device, such as a router or Layer 3 switch.
	Represents a generic switch, such as a Layer 2 or Layer 3 switch, or a router that supports Layer 2 forwarding and other Layer 2 features.
	Represents an access controller, a unified wired-WLAN module, or the access controller engine on a unified wired-WLAN switch.
	Represents an access point.
	Represents a wireless terminator unit.
	Represents a wireless terminator.
	Represents a mesh access point.
	Represents omnidirectional signals.
	Represents directional signals.
	Represents a security product, such as a firewall, UTM, multiservice security gateway, or load balancing device.
	Represents a security module, such as a firewall, load balancing, NetStream, SSL VPN, IPS, or ACG module.

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 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.

Contents

1 Product models and technical specifications

Product models

This document is applicable to the following Ethernet switches.

Product series	Product model	Product code (PID)
S1850-X switch series	S1850-28X	LS-1850-28X
	S1850-52X	LS-1850-52X
	S1850-28X-PWR	LS-1850-28X-PWR
	S1850-52X-PWR	LS-1850-52X-PWR
S1850V2-X switch series	S1850V2-28X	LS-1850V2-28X LS-1850V2-28X-GL
	S1850V2-52X	LS-1850V2-52X LS-1850V2-52X-GL
	S1850V2-28X-HPWR	LS-1850V2-28X-HPWR LS-1850V2-28X-HPWR-GL
	S1850V2-52X-PWR	LS-1850V2-52X-PWR LS-1850V2-52X-PWR-GL
S1850V2-EI switch series	S1850V2-52P-EI	LS-1850V2-52P-EI LS-1850V2-52P-EI-GL
	S1850V2-28P-EI	LS-1850V2-28P-EI LS-1850V2-28P-EI-GL
	S1850V2-28P-HPWR-EI	LS-1850V2-28P-HPWR-EI LS-1850V2-28P-HPWR-EI-GL
	S1850V2-9P-EI	LS-1850V2-9P-EI
	S1850V2-10P-EI	LS-1850V2-10P-EI LS-1850V2-10P-EI-GL
	S1850V2-10P-PWR-EI	LS-1850V2-10P-PWR-EI
	S1850V2-10P-HPWR-EI	LS-1850V2-10P-HPWR-EI-GL

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.

Technical specifications

S1850-X switch series

Table1-1 Technical specifications of S1850-X non-PoE switch models

Item	S1850-28X	S1850-52X
Dimensions (H × W × D)	43.6 × 440 × 160 mm (1.72 × 17.32 × 6.30 in)	43.6 × 440 × 230 mm (1.72 × 17.32 × 9.06 in)
Weight	≤ 2.5 kg (5.51 lb)	≤ 3.5 kg (7.72 lb)
Console port	• 1 × serial console port • 1 × micro USB console port If you connect each of the console ports to a configuration terminal, only the micro USB console port takes effect.	
10/100/1000BASE-T autosensing Ethernet port	24	48
SFP port	2	2
SFP+ port	2	2
Input voltage	• Rated voltage range: 100 VAC to 240 VAC @ 50 or 60 Hz • Max voltage range: 90 VAC to 264 VAC @ 47 to 63 Hz	
Power consumption (static)	9 W	19 W
Power consumption (fully loaded)	24 W	44 W
Chassis leakage current compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	
Melting current of power supply fuse	2 A/250 V	3.15 A/250 V
Cooling system	The device uses fixed fan trays. It draws cool air from the chassis left side, right side, and port side and exhausts heated air from the power supply side.	The device uses fixed fan trays. It draws cool air from the chassis left side and right side and exhausts heated air from the power supply side.
Operating temperature	–5°C to +45°C (23°F to 113°F)	
Operating humidity	5% to 95%, noncondensing	
Fire resistance compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	

Table1-2 Technical specifications of S1850-X PoE switch models

Item	S1850-28X-PWR	S1850-52X-PWR
Dimensions (H × W × D)	43.6 × 440 × 260 mm (1.72 × 17.32 × 10.24 in)	43.6 × 440 × 400 mm (1.72 × 17.32 × 15.75 in)

Item	S1850-28X-PWR	S1850-52X-PWR
Weight	≤ 4 kg (8.82 lb)	≤ 6 kg (13.23 lb)
Console port	• 1 × serial console port • 1 × micro USB console port If you connect each of the console ports to a configuration terminal, only the micro USB console port takes effect.	
10/100/1000BASE-T autosensing Ethernet port	24	48
SFP port	2	2
SFP+ port	2	2

Input voltage	• AC
	   ○ Rated voltage range: 100 VAC to 240 VAC @ 50 or 60 Hz
	   ○ Max voltage range: 90 VAC to 264 VAC @ 47 to 63 Hz
	• DC (supported only on the S1850-52X-PWR switch)
	   ○ Rated voltage range: –54 to –57 VDC
	   ○ Max voltage range:
	     Single DC input: –44 to –60 VDC
	     AC+DC input: –54 to –57 VDC
	You can only use an H3C RPS1600-A power supply to supply DC power to the device.	

Max PoE power per port	30 W	30 W
Total PoE power	185 W	AC: 370 W DC: 740 W
Static power consumption	15 W	AC: 32 W DC: 26 W
Max power consumption (including PoE power output)	219 W	AC: 473 W DC: 820 W
Chassis leakage current compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	
Melting current of power supply fuse	10 A/250 V	15 A/250 V
Cooling system	The device uses fixed fan trays. It draws cool air from the chassis left side and port side and exhausts heated air from the right side.	The device uses fixed fan trays. It draws cool air from the chassis left side and exhausts heated air from the chassis right side.
Operating temperature	–5°C to +45°C (23°F to 113°F)	
Operating humidity	5% to 95%, noncondensing	
Fire resistance compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	

S1850V2-X switch series

Table1-3 Technical specifications of S1850V2-X non-PoE switch models

Item	S1850V2-28X	S1850V2-52X
Dimensions (H × W × D)	43.6 × 440 × 160 mm (1.72 × 17.32 × 6.30 in)	43.6 × 440 × 230 mm (1.72 × 17.32 × 9.06 in)
Weight	≤ 2.5 kg (5.5115 lb)	≤ 3.5 kg (7.716 lb)
Console port	1 × serial console port	
10/100/1000BASE-T autosensing Ethernet port	24	48
SFP+ port	4	4
Input voltage	• Rated voltage range: 100 VAC to 240 VAC @ 50 or 60 Hz • Max voltage range: 90 VAC to 264 VAC @ 47 to 63 Hz	
Power consumption (static)	10 W	19 W
Power consumption (fully loaded)	24 W	44 W
Chassis leakage current compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	
Melting current of power supply fuse	2 A/250 V	3.15 A/250 V
Cooling system	Natural cooling without fan trays	The device uses fixed fan trays. It draws cool air from the chassis left side and right side and exhausts heated air from the power supply side.
Operating temperature	–5°C to +45°C (23°F to 113°F)	
Operating humidity	5% to 95%, noncondensing	
Fire resistance compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	

Table1-4 Technical specifications of S1850V2-X PoE switch models

Item	S1850V2-28X-HPWR	S1850V2-52X-PWR
Dimensions (H × W × D)	43.6 × 440 × 260 mm (1.72 × 17.32 × 10.24 in)	43.6 × 440 × 400 mm (1.72 × 17.32 × 15.75 in)
Weight	≤ 4.5 kg (9.92 lb)	≤ 6 kg (13.23 lb)
Console port	1 × serial console port	
10/100/1000BASE-T autosensing Ethernet port	24	48
SFP+ port	4	4

Item	S1850V2-28X-HPWR	S1850V2-52X-PWR
Input voltage	• Rated voltage range: 100 VAC to 240 VAC @ 50 or 60 Hz • Max voltage range: 90 VAC to 264 VAC @ 47 to 63 Hz	
Max PoE power per port	30 W	30 W
Total PoE power	370 W	370 W
Static power consumption	19 W	36 W
Max power consumption (including PoE power output)	448 W	467 W
Chassis leakage current compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	
Melting current of power supply fuse	10 A/250 V	15 A/250 V
Cooling system	The device uses fixed fan trays. It draws cool air from the chassis left side and port side and exhausts heated air from the chassis right side.	The device uses fixed fan trays. It draws cool air from the chassis left side and exhausts heated air from the chassis right side.
Operating temperature	–5°C to +45°C (23°F to 113°F)	
Operating humidity	5% to 95%, noncondensing	
Fire resistance compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	

S1850V2-EI switch series

Table1-5 Technical specifications of S1850V2-EI non-PoE switch models (1)

Item	S1850V2-10P-EI	S1850V2-9P-EI
Dimensions (H × W × D)	43.6 × 266 × 161 mm (1.72 × 10.47 × 6.34 in)	43.6 × 266 × 161 mm (1.72 × 10.47 × 6.34 in)
Weight	≤ 1.5 kg (3.31 lb)	≤ 1.5 kg (3.31 lb)
Console port	1 × serial console port	1 × serial console port
10/100/1000BASE-T autosensing Ethernet port	8	8
SFP port	2	1
Input voltage	• Rated voltage range: 100 VAC to 240 VAC @ 50 or 60 Hz • Max voltage range: 90 VAC to 264 VAC @ 47 to 63 Hz	
Power consumption (static)	8 W	8 W
Power consumption (fully	14 W	14 W

Item	S1850V2-10P-EI	S1850V2-9P-EI
loaded)		
Chassis leakage current compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	
Melting current of power supply fuse	2 A/250 V	2 A/250 V
Cooling system	Natural cooling without fan trays	Natural cooling without fan trays
Operating temperature	−5°C to +45°C (23°F to 113°F)	
Operating humidity	5% to 95%, noncondensing	
Fire resistance compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	

Table1-6 Technical specifications of S1850V2-EI non-PoE switch models (2)

Item	S1850V2-28P-EI	S1850V2-52P-EI
Dimensions (H × W × D)	43.6 × 440 × 160 mm (1.72 × 17.32 × 6.30 in)	43.6 × 440 × 230 mm (1.72 × 17.32 × 9.06 in)
Weight	≤ 2.5 kg (5.51 lb)	≤ 3.5 kg (7.72 lb)
Console port	1 × serial console port	1 × serial console port
10/100/1000BASE-T autosensing Ethernet port	24	48
SFP port	4	4
Input voltage	• Rated voltage range: 100 VAC to 240 VAC @ 50 or 60 Hz • Max voltage range: 90 VAC to 264 VAC @ 47 to 63 Hz	
Power consumption (static)	9 W	18 W
Power consumption (fully loaded)	23 W	41 W
Chassis leakage current compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	
Melting current of power supply fuse	2 A/250 V	3.15 A/250 V
Cooling system	Natural cooling without fan trays	Using fixed fan trays to draw ambient air in from the left side and right side and exhaust heated air from the power supply side.
Operating temperature	−5°C to +45°C (23°F to 113°F)	
Operating humidity	5% to 95%, noncondensing	
Fire resistance compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1	

**Table1-7 Technical specifications of S1850V2-EI PoE switch models**

| Item	S1850V2-10P-HPWR-EI	S1850V2-28P-HPWR-EI	S1850V2-10P-PWR-EI
Dimensions (H × W × D)	43.6 × 330 × 230 mm (1.72 × 12.99 × 9.06 in)	43.6 × 440 × 260 mm (1.72 × 17.32 ×10.24 in)	43.6 × 330 × 230 mm (1.72 × 12.99 × 9.06 in)
Weight	≤ 3 kg (6.61 lb)	≤ 4.5 kg (9.92 lb)	≤ 3 kg (6.61 lb)
Console port	1 × serial console port	1 × serial console port	1 × serial console port
10/100/1000BASE-T autosensing Ethernet port	8	24	8
SFP port	2	4	2
Input voltage	• Rated voltage range: 100 VAC to 240 VAC @ 50 or 60 Hz • Max voltage range: 90 VAC to 264 VAC @ 47 to 63 Hz		
Maximum PoE power per port	30 W	30 W	30 W
Total PoE power	125 W	370 W	65 W
Power consumption (static)	10 W	19 W	8 W
Power consumption (fully loaded, including PoE output)	155 W	448 W	90 W
Chassis leakage current compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1		
Melting current of power supply fuse	6.3 A/250 V	10 A/250 V	6.3 A/250 V
Cooling system	Natural cooling without fan trays	The device uses fixed fan trays. It draws cool air in from the chassis left side and port side and exhaust heated air from the chassis right side.	Natural cooling without fan trays
Operating temperature	–5°C to +45°C (23°F to 113°F) **NOTE:** The maximum allowed temperature is decreased by 0.33°C (32.59°F) for every increase of 100 m (328.08 ft) above 0 m (0 ft) in altitude.		
Operating humidity	5% to 95%, noncondensing		
Fire resistance compliance	UL 62368-1/EN 62368-1/IEC 62368-1/UL 60950-1/IEC 60950-1/GB4943.1		

2 Chassis views

S1850-X switch series

S1850-28X

Figure2-1 Front panel
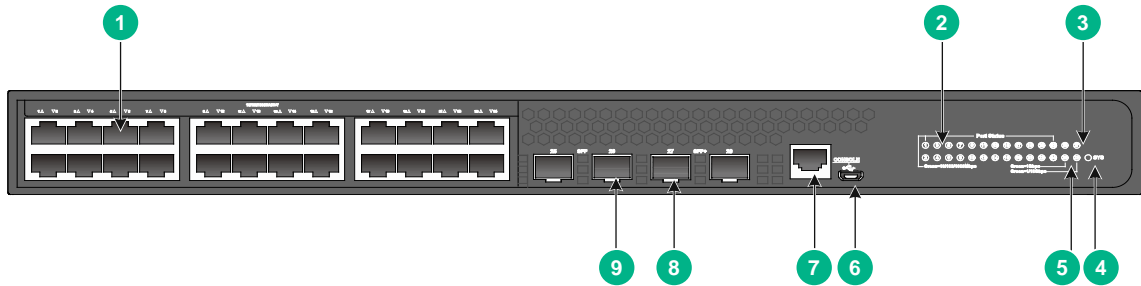
(1) 10/100/1000BASE-T autosensing Ethernet port

(2) 10/100/1000BASE-T autosensing Ethernet port LED

(3) SFP+ port LED	(4) System status LED (SYS)
(5) SFP port LED	(6) Micro USB console port
(7) Console port (CONSOLE)	(8) SFP+ port
(9) SFP port	

Figure2-2 Rear panel
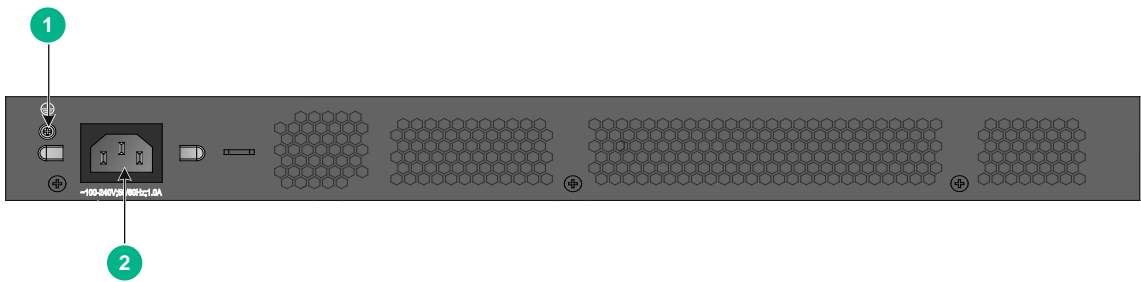
(1) Grounding screw	(2) AC-input power receptacle

S1850-52X

Figure2-3 Front panel
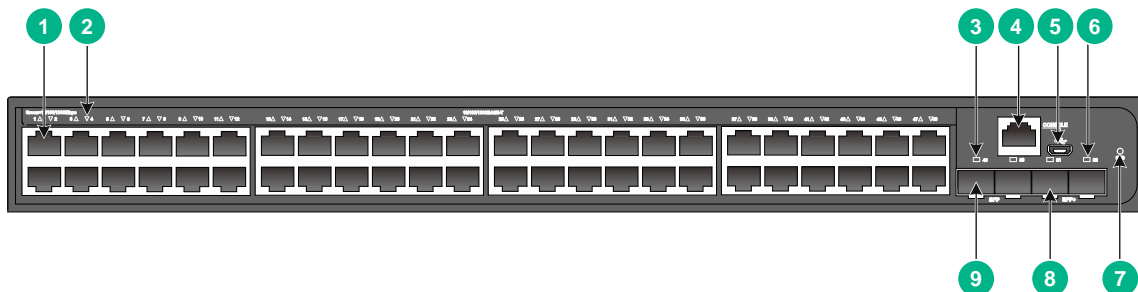
(1) 10/100/1000BASE-T autosensing Ethernet port

(2) 10/100/1000BASE-T autosensing Ethernet port LED

(3) SFP port LED	(4) Console port (CONSOLE)
(5) Micro USB console port	(6) SFP+ port LED
(7) System status LED (SYS)	(8) SFP+ port
(9) SFP port	

Figure2-4 Rear panel
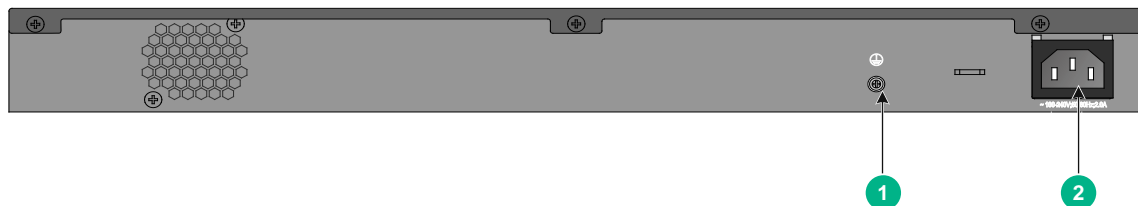
(1) Grounding screw	(2) AC-input power receptacle

S1850-28X-PWR

Figure2-5 Front panel
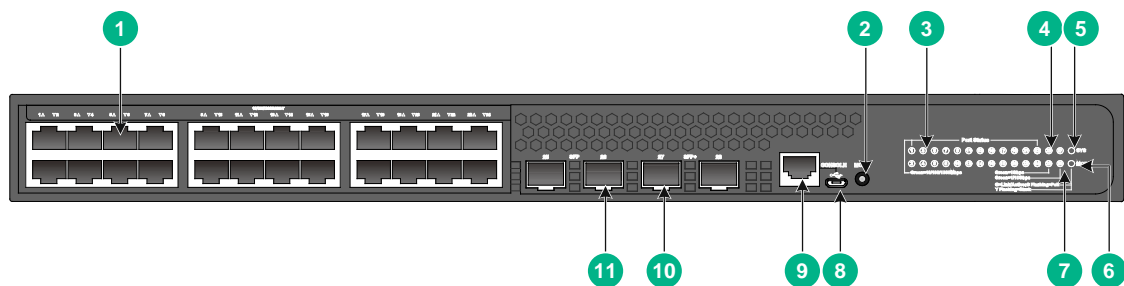
(1) 10/100/1000BASE-T autosensing Ethernet port	(2) Port LED mode switching button
(3) 10/100/1000BASE-T autosensing Ethernet port LED	(4) SFP port LED
(5) System status LED (SYS)	(6) Mode LED (MODE)
(7) SFP+ port LED	(8) Micro USB console port
(9) Console port (CONSOLE)	(10) SFP+ port
(11) SFP port	

Figure2-6 Rear panel

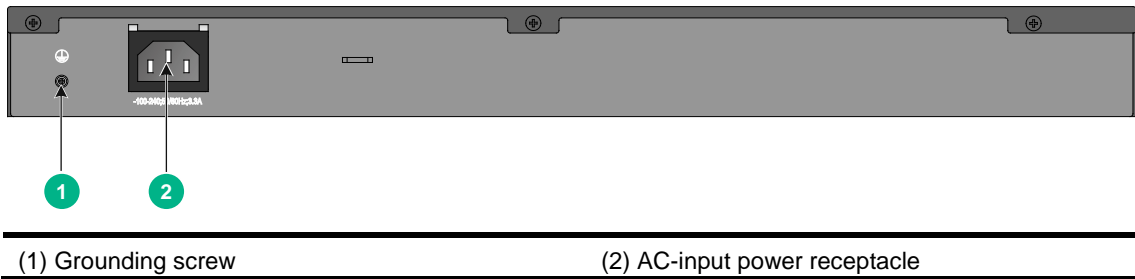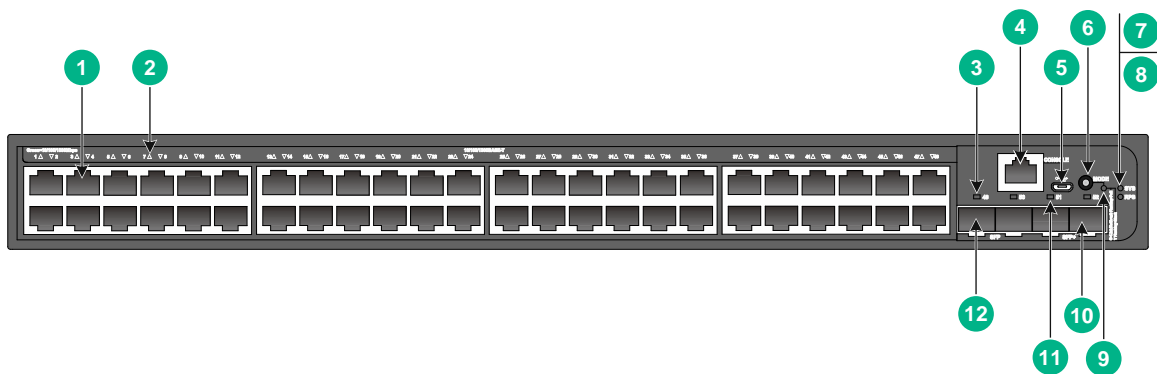| (1) Grounding screw	(2) AC-input power receptacle

S1850-52X-PWR

Figure2-7 Front panel

(1) 10/100/1000BASE-T autosensing Ethernet port	
(2) 10/100/1000BASE-T autosensing Ethernet port LED	
(3) SFP port LED	(4) Console port (CONSOLE)
(5) Micro USB console port	(6) Port LED mode switching button
(7) System status LED (SYS)	(8) RPS power supply status LED (RPS)
(9) Mode LED (MODE)	(10) SFP+ port
(11) SFP+ port LED	(12) SFP port

Figure2-8 Rear panel

(1) Grounding screw	(2) AC-input power receptacle
(3) DC-input power receptacle	
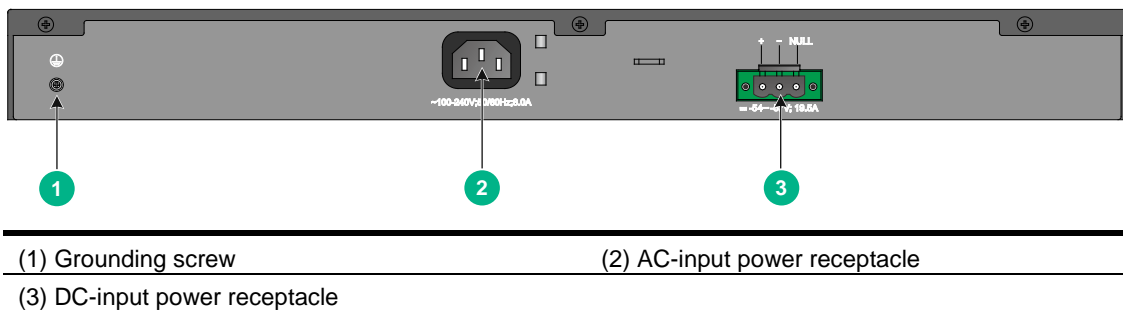
S1850V2-X switch series

S1850V2-28X

Figure2-9 Front panel

(1) 10/100/1000BASE-T autosensing Ethernet port	
(2) 10/100/1000BASE-T autosensing Ethernet port LED	
(3) SFP+ port LED	(4) System status LED (SYS)
(5) Console port (CONSOLE)	(6) SFP+ port

Figure2-10 Rear panel
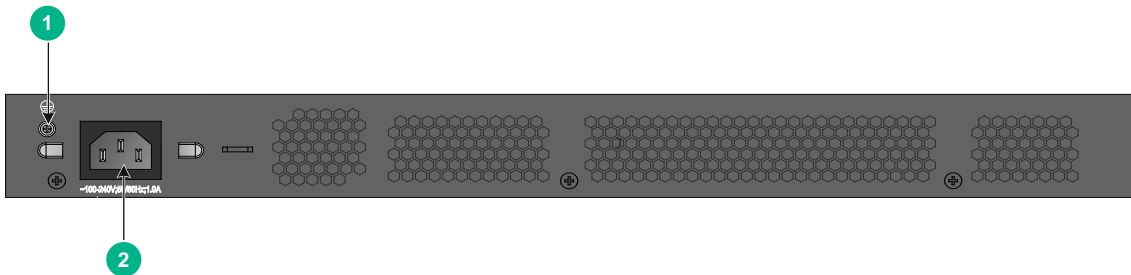
(1) Grounding screw	(2) AC-input power receptacle

S1850V2-52X

Figure2-11 Front panel

(1) 10/100/1000BASE-T autosensing Ethernet port	
(2) 10/100/1000BASE-T autosensing Ethernet port LED	
(3) Console port (CONSOLE)	(4) SFP+ port LED
(5) System status LED (SYS)	(6) SFP+ port

Figure2-12 Rear panel
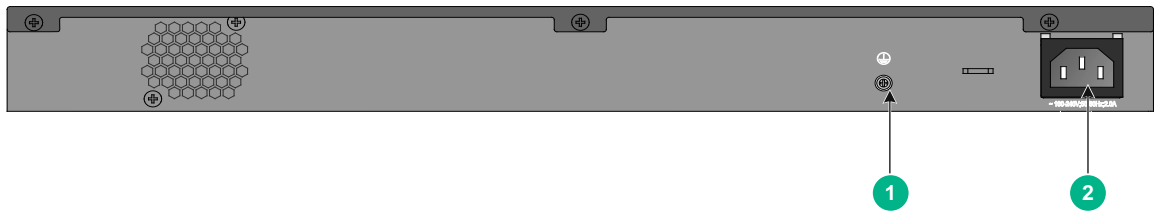
(1) Grounding screw	(2) AC-input power receptacle

S1850V2-28X-HPWR

Figure2-13 Front panel

(1) 10/100/1000BASE-T autosensing Ethernet port	(2) Port LED mode switching button
(3) 10/100/1000BASE-T autosensing Ethernet port LED	(4) SFP+ port LED
(5) System status LED (SYS)	(6) Mode LED (MODE)
(7) Console port (CONSOLE)	(8) SFP+ port

Figure2-14 Rear panel

(1) Grounding screw	(2) AC-input power receptacle

S1850V2-52X-PWR

Figure2-15 Front panel
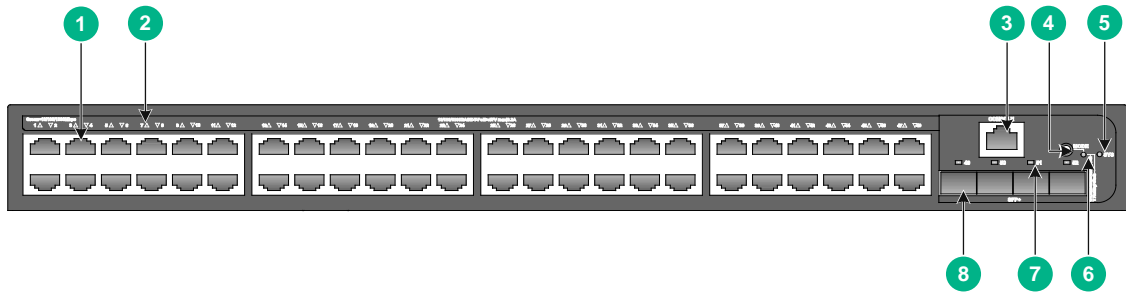
(1) 10/100/1000BASE-T autosensing Ethernet port	
(2) 10/100/1000BASE-T autosensing Ethernet port LED	
(3) Console port (CONSOLE)	(4) Port LED mode switching button
(5) System status LED (SYS)	(6) Mode LED (MODE)
(7) SFP+ port LED	(8) SFP+ port

Figure2-16 Rear panel

(1) Grounding screw	(2) AC-input power receptacle

S1850V2-EI switch series

S1850V2-28P-EI

Figure2-17 Front panel
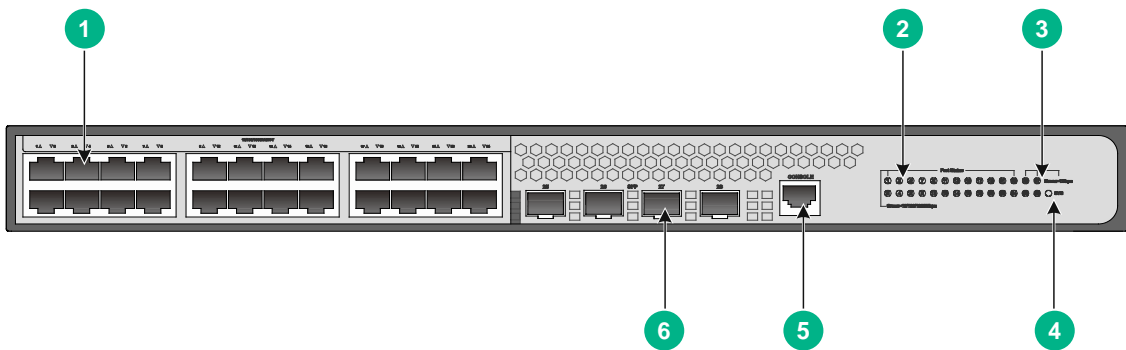
(1) 10/100/1000BASE-T autosensing Ethernet port	
(2) 10/100/1000BASE-T autosensing Ethernet port LED	
(3) SFP port LED	(4) System status LED (SYS)

(5) Console port (CONSOLE)	(6) SFP port

Figure2-18 Rear panel

(1) Grounding screw	(2) AC-input power receptacle

S1850V2-52P-EI

Figure2-19 Front panel
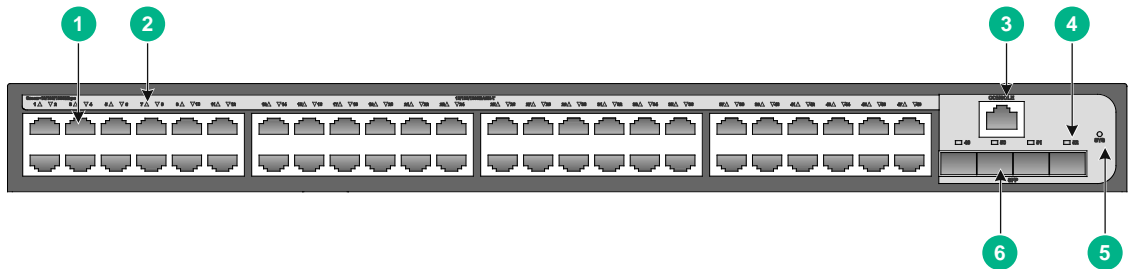
(1) 10/100/1000BASE-T autosensing Ethernet port	
(2) 10/100/1000BASE-T autosensing Ethernet port LED	
(3) Console port (CONSOLE)	(4) SFP port LED
(5) System status LED (SYS)	(6) SFP port

Figure2-20 Rear panel
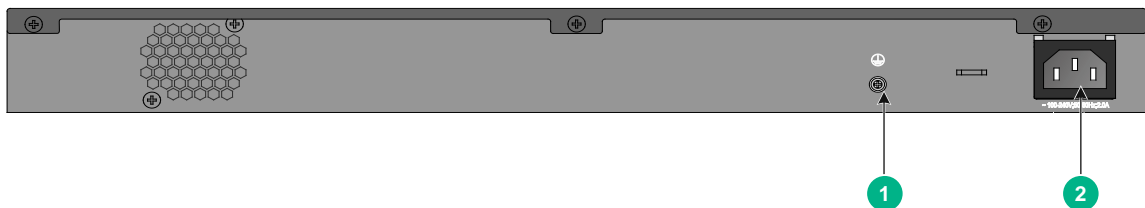
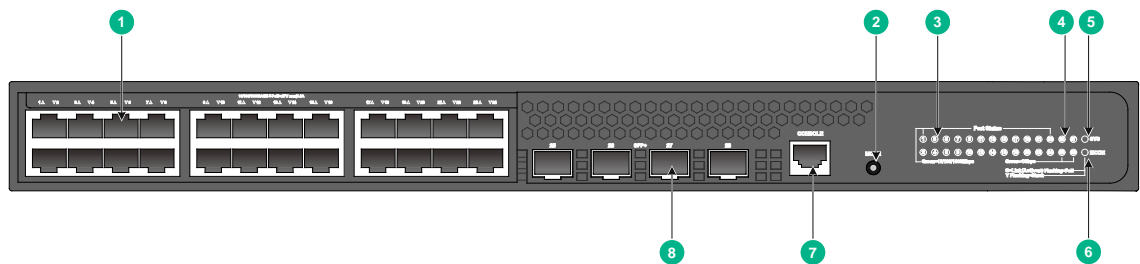| (1) Grounding screw	(2) AC-input power receptacle

S1850V2-9P-EI

Figure2-21 Front panel
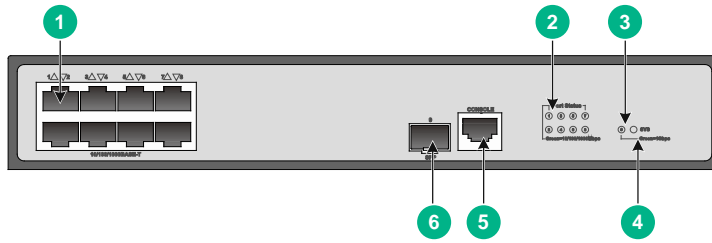
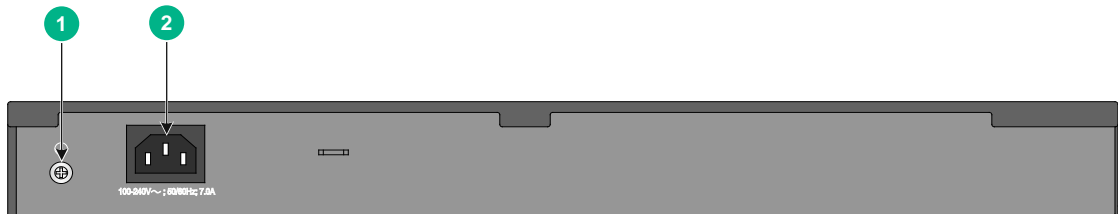| (1) 10/100/1000BASE-T autosensing Ethernet port	
(2) 10/100/1000BASE-T autosensing Ethernet port LED	
(3) SFP port LED	(4) System status LED (SYS)
(5) Console port (CONSOLE)	(6) SFP port

Figure2-22 Rear panel

(1) Grounding screw	(2) AC-input power receptacle

S1850V2-10P-EI

Figure2-23 Front panel

(1) 10/100/1000BASE-T autosensing Ethernet port	
(2) 10/100/1000BASE-T autosensing Ethernet port LED	
(3) SFP port LED	(4) System status LED (SYS)
(5) Console port (CONSOLE)	(6) SFP port

Figure2-24 Rear panel
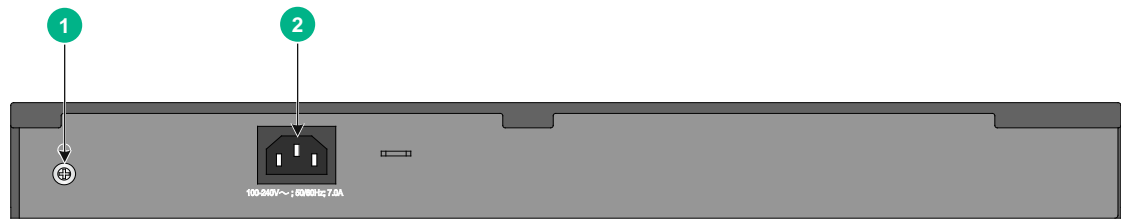

(1) Grounding screw	(2) AC-input power receptacle

S1850V2-10P-HPWR-EI

Figure2-25 Front panel
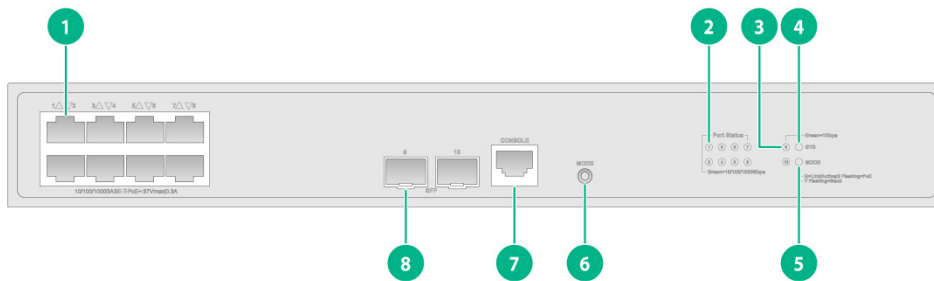
(1) 10/100/1000BASE-T autosensing Ethernet port	
(2) 10/100/1000BASE-T autosensing Ethernet port LED	
(3) SFP port LED	(4) System status LED (SYS)
(5) Mode LED (MODE)	(6) Port LED mode switching button
(7) Console port (CONSOLE)	(8) SFP port

Figure2-26 Rear panel
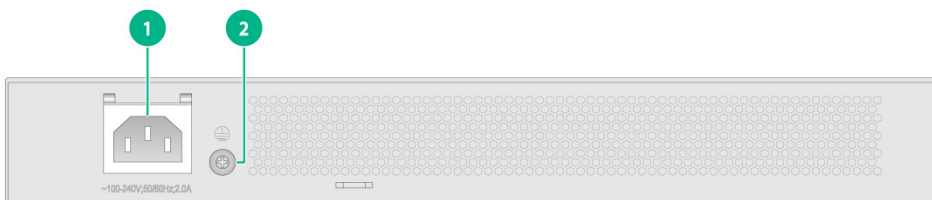
(1) AC-input power receptacle	(2) Grounding screw

S1850V2-28P-HPWR-EI

Figure2-27 Front panel
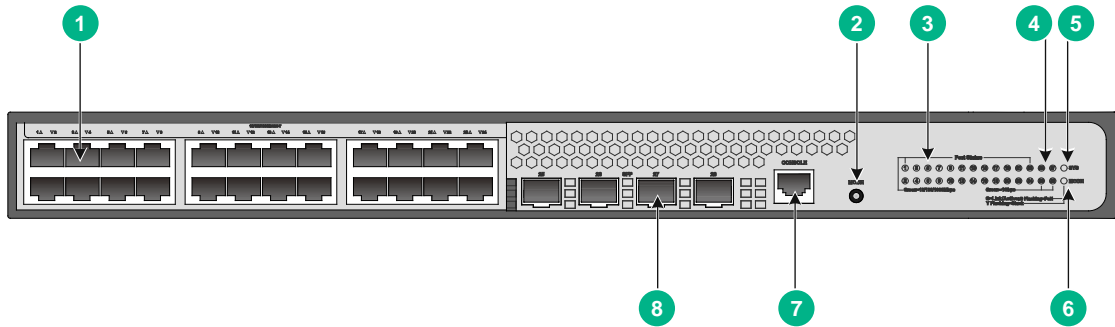
(1) 10/100/1000BASE-T autosensing Ethernet port	(2) Port LED mode switching button
(3) 10/100/1000BASE-T autosensing Ethernet port LED	(4) SFP port LED
(5) System status LED (SYS)	(6) Mode LED (MODE)
(7) Console port (CONSOLE)	(8) SFP port

Figure2-28 Rear panel
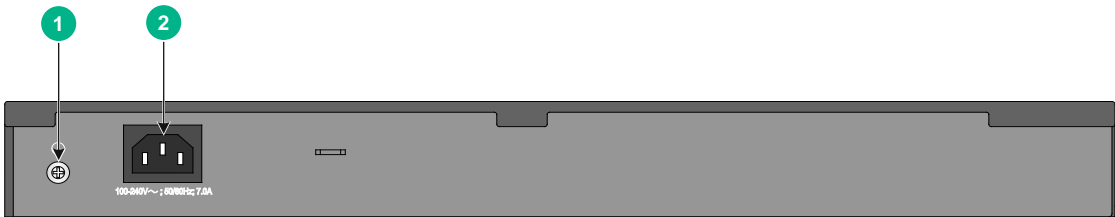
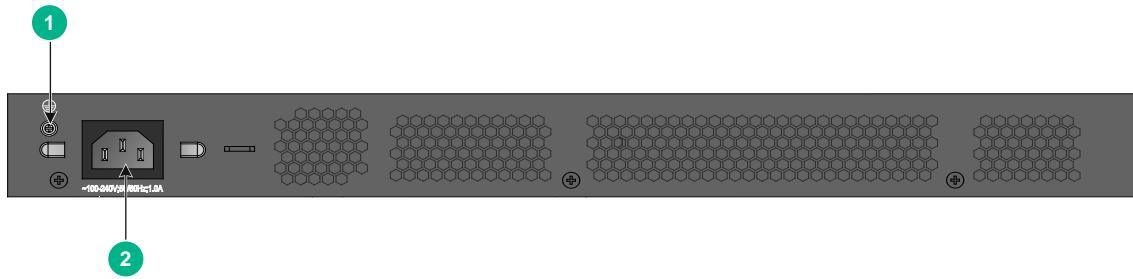|	
(1) Grounding screw	(2) AC-input power receptacle

S1850V2-10P-PWR-EI

Figure2-29 Front panel

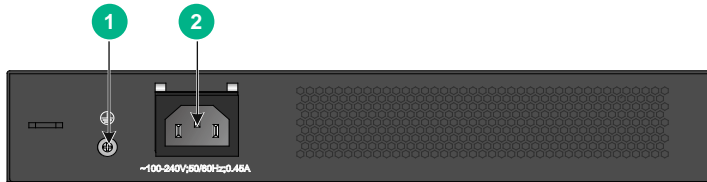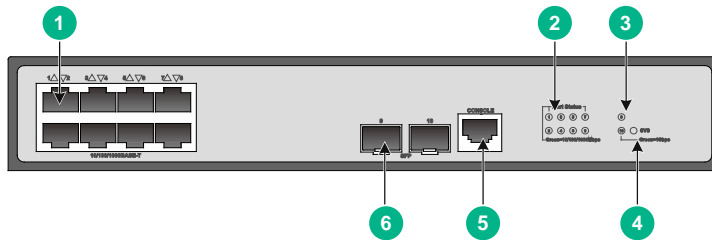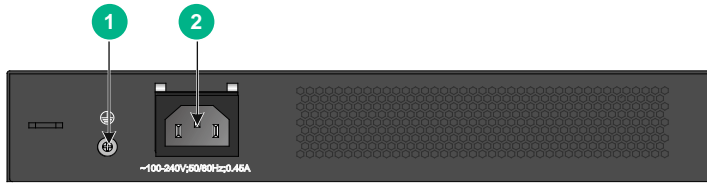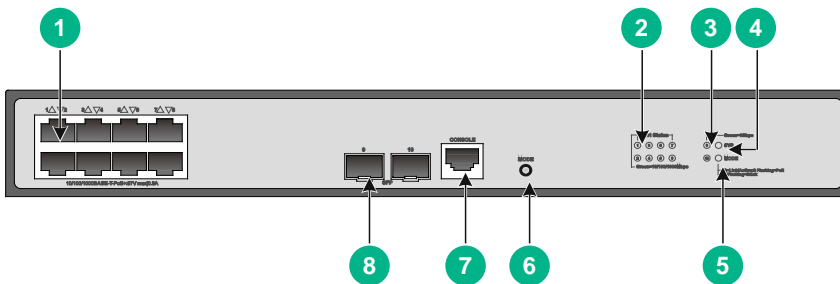|	
(1) 10/100/1000BASE-T autosensing Ethernet port	
(2) 10/100/1000BASE-T autosensing Ethernet port LED	
(3) SFP port LED	(4) System status LED (SYS)
(5) Mode LED (MODE)	(6) Port LED mode switching button
(7) Console port (CONSOLE)	(8) SFP port

Figure2-30 Rear panel

(1) AC-input power receptacle	(2) Grounding screw

3 Ports and LEDs

Ports

Console port

Table3-1 Console port specifications

Item	Serial console port	Micro USB console port
Connector type	RJ-45	USB micro-type B
Compliant standard	EIA/TIA-232	USB 2.0
Transmission baud rate	9600 bps (default) to 115200 bps	9600 bps (default) to 115200 bps
Services	• Provides connection to an ASCII terminal. • Provides connection to a serial port of a local PC running terminal emulation program.	• Provides connection to an ASCII terminal. • Provides connection to a USB port of a local PC running terminal emulation program.
Available switch models	All switches	S1850-X switch series

(!) **IMPORTANT:**

If you connect both the serial console port and micro USB console port to a configuration terminal, only the micro USB console port takes effect.

10/100/1000BASE-T autosensing Ethernet port

Table3-2 10/100/1000BASE-T autosensing Ethernet port specifications

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

Item	Specification
Max transmission distance	100 m (328.08 ft)
Transmission medium	Category-5 (or above) twisted pair cable
Compatible standards	• IEEE 802.3i • IEEE 802.3u • IEEE 802.3ab
Available switch models	All switches

SFP port

Table3-3 SFP port specifications

Item	Specification
Compatible transceiver modules and cables	GE SFP transceiver modules and cables in Table3-4.
Compatible device models	S1850-X switch series and S1850V2-EI switch series.
Restrictions and guidelines	• To use transceiver modules with a maximum transmission distance greater than or equal to 80 km (49.71 miles) on an S1850V2-9P-EI, S1850V2-10P-EI, S1850V2-10P-PWR-EI, S1850V2-10P-HPWR-EI, or S1850V2-28P-EI switch, make sure the ambient temperature does not exceed 40°C (104°F). • Only the S1850V2-10P-HPWR-EI switch supports the SFP-GE/FE-LX10-SM1310 transceiver module. • The S1850V2-10P-HPWR-EI switch does not support the SFP-GE-SX-MM850-S or SFP-GE-LX-SM1310-S transceiver module.

Table3-4 GE SFP transceiver modules and cables

GE SFP transceiver module/cable	Central wavelength	Connector	Cable specifications	Modal bandwidth (MHz*km)	Max transmission distance
Copper SFP transceiver module					
SFP-GE-T	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.09 ft)
SFP-GE-T-D	N/A	RJ-45	Twisted pair cable	N/A	100 m (328.09 ft)
Fiber SFP transceiver module					
SFP-GE-SX-MM850-A	850 nm	LC	50/125 µm multi-mode optical fiber	500	550 m (1804.46 ft)
				400	500 m (1640.42 ft)
			62.5/125 µm multi-mode optical fiber	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-SX-MM850-D	850 nm	LC	50/125 µm multi-mode optical fiber	500	550 m (1804.46 ft)
				400	500 m (1640.42

GE SFP transceiver module/cable	Central wavelength	Connector	Cable specifications	Modal bandwidth (MHz*km)	Max transmission distance
					ft)
			62.5/125 μm multi-mode optical fiber	200	275 m (902.23 ft)
				160	220 m (721.78 ft)
SFP-GE-SX-MM850-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-SM1310-A	1310 nm	LC	9/125 μm single-mode optical fiber	N/A	10 km (6.21 miles)
			50/125 μm multi-mode optical fiber	500/400	550 m (1804.46 ft)
			62.5/125 μm multi-mode optical fiber	500	550 m (1804.46 ft)
SFP-GE-LX-SM1310-D	1310 nm	LC	9/125 μm single-mode optical fiber	N/A	10 km (6.21 miles)
SFP-GE/FE-LX10-SM1310	1310 nm	LC	9/125 μm single-mode optical fiber	N/A	10 km (6.21 miles)
SFP-GE-LX-SM1310-S	1310 nm	LC	9/125 μm single-mode optical fiber	N/A	10 km (6.21 miles)
SFP-GE-LH40-SM1310	1310 nm	LC	9/125 μm single-mode optical fiber	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1310-D	1310 nm	LC	9/125 μm single-mode optical fiber	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1550	1550 nm	LC	9/125 μm single-mode optical fiber	N/A	40 km (24.86 miles)
SFP-GE-LH80-SM1550	1550 nm	LC	9/125 μm single-mode optical fiber	N/A	80 km (49.71 miles)
SFP-GE-LH80-SM1550-D	1550 nm	LC	9/125 μm single-mode optical fiber	N/A	80 km (49.71 miles)
SFP-GE-LH100-SM1550	1550 nm	LC	9/125 μm single-mode optical fiber	N/A	100 km (62.14 miles)
SFP-GE-LX-SM1310-BIDI	TX: 1310 nm	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)

GE SFP transceiver module/cable	Central wavelength	Connector	Cable specifications	Modal bandwidth (MHz*km)	Max transmission distance
	RX: 1490 nm				
SFP-GE-LX-SM1490-BIDI	TX: 1490 nm RX: 1310 nm	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-GE-LH40-SM1310-BIDI	TX: 1310 nm RX: 1550 nm	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH40-SM1550-BIDI	TX: 1550 nm RX: 1310 nm	LC	Single-mode, 9/125	N/A	40 km (24.86 miles)
SFP-GE-LH70-SM1490-BIDI	TX: 1490 nm RX: 1550 nm	LC	Single-mode, 9/125	N/A	70 mm (2.76 in)
SFP-GE-LH70-SM1550-BIDI	TX: 1550 nm RX: 1490 nm	LC	Single-mode, 9/125	N/A	70 mm (2.76 in)
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, the SFP-GE-LH40-SM1310-BIDI and SFP-GE-LH40-SM1550-BIDI transceiver modules, and the SFP-GE-LH70-SM1490-BIDI and SFP-GE-LH70-SM1550-BIDI transceiver modules must be used in pairs. For example, if one end uses an SFP-GE-LX-SM1310-BIDI transceiver module, the other end must use an SFP-GE-LX-SM1490-BIDI transceiver module.

NOTE:

- As a best practice, use H3C SFP transceiver modules and cables for the switch.

- The H3C SFP transceiver modules and cables available for the SFP ports are subject to change over time. For the most up-to-date list of H3C SFP transceiver modules and cables available for the SFP ports, contact your H3C sales representative or technical support engineer.

- For the specifications of the H3C SFP transceiver modules and cables, see *H3C Transceiver Modules User Guide*.

SFP+ port

Table3-5 SFP+ port specifications

Item	Specification
Compatible transceiver modules and cables	• GE SFP transceiver modules and cables in Table3-4 • 10-GE SFP+ transceiver modules and cables in Table3-6, Table3-7, and Table3-8
Compatible devices	S1850-X switch series and S1850V2-EI switch series.

Table3-6 10-GE SFP+ transceiver modules available for the SFP+ ports

10-GE SFP+ transceiver module	Central wavelength (nm)	Connector	Fiber diameter (μm)	Modal bandwidth (MHz × km)	Max transmission distance
SFP-XG-SX-MM850-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-MM850-E	850 nm	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-MM850-S	850 nm	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-SM1310-D	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM1310-E	1310	LC	Single-mode, 9/125	N/A	10 km (6.21 miles)
SFP-XG-LX-SM1310-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-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-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)

Table3-7 SFP+ copper cables available for the SFP+ ports

SFP+ copper cable	Cable length
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)

Table3-8 SFP+ fiber cables available for the SFP+ ports

SFP+ fiber cable	Cable length
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)

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*.

Figure3-1 SFP+ cable

(1) Connector	(2) Pull latch
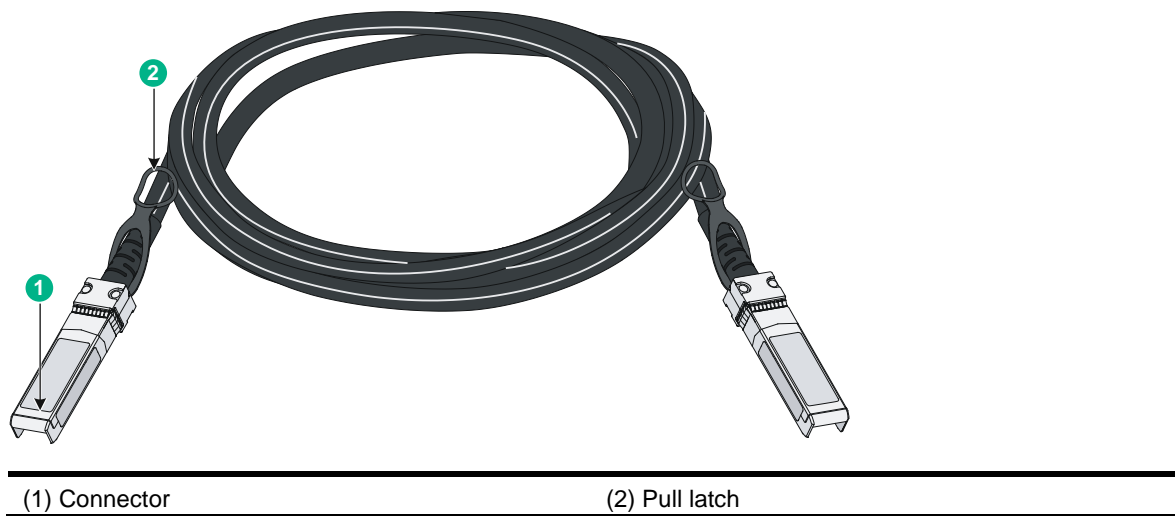
LEDs

System status LED

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

Table3-9 System status LED description

LED mark	Status	Description
SYS	Steady green	The switch has started up correctly.
	Flashing green	POST in progress.
	Steady red	The switch has failed POST or the switch is faulty.
	Off	The switch is powered off or has not started up correctly.

RPS power supply status LED

The S1850-52X-PWR switch supports power input from an RPS power supply. You can determine the RPS power supply operating status by observing the RPS power supply status LED.

Table3-10 RPS power supply status LED description

LED mark	Status	Description
RPS	Steady green	Normal AC power input and normal DC power input
	Steady yellow	Normal DC power input, abnormal or no AC power input.
	Off	Abnormal or no DC power input.

Mode LED (MODE)

Each PoE switch provides a mode LED (MODE). The mode LED works in conjunction with the Ethernet port LEDs to indicate the operating state of the Ethernet ports and the switch.

You can use the LED mode switching button to change the indication of the mode LED.

Table3-11 Description for the mode LED

LED mark	Status	Description
Mode LED (MODE)	Steady green	The Ethernet port LEDs are showing link state of the ports.
	Flashing green	The Ethernet port LEDs are showing the PoE status of the ports.

SFP/SFP+ port LED

Table3-12 SFP/SFP+ port LED description

Status	Description
Steady green	A link is present on the port.
Flashing green	The port is sending or receiving data.
Off	• No link is present on the port. • The mode LED is operating in PoE mode (available only for PoE switch models)

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

On a PoE switch, 10/100/1000BASE-T autosensing Ethernet port LEDs work in conjunction with the mode LED to indicate the operating state of the Ethernet ports and the switch from different aspects. Table3-13 describes the Ethernet port LEDs on a PoE switch.

Table3-14 describes the Ethernet port LEDs on a non-PoE switch.

Table3-13 Ethernet port LED description for PoE switch models

Mode LED status	Ethernet port LED status	Description
Steady green (Link/Active mode)	Steady green	A link is present on the port.
	Flashing green	The port is sending or receiving data.
	Off	No link is present on the port.
Flashing green (PoE mode)	Steady green	PoE power supply is normal.
	Flashing green (1 Hz)	• The maximum PoE power provided by the port fails to meet the power requirement of the PD. • PoE power supply overcurrent, overvoltage, or short-circuit occurs. • The remaining power of the switch fails to 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.

Table3-14 Ethernet port LED description for non-PoE switch models

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