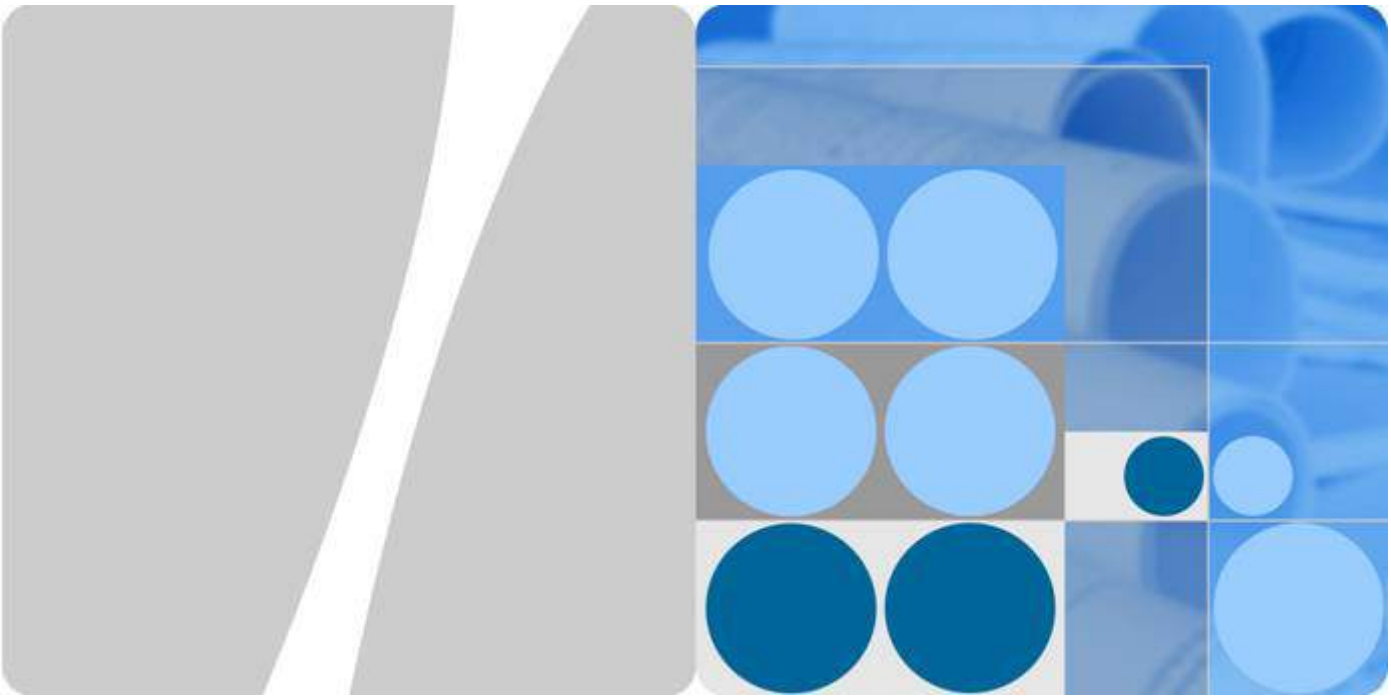

## S5700 Series Ethernet Switches

# Product Description

**Issue** 11

**Date** 2014-10-25

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# About This Document

## Intended Audience

This document describes the positioning, characteristics, architecture, link features, service features, application scenarios, operation and maintenance functions, and technical specifications of the switch.

This document helps you understand the characteristics and features of the switch.

This document is intended for:

- Network planning engineers
- Hardware installation engineers
- Commissioning engineers
- Data configuration engineers
- On-site maintenance engineers
- Network monitoring engineers
- System maintenance engineers

## Statement

The device provides the mirroring function for network monitoring and fault management, during which communication data may be collected. Huawei alone is unable to collect or save the content of users' communications. It is suggested that you activate the functions based on the applicable laws and regulations in terms of purpose and scope of usage. You are obligated to take considerable measures to ensure that the content of users' communications is fully protected when the content is being used and saved.

The device provides the NetStream function for network traffic statistics collection and advertisement, during which data of users may be used. You are obligated to take considerable measures, in compliance with the laws of the countries concerned and the user privacy policies of your company, to ensure that the data of users is fully protected.

## Symbol Conventions

The symbols that may be found in this document are defined as follows.

| Symbol | Description |
| --- | --- |
| DANGER | Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. |
| WARNING | Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. |
| CAUTION | Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. |
| NOTICE | Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.<br>NOTICE is used to address practices not related to personal injury. |
| NOTE | Calls attention to important information, best practices and tips.<br>NOTE is used to address information not related to personal injury, equipment damage, and environment deterioration. |

# Change History

Updates between document issues are cumulative. Therefore, the latest document version contains all updates made to previous versions.

## Changes in Issue 11(2014-10-25)

The eleventh commercial release has the following updates:

The S5720EI product description is added.

## Changes in Issue 10(2014-08-25)

The tenth commercial release has the following updates:

The documentation is modified according to updates in product features.

## Changes in Issue 09 (2014-07-20)

The ninth commercial release has the following updates:

The documentation is modified according to updates in product features.

## Changes in Issue 08 (2014-05-25)

The eighth commercial release has the following updates:

The documentation is modified according to updates in product features.

## Changes in Issue 07 (2014-04-30)

The seventh commercial release has the following updates:

The documentation is modified according to updates in product features.

## Changes in Issue 06 (2014-03-20)

The sixth commercial release has the following updates:

The documentation is modified according to updates in product features.

## Changes in Issue 05 (2014-03-12)

The fifth commercial release has the following updates:

The documentation is modified according to updates in product features.

## Changes in Issue 04 (2013-11-06)

The fourth commercial release has the following updates:

The documentation is modified according to updates in product features.

## Changes in Issue 03 (2013-09-30)

The third commercial release has the following updates:

The documentation is modified according to updates in product features.

## Changes in Issue 02 (2013-07-25)

The second commercial release has the following updates:

The documentation is modified according to updates in product features.

## Changes in Issue 01 (2013-05-30)

Initial commercial release.

# Contents

# 1 Mapping Between the S5700 Series Switches and Software Versions

**Figure 1-1** shows S5700 version evolution.

Each version in **Figure 1-1** supports at least one model of the S5700.

**Figure 1-1** S5700 version evolution

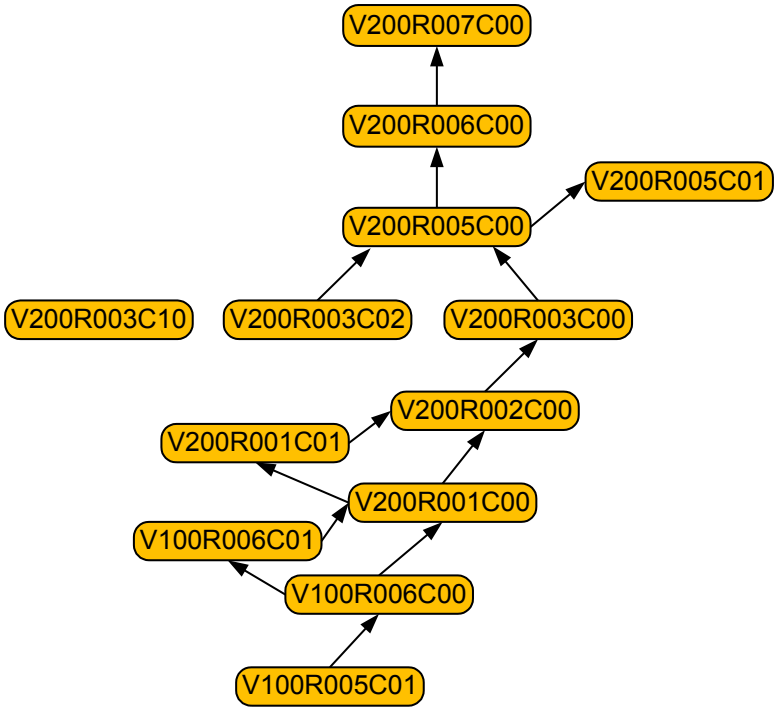



**Table 1-1** lists the mapping between S5700-LI series switches and software versions.

**Table 1-1** Mapping between the S5700-LI chassis and software versions

| Series | Model | Available Version |
| --- | --- | --- |
| S5700-LI | S5700-28P-LI-AC | V200R001C00 and later versions<br>**NOTE**<br>This module is not supported in V200R001C01, V200R003C02 and V200R003C10. |
| | S5700-28P-LI-DC | |
| | S5700-52P-LI-AC | |
| | S5700-52P-LI-DC | |
| | S5700-28P-PWR-LI-AC | |
| | S5700-52P-PWR-LI-AC | |
| | S5700-10P-PWR-LI-AC | V200R002C00 and later versions<br>**NOTE**<br>This module is not supported in V200R003C02 and V200R003C10. |
| | S5700-10P-LI-AC | |
| | S5700-28X-LI-AC | |
| | S5700-28X-LI-DC | |
| | S5700-52X-LI-AC | |
| | S5700-52X-LI-DC | |
| | S5700-28X-PWR-LI-AC | |
| | S5700-52X-PWR-LI-AC | |
| | S5700-28X-LI-24S-AC | V200R003C00 and later versions<br>**NOTE**<br>This module is not supported in V200R003C02 and V200R003C10. |
| | S5700-28X-LI-24S-DC | |
| | S5701-28X-LI-AC | |
| | S5701-28X-LI-24S-AC | |
| | S5700-28P-LI-BAT | V200R003C02 and later versions<br>**NOTE**<br>This module is not supported in V200R003C10. |
| | S5700-28P-LI-24S-BAT | |
| | S5700-52X-LI-48CS-AC | |
| | S5700-28TP-LI-AC | V200R003C10 and later versions<br>**NOTE**<br>This module is not supported in V200R005C00. |
| | S5700-28TP-PWR-LI-AC | |
| | S5701-28TP-PWR-LI-AC | |

**Table 1-2** lists the mapping between S5700S-LI series switches and software versions.

**Table 1-2** Mapping between the S5700S-LI chassis and software versions

| Series | Model | Available Version |
| --- | --- | --- |
| S5700S-LI | S5700S-28P-LI-AC | V200R001C00 and later versions<br>**NOTE**<br>This module is not supported in V200R001C01, V200R003C02, V200R003C10, and V200R005C01. |
| | S5700S-52P-LI-AC | |

Table 1-3 lists the mapping between S5710-LI series switches and software versions.

**Table 1-3** Mapping between the S5710-LI series switches and software versions

| Device Series | Device Model | Available Version |
| --- | --- | --- |
| S5710-LI | S5710-28C-LI | Only V200R001C00 version |
| | S5710-52C-LI | Only V200R001C00 version |
| | S5710-28C-PWR-LI | Only V200R001C00 version |
| | S5710-52C-PWR-LI | Only V200R001C00 version |

Table 1-4 lists the mapping between S5700-SI series switches and software versions.

**Table 1-4** Mapping between the S5700-SI chassis and software versions

| Series | Model | Available Version |
| --- | --- | --- |
| S5700-SI | S5700-28C-SI | V100R005C01 to V200R005C00<br>**NOTE**<br>These chassis models are not supported in V100R006C01, V200R001C01, V200R003C02, and V200R003C10. |
| | S5700-52C-SI | |
| | S5700-24TP-SI-AC | |
| | S5700-24TP-SI-DC | |
| | S5700-48TP-SI-AC | |
| | S5700-48TP-SI-DC | |
| | S5700-24TP-PWR-SI | |
| | S5700-48TP-PWR-SI | |
| | S5700-28C-PWR-SI | V200R001C00 to V200R005C00<br>**NOTE**<br>These chassis models are not supported in V200R001C01, V200R003C02, and V200R003C10. |
| | S5700-52C-PWR-SI | |

| Series | Model | Available Version |
| --- | --- | --- |
| | S5700-26X-SI-12S-AC | V200R002C00 to V200R005C00<br>**NOTE**<br>This chassis model is not supported in V200R003C02 and V200R003C10. |

Table 1-5 lists the mapping between S5700-EI series switches and software versions.

**Table 1-5** Mapping between the S5700-EI chassis and software versions

| Series | Model | Available Version |
| --- | --- | --- |
| S5700-EI | S5700-28C-EI | V100R005C01 to V200R005C01<br>**NOTE**<br>These chassis models are not supported in V200R003C02 and V200R003C10. |
| | S5700-52C-EI | |
| | S5700-28C-EI-24S | |
| | S5700-28C-PWR-EI | |
| | S5700-52C-PWR-EI | |

Table 1-6 lists the mapping between S5710-EI series switches and software versions.

**Table 1-6** Mapping between the S5710-EI chassis and software versions

| Series | Model | Available Version |
| --- | --- | --- |
| S5710-EI | S5710-28C-EI | V200R001C00 to V200R005C00<br>**NOTE**<br>These chassis models are not supported in V200R001C01, V200R003C02, and V200R003C10. |
| | S5710-52C-EI | |
| | S5710-28C-PWR-EI-AC | V200R002C00 to V200R005C00<br>**NOTE**<br>These chassis models are not supported in V200R003C02 and V200R003C10. |
| | S5710-52C-PWR-EI-AC | |
| | S5710-52C-PWR-EI | |

Table 1-7 lists the mapping between S5720-EI series switches and software versions.

**Table 1-7** Mapping between the S5720-EI chassis and software versions

| Series | | Model | Available Version |
|---|---|---|---|
| S5720-EI | S5720-C-EI | S5720-36C-EI-AC | V200R007C00 and later versions |
| | | S5720-56C-EI-AC | |
| | | S5720-36C-EI-28S-AC | |
| | | S5720-56C-EI-48S-AC | |
| | | S5720-36C-PWR-EI-AC | |
| | | S5720-56C-PWR-EI-AC | |
| | | S5720-56C-PWR-EI-AC1 | |
| | S5720-PC-EI | S5720-36PC-EI-AC | |
| | | S5720-56PC-EI-AC | |
| | S5720-X-EI | S5720-32X-EI-AC | |
| | | S5720-52X-EI-AC | |
| | | S5720-50X-EI-AC | |
| | | S5720-32X-EI-24S-AC | |
| | | S5720-50X-EI-46S-AC | |
| | S5720-P-EI | S5720-32P-EI-AC | |
| | | S5720-52P-EI-AC | |

Table 1-8 lists the mapping between S5700-HI series switches and software versions.

**Table 1-8** Mapping between the S5700-HI chassis and software versions

| Series | Model | Available Version |
|---|---|---|
| S5700-HI | S5700-28C-HI | V100R006C01 to V200R005C01<br>**NOTE**<br>These chassis models are not supported in V200R003C02 and V200R003C10. |
| | S5700-28C-HI-24S | V100R006C01 to V200R005C01<br>**NOTE**<br>These chassis models are not supported in V200R003C02 and V200R003C10. |

Table 1-9 lists the mapping between S5710-HI series switches and software versions.

**Table 1-9** Mapping between the S5710-HI chassis and software versions

| Series | Model | Available Version |
| --- | --- | --- |
| S5710-HI | S5710-108C-PWR-HI | V200R003C00 to V200R005C00<br>**NOTE**<br>This chassis model is not supported in V200R003C02 and V200R003C10. |

Table 1-10 lists the mapping between S5720-HI series switches and software versions.

**Table 1-10** Mapping between the S5720-HI chassis and software versions

| Series | Model | Available Version |
| --- | --- | --- |
| S5720-HI | S5720-56C-HI-AC | V200R006C00 and later versions |
| | S5720-56C-PWR-HI-AC | |
| | S5720-32C-HI-24S-AC | |

**NOTE**

Unless otherwise specified, this document describes matching hardware and software performance of the switch in the latest version.

# 2 Product Overview

## About This Chapter

# 2.1 Product Positioning

The S5700 series ethernet switches (S5700 for short) are next-generation energy-saving switches developed by Huawei to meet the demand for high-bandwidth access and Ethernet multi-service aggregation. Based on cutting-edge hardware and Huawei Versatile Routing Platform (VRP) software, the S5700 provides a large switching capacity, high reliability (double power slots and hardware Ethernet OAM), and high-density GE ports to accommodate 10 Gbit/s upstream transmissions. It also supports Energy Efficient Ethernet (EEE) and iStack. The S5700 can be used in various enterprise network scenarios. For example, it can function as an access or aggregation switch on a campus network, a gigabit access switch in an Internet data center (IDC), or a desktop switch to provide 1000 Mbit/s access for terminals.

The S5700 is available in a lite (LI) series, a standard (SI) series, an enhanced (EI) series, and a hyper (HI) series. **Table 2-1** describes the differences among the four series.

NOTE

Unless otherwise specified, only the product differences in the latest software version are provided here.

**Table 2-1** Differences among the four series

| Features | LI | SI | EI | HI |
|---|---|---|---|---|
| IPv4 Routing Protocol | Static route | Static route/RIP | Static route/ RIP/OSPF/ BGP/ISIS | Static route/ RIP/OSPF/ BGP/ISIS |
| IPv6 Routing Protocol | Static route | Static route/ RIPng | Static route/ RIPng/OSPFv3/ BGP4+/ISIS for IPv6 | Static route/ RIPng/OSPFv3/ BGP4+/ISIS for IPv6 |
| Multicast | IGMP snooping/MLD snooping | IGMP Snooping/MLD Snooping | IGMP Snooping/MLD Snooping/ IGMP/MLD/ MSDP/PIM (IPv4)/PIM (IPv6) | IGMP Snooping/MLD Snooping/ IGMP/MLD/ MSDP/PIM (IPv4)/PIM (IPv6) |

| Features | LI | SI | EI | HI |
|---|---|---|---|---|
| MPLS | Not supported | Not supported | MPLS LDP/ MPLS TE/ MPLS VPN<br>**NOTE**<br>Only the S5710-EI supports these functions. | S5700HI: supports MPLS LDP/MPLS TE/ MPLS VPN<br>S5710HI: supports MPLS LDP/MPLS TE/ MPLS VPN<br>S5720HI: not support MPLS LDP/MPLS TE/ MPLS VPN |
| OAM/BFD | Software level | Software level | Software level | S5700HI: Hardware level<br>S5710HI: Software level<br>S5720HI: Software level |
| Traffic analysis | sFlow | Not supported | S5700EI: sFlow<br>S5720EI: sFlow<br>S5710EI: NetStream/ sFlow | S5700HI/ S5710HI: NetStream/ sFlow<br>S5720HI: NetStream |
| iStack | Stacking through service ports<br>**NOTE**<br>The S5700-10P-LI-AC, S5700-10P-PWR-LI-AC, S5700-28P-LI-BAT, S5700-28P-LI-24S-BAT and S5700S-LI do not support stacking. | Stacking through stack cards<br>**NOTE**<br>The S5700-26X-SI-12S-AC does not support stacking. | S5700EI: stacking through stack cards<br>S5710EI: stacking through service ports<br>S5720EI: stacking through stack cards | S5700HI: stacking through service ports<br>S5710HI: Not supported<br>S5720HI: Not supported |

# 2.2 Product Characteristics

## Various Combination of Ports

The S5700-EI, S5710–EI and S5720-EI support various extended subcards that provide high-density GE/10GE uplink ports. The flexible port combinations meet bandwidth expansion requirements, protecting customers' investment.

## Intelligent Stack

The S5700 supports intelligent stack (iStack). This technology combines multiple switches into a logical switch.

Member switches in a stack implement redundancy backup to improve device reliability and use inter-device link aggregation to improve link reliability. iStack provides high network scalability. You can increase ports, bandwidth, and processing capacity of a stack by simply adding member switches to the stack. iStack also simplifies device configuration and management. After a stack is set up, multiple physical switches are virtualized into one logical device. You can log in to any member switch in the stack to manage all the member switches in the stack.

## Innovative AHM Energy Saving Technologies

The S5700-LI series (except S5700-52X-LI-48CS-AC, S5700-28P-LI-BAT and S5700-28P-LI-24S-BAT) smart energy-saving switches reduce power consumption without degrading system performance and user experience. The S5700-LI series uses innovative energy-saving technologies including energy efficient Ethernet (EEE), port power detection, dynamic CPU frequency adjustment, and device sleeping. These technologies help reduce power consumption by adjusting power depending on the Up/Down states of links, presence/absence of optical modules, shutdown and undo shutdown operations on ports, and peak and off-peak hours. The S5700-LI series is the industry's first switch series that supports entire device sleeping, and it provides three energy saving modes to adapt to different usage scenarios: standard mode, basic mode, and deep mode.

## Comprehensive VPN Technologies

The S5700 supports the multi-VPN-instance CE (MCE) function, which allows users in different VPNs to connect to the same switch and isolates users through multi-instance routing. Users in multiple VPNs connect to a PE device through the same physical uplink port on the switch, which reduces the investment on network deployment. The S5710-EI and S5700-HI support Multiprotocol Label Switching (MPLS) QoS, MPLS traffic engineering (TE), virtual leased line (VLL), virtual private LAN service (VPLS), and Layer 3 virtual private network (L3VPN). They can provide high-quality private line access services for enterprises and are cost-effective case-shaped MPLS switches.

## Easy Operation and Maintenance

The S5700 supports EasyDeploy, USB-based deployment, batch remote upgrade and is a plug-and-play product. These functions facilitate device deployment, upgrade, service provisioning, and other management and maintenance operations, and also greatly reduce costs of operation

and maintenance. The S5700 can be managed and maintained using Simple Network Management Protocol (SNMP) V1, V2c, and V3, command line interface (CLI), web-based network management system, Telnet, or Secure Shell (SSH) V2.0. Additionally, it supports remote network monitoring (RMON), multiple log hosts, port traffic statistics collection, and network quality analysis that help in network consolidation and reconstruction.

The S5700 can use the GARP VLAN Registration Protocol (GVRP) to implement dynamic distribution, registration, and propagation of VLAN attributes. GVRP reduces manual configuration workload and ensures correct configuration. Besides, the S5700 supports the MUX VLAN function, which involves a principal VLAN and multiple subordinate VLANs. Subordinate VLANs are classified into group VLANs and separate VLANs. Ports in the principal VLAN can communicate with ports in subordinate VLANs. Ports in a subordinate group VLAN can communicate with each other, whereas ports in a subordinate separate VLAN can communicate only with ports in the principal VLAN.

## Excellent Network Traffic Analysis

The S5700 provides the NetStream function and can function as a NetStream data exporter. It periodically collects data traffic statistics, encapsulates the statistics in standard V5, V8, or V9 packets, and sends the packets to the NetStream data collector according to NetStream configuration. The collected statistics are then processed to dynamically generate reports, analyze traffic attributes, and generate alarms on abnormal traffic. The NetStream function helps you optimize network structure and adjust resource deployment in a timely manner.

The S5700 supports the sFlow function. It uses a method defined in the sFlow standard to sample traffic passing through it and sends sampled traffic to the collector in real time. The collected traffic statistics are used to generate statistical reports, helping enterprises maintain their networks.

## Flexible Ethernet Networking

In addition to traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), the S5700 supports Huawei-developed Smart Ethernet Protection (SEP) technology and the latest Ethernet Ring Protection Switching (ERPS) standard. SEP is a ring protection protocol specific to the Ethernet link layer, and applies to various ring network topologies, such as open ring topology, closed ring topology, and cascading ring topology. This protocol is reliable, easy to maintain, and implements fast protection switching within 50 ms. ERPS is defined in ITU-T G.8032. It implements millisecond-level protection switching based on traditional Ethernet MAC and bridging functions.

The S5700 supports Smart Link and Virtual Router Redundancy Protocol (VRRP), which implement backup of uplinks. One S5700 switch can connect to multiple aggregation switches through multiple links, significantly improving reliability of access devices. In addition, the S5700 provides multiple connection fault detection mechanisms, including Ethernet OAM (IEEE 802.3ah/802.1ag /ITU Y.1731) and Bidirectional Forwarding Detection (BFD). The S5700HI provides hardware-based 3.3 ms Ethernet OAM and 10 ms BFD.

## Diversified Security Control

The S5700 supports MAC address authentication and 802.1X authentication and implements dynamic delivery of policies (VLAN, QoS, and ACL) to users.

The S5700 provides a series of mechanisms to defend against DoS attacks and user-targeted attacks. DoS attacks are targeted at switches and include SYN flood, Land, Smurf, and ICMP

flood attacks. User-targeted attacks include bogus DHCP server attacks, IP/MAC address spoofing, DHCP request flood, and change of the DHCP CHADDR value. The S5700 collects and maintains information about access users, such as IP addresses, MAC addresses, IP address leases, VLAN IDs, and access interfaces in a DHCP snooping binding table. In this way, it can defend against DHCP attacks on the network. You can specify DHCP snooping trusted and untrusted ports to ensure that users connect only to the authorized DHCP server.

The S5700 supports strict ARP learning. This feature prevents ARP spoofing attackers from exhausting ARP entries so that users can connect to the Internet normally.

## Mature IPv6 Technologies

The S5700 uses the mature, stable Versatile Routing Platform (VRP) and supports IPv4/IPv6 dual stacks, IPv6 routing protocols (RIPng, OSPFv3, BGP4+, and IS-IS for IPv6), and IPv6 over IPv4 tunnels including manual, 6-to-4, and Intra-Site Automatic Tunnel Addressing Protocol (ISATAP) tunnels. With these IPv6 features, the S5700 can be deployed on a pure IPv4 network, a pure IPv6 network, or a shared IPv4/IPv6 network, helping realize IPv4-to-IPv6 transition.

## Innovative built-in battery

The S5700-LI-BAT(S5700-28P-LI-BAT and S5700-28P-LI-24S-BAT) is the industry's first switch model that supports internal lithium batteries as a backup power supply. It ensures uninterrupted services in situations where power failures frequently occur at the access layer. The S5700-LI-BAT has the following advantages:

- In the event of a mains power failure the battery can power the switch, so services will not be interrupted.
- Compared with switches using external power supply units, the S5700-LI-BAT occupies less space and is easier to install.
- Intelligent power management, long standby time.
- Battery LAN switches on the entire network can be managed centrally using a web system, facilitating network operation and maintenance. As the battery lifetime is predictable, you do not need to replace batteries periodically, reducing hardware costs.
- The internal battery provides alarm and voltage/current protection functions as well as overtemperature protection, which enhance reliability.

## CSFP providing high-density access and increased bandwidth

CSFP switches support downlink CSFP ports. Each downlink CSFP port equipped with a CSFP GE optical module and one pair of fibers can provide 2 Gbit/s bandwidth bidirectionally, which is two times the bandwidth of standard SFP optical modules. The 24 downlink CSFP ports can provide 48 Gbit/s bandwidth bidirectionally, implementing high-density access (equal to access of 48 standard SFP ports) and saving the cost of deploying fibers and adding optical modules.

# 3 Application Scenarios

## About This Chapter

3.1 Application of the S5700 on a Large-scale Enterprise Campus Network
This section describes the application of the S5700 on a large-scale enterprise campus network.

3.2 Application of the S5700 on a Small- or Medium-scale Enterprise Campus Network
This section describes the application of the S5700 on a small- or medium-scale enterprise campus network.

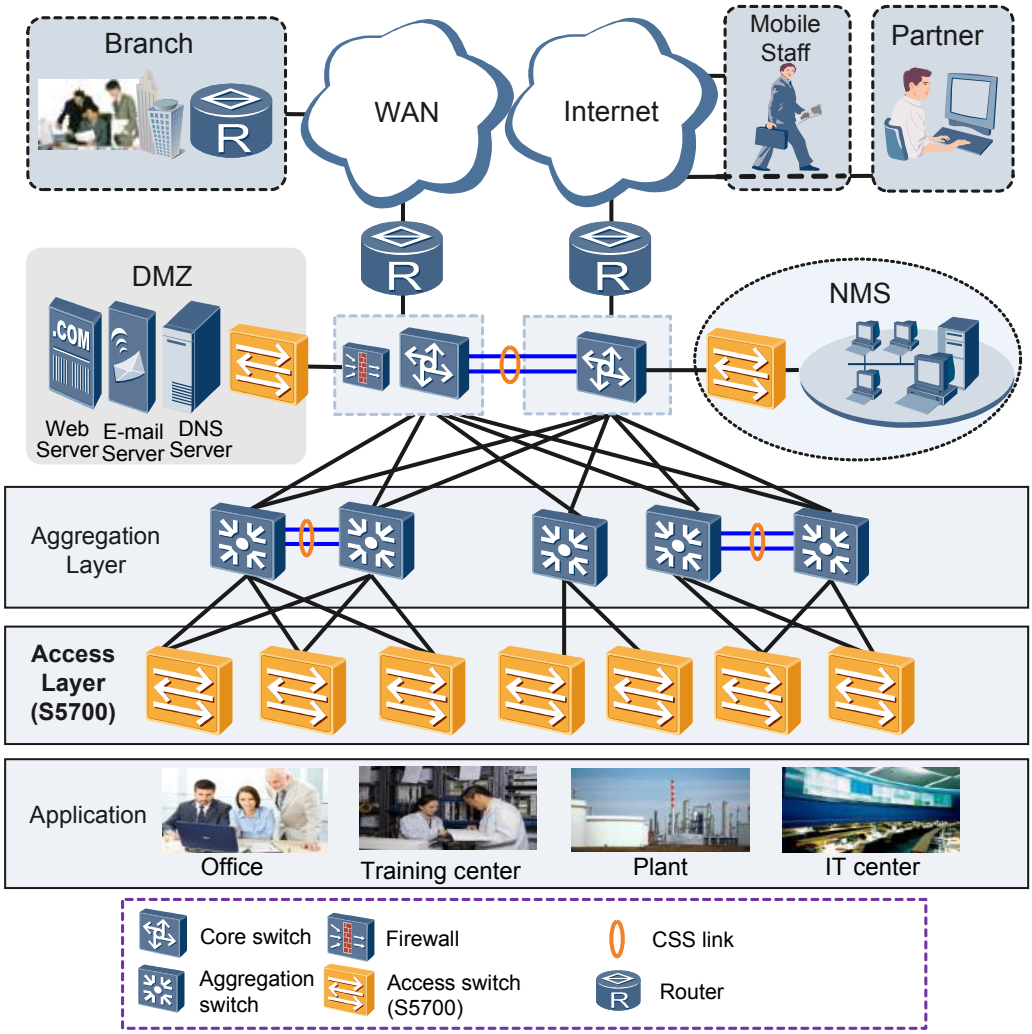
3.3 Application of the S5700 on a Small-scale Enterprise Campus Network
This section describes the application of the S5700 on a small-scale enterprise campus network.

# 3.1 Application of the S5700 on a Large-scale Enterprise Campus Network

This section describes the application of the S5700 on a large-scale enterprise campus network.

As shown in **Figure 3-1**, the S5700 is deployed at the access layer of a campus network to provide high performance, multi-service, and highly reliable enterprise network.

**Figure 3-1** Position of the S5700 on a Large-scale enterprise campus network




The S5700 provides various terminal security management features, and supports functions such as PoE, voice VLAN, and QoS. The S5700 can be used for desktop access and provides GE access.

The S5700 provides various security features including ARP security, IP security, IP source guard, and user access control policies such as NAC and ACLs, to control access of user terminals.

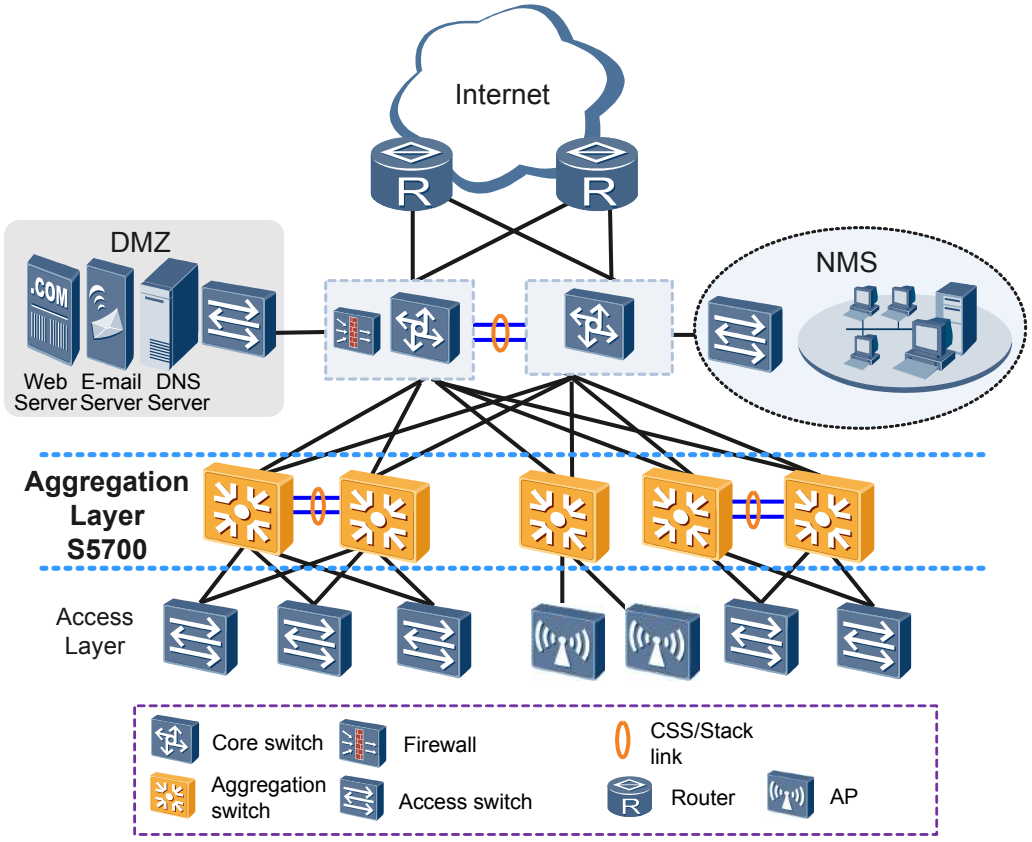
The S5700 provides Easy-Operation and USB-based deployment, which facilitates deployment and management.

# 3.2 Application of the S5700 on a Small- or Medium-scale Enterprise Campus Network

This section describes the application of the S5700 on a small- or medium-scale enterprise campus network.

As shown in **Figure 3-2**, the S5700 is deployed at the aggregation layer of a campus network to provide high performance, multi-service, and highly reliable enterprise network.

**Figure 3-2** Position of the S5700 on a small- or medium-scale enterprise campus network




On an enterprise network or campus network shown in **Figure 3-2**, the S5700s connect to access switches through 100M/1000M interfaces, provide high performance and large switching capacity, and connect to core switches through 10GE optical interfaces. The network provides 10 Gbit/s rate for the backbone layer and 100 Mbit/s access rate for terminals, meeting requirements for high bandwidth and multi-service.

The S5700 provides SEP and RRPP to implement millisecond-level protection switchover. S5700s form a stack system by using iStack technology to implement the distributed forwarding structure and fast fault recovery. The stack system increases the number of user interfaces and

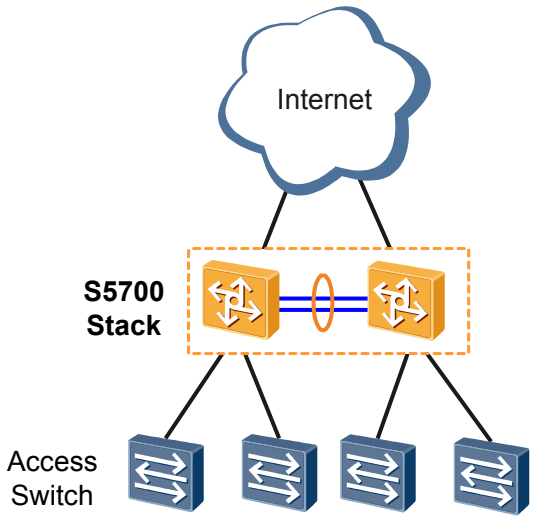
improves packet processing capability. The iStack-enabled S5700s can be managed in a uniform manner to facilitate network management and maintenance.

# 3.3 Application of the S5700 on a Small-scale Enterprise Campus Network

This section describes the application of the S5700 on a small-scale enterprise campus network.

As core switches of a small-scale enterprise network shown in **Figure 3-3**, the S5700s have powerful aggregation and routing capabilities. S5700s use iStack to implement backup among multiple devices and ensure high reliability. The S5700 provides various access control policies to achieve centralized management and simplify configuration.

**Figure 3-3** Position of the S5700 on a small-scale enterprise network



# 4 Hardware Architecture

## About This Chapter

# 4.1 Appearance and Structure

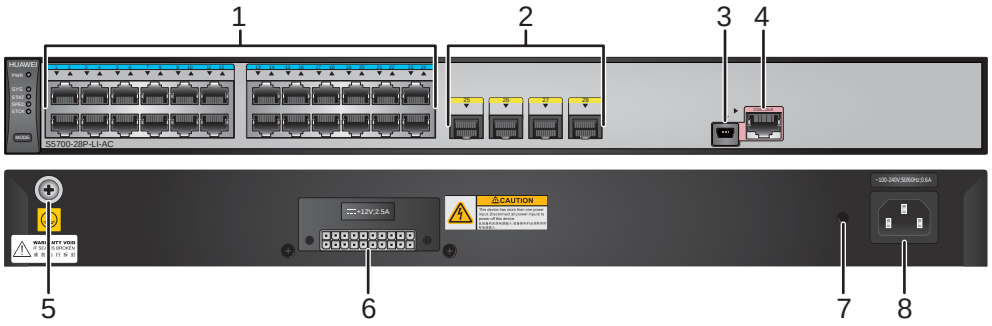
NOTE

The S5700-28P-LI-BAT and S5700-28P-LI-24S-BAT support internal batteries. For details about the two models, see the S5700-LI-BAT Hardware Installation and Maintenance Guide. The S5700-LI series switches mentioned in this section do not include the two models.

## 4.1.1 S5700-LI

### S5700-28P-LI-AC

**Figure 4-1** Appearance of the S5700-28P-LI-AC

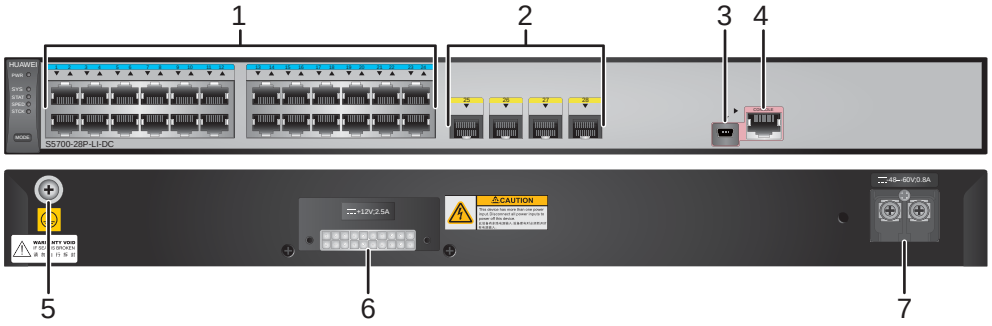



| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module (applicable in V200R002C00 and later versions)<br>● Stack optical module (applicable in V200R007C00 and later versions)<br>● 1 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |

| | | | |
|---|---|---|---|
| 7 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 8 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

## S5700-28P-LI-DC

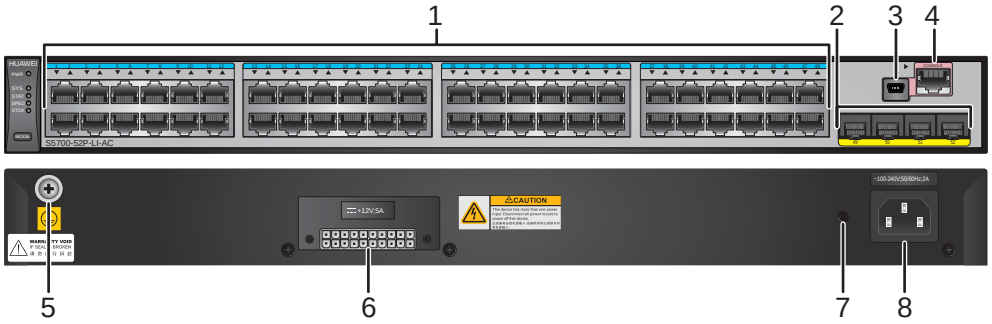
**Figure 4-2** Appearance of the S5700-28P-LI-DC




| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module (applicable in V200R002C00 and later versions)<br>● Stack optical module (applicable in V200R007C00 and later versions)<br>● 1 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |
| 7 | DC power terminal<br>**NOTE**<br>It is used with a DC power cable. | - | - |

## S5700-52P-LI-AC

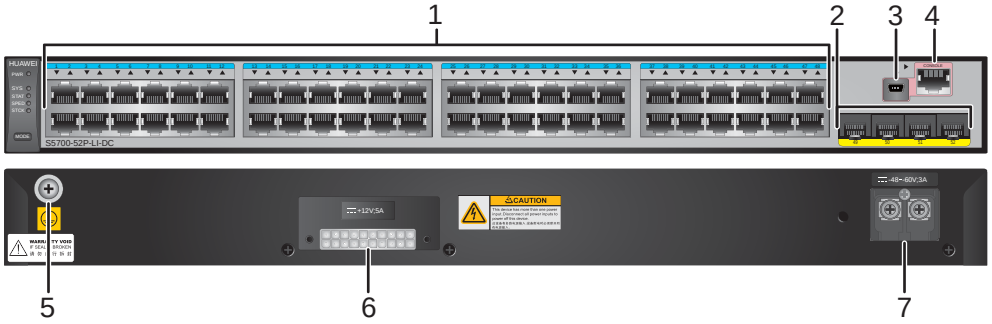
**Figure 4-3** Appearance of the S5700-52P-LI-AC




| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module (applicable in V200R002C00 and later versions)<br>● Stack optical module (applicable in V200R007C00 and later versions)<br>● 1 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |
| 7 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 8 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

## S5700-52P-LI-DC

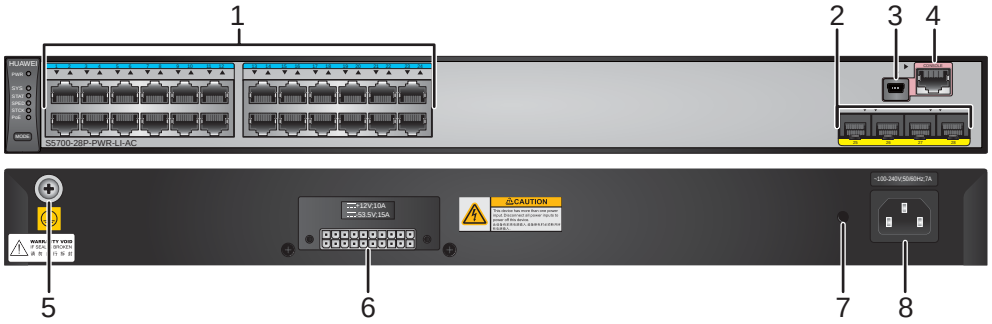
**Figure 4-4** Appearance of the S5700-52P-LI-DC




| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module (applicable in V200R002C00 and later versions)<br>● Stack optical module (applicable in V200R007C00 and later versions)<br>● 1 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |
| 7 | DC power terminal<br>**NOTE**<br>It is used with a DC power cable. | - | - |

## S5700-28P-PWR-LI-AC

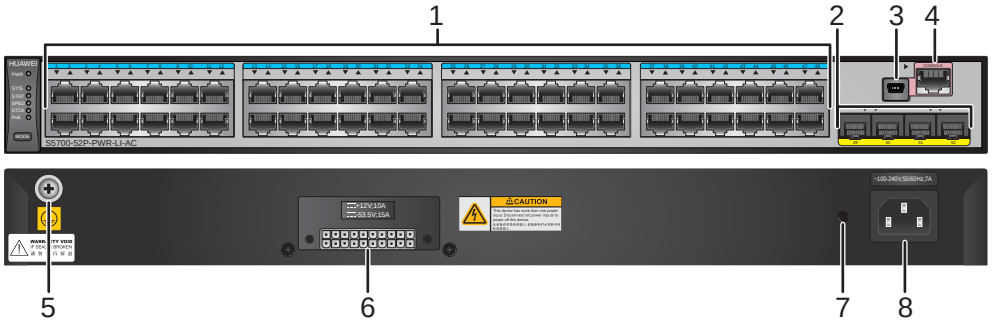
**Figure 4-5** Appearance of the S5700-28P-PWR-LI-AC




| | | | |
|---|---|---|---|
| 1 | Twenty-four PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module (applicable in V200R002C00 and later versions)<br>● Stack optical module (applicable in V200R007C00 and later versions)<br>● 1 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>● It is used with an RPS cable which is not hot swappable.<br>● A PoE switch can have an RPS power supply connected to this socket to provide inputs for system power supply and PoE power supply. The two inputs are independent of each other. The RPS power supply can also be used as a backup of the system power supply when it does not provide PoE power. |
| 7 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 8 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

## S5700-52P-PWR-LI-AC

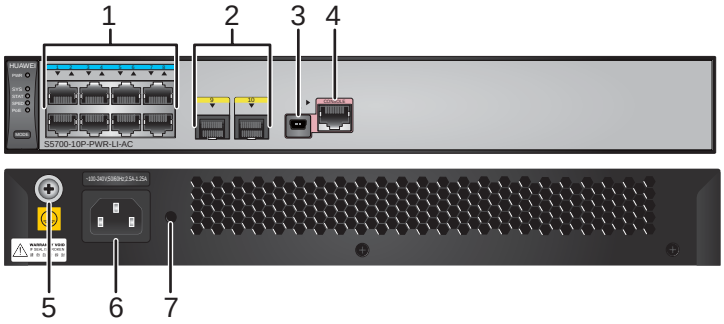
**Figure 4-6** Appearance of the S5700-52P-PWR-LI-AC




| | | | |
|---|---|---|---|
| 1 | Forty-eight PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module (applicable in V200R002C00 and later versions)<br>● Stack optical module (applicable in V200R007C00 and later versions)<br>● 1 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>● It is used with an RPS cable which is not hot swappable.<br>● A PoE switch can have an RPS power supply connected to this socket to provide inputs for system power supply and PoE power supply. The two inputs are independent of each other. The RPS power supply can also be used as a backup of the system power supply when it does not provide PoE power. |
| 7 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 8 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

## S5700-10P-PWR-LI-AC

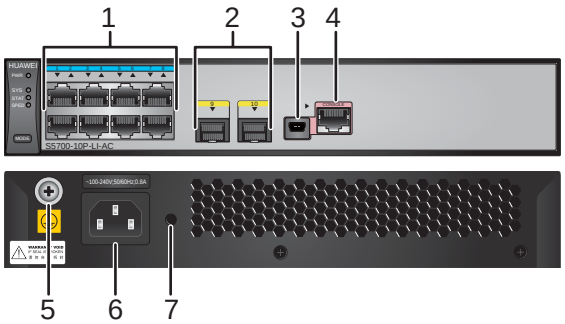
**Figure 4-7** Appearance of the S5700-10P-PWR-LI-AC




| | | | |
|---|---|---|---|
| 1 | Eight PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Two 1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● GE optical module (not support 80 km and 100 km optical modules)<br>● GE SFP copper module (applicable in V200R002C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |
| 7 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | - | - |

## S5700-10P-LI-AC

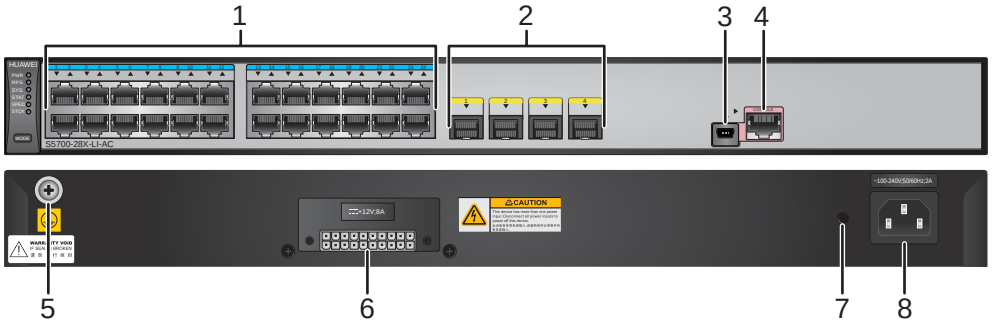
**Figure 4-8** Appearance of the S5700-10P-LI-AC



| | | | |
|---|---|---|---|
| 1 | Eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Two 1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module (applicable in V200R002C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |
| 7 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | - | - |

## S5700-28X-LI-AC

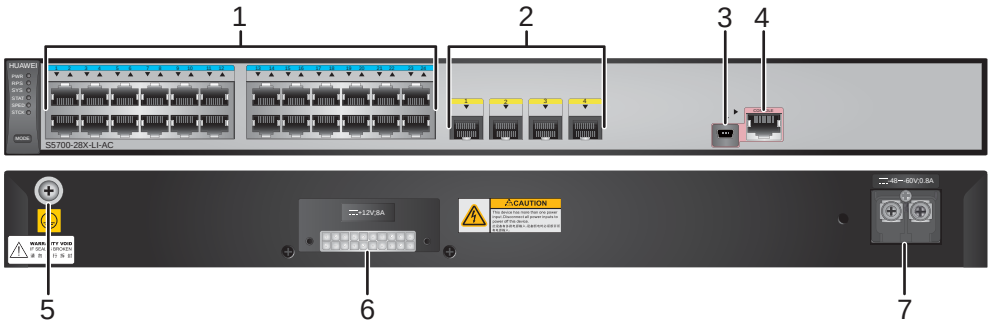
**Figure 4-9** Appearance of the S5700-28X-LI-AC



| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 and later versions)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |
| 7 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 8 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

## S5700-28X-LI-DC

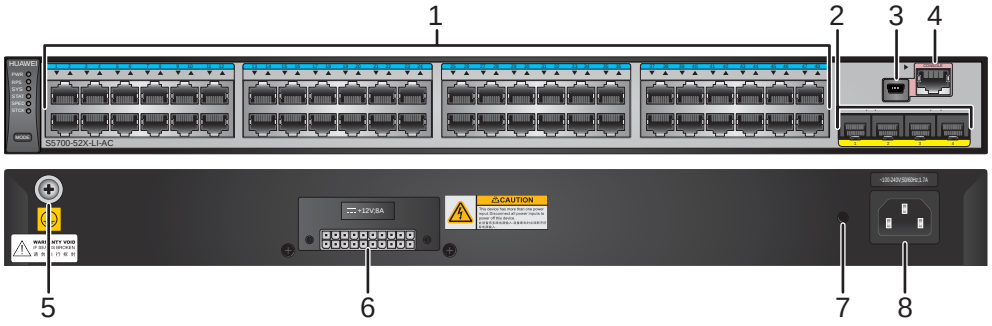
**Figure 4-10** Appearance of the S5700-28X-LI-DC



| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 and later versions)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |
| 7 | DC power terminal<br>**NOTE**<br>It is used with a DC power cable. | - | - |

## S5700-52X-LI-AC

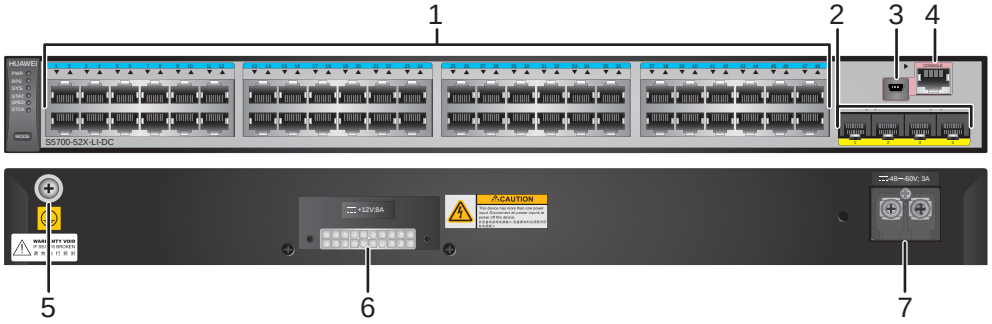
**Figure 4-11** Appearance of the S5700-52X-LI-AC



| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 and later versions)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |
| 7 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 8 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

## S5700-52X-LI-DC

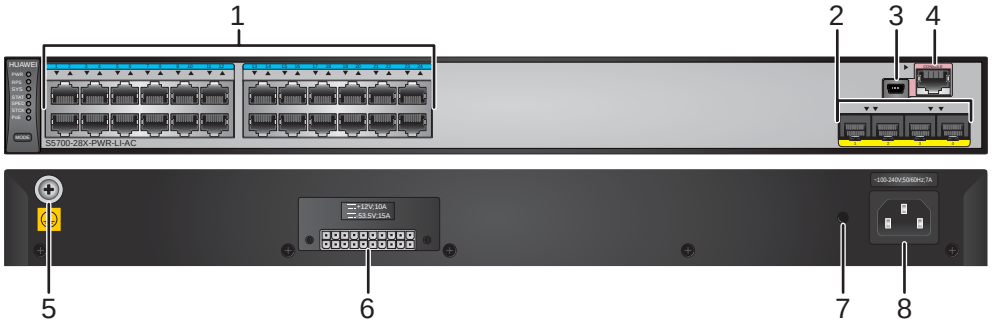
**Figure 4-12** Appearance of the S5700-52X-LI-DC



| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 and later versions)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |
| 7 | DC power terminal<br>**NOTE**<br>It is used with a DC power cable. | - | - |

## S5700-28X-PWR-LI-AC

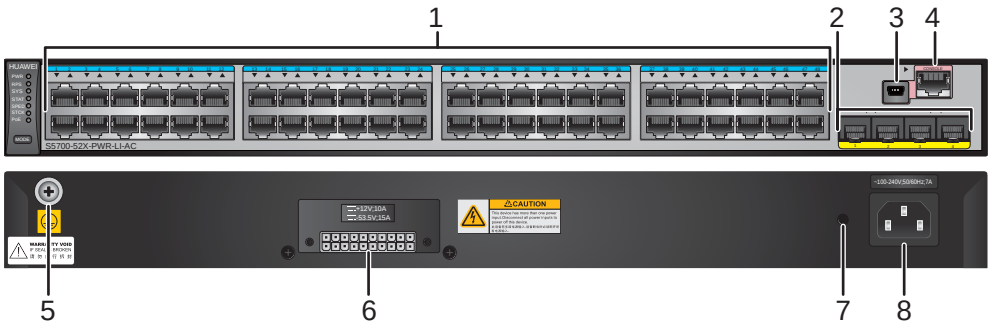
**Figure 4-13** Appearance of the S5700-28X-PWR-LI-AC



| | | | |
|---|---|---|---|
| 1 | Twenty-four PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 and later versions)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>● It is used with an RPS cable which is not hot swappable.<br>● A PoE switch can have an RPS power supply connected to this socket to provide inputs for system power supply and PoE power supply. The two inputs are independent of each other. The RPS power supply can also be used as a backup of the system power supply when it does not provide PoE power. |
| 7 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 8 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

## S5700-52X-PWR-LI-AC

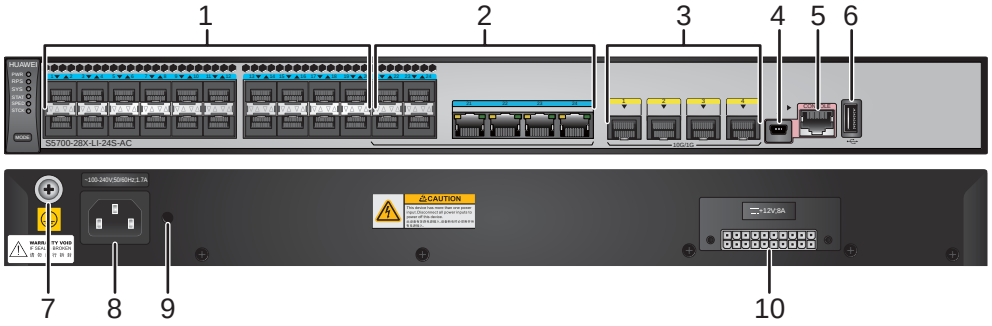
**Figure 4-14** Appearance of the S5700-52X-PWR-LI-AC



| | | | |
|---|---|---|---|
| 1 | Forty-eight PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 and later versions)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>● It is used with an RPS cable which is not hot swappable.<br>● A PoE switch can have an RPS power supply connected to this socket to provide inputs for system power supply and PoE power supply. The two inputs are independent of each other. The RPS power supply can also be used as a backup of the system power supply when it does not provide PoE power. |
| 7 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 8 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

## S5700-28X-LI-24S-AC

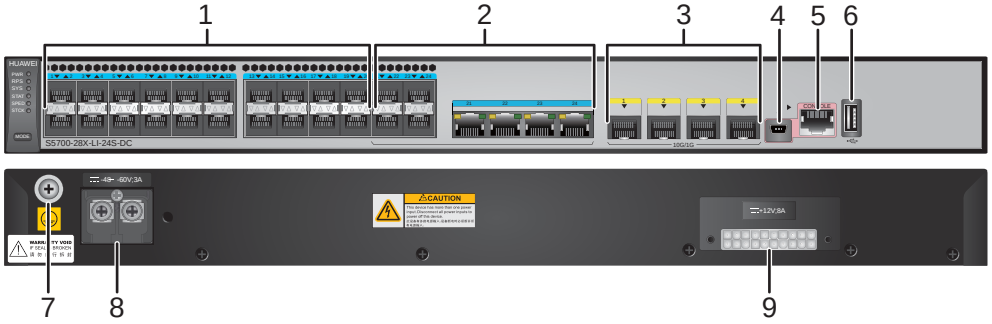
**Figure 4-15** Appearance of the S5700-28X-LI-24S-AC



| | | | |
|---|---|---|---|
| 1 | Twenty 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module |
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 and later versions)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |
| 5 | One console port | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |
| 9 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 10 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |

## S5700-28X-LI-24S-DC

**Figure 4-16** Appearance of the S5700-28X-LI-24S-DC

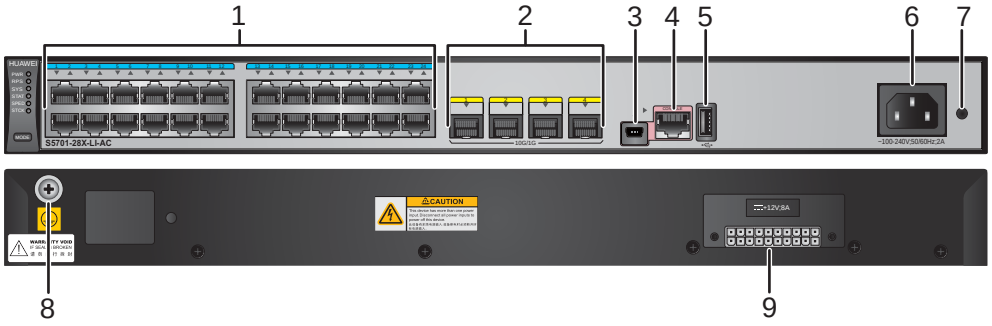



| | | | |
|---|---|---|---|
| 1 | Twenty 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module |
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 and later versions)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |
| 5 | One console port | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | DC power terminal<br>**NOTE**<br>It is used with a DC power cable. |

| | | | |
|---|---|---|---|
| 9 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. | - | - |

## S5701-28X-LI-AC

**Figure 4-17** Appearance of the S5701-28X-LI-AC

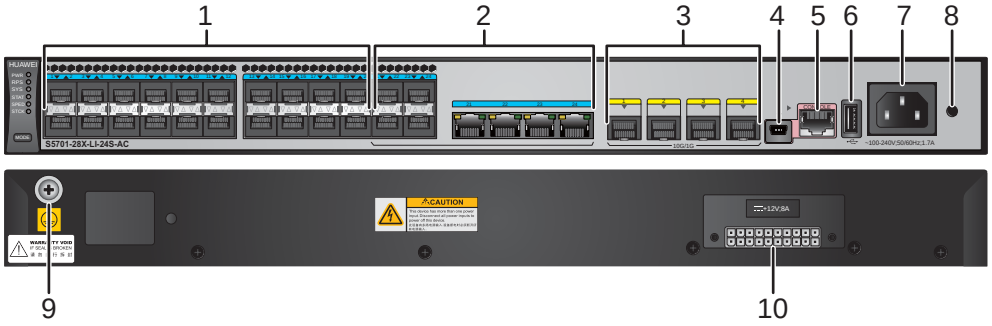



| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 and later versions)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables |
| 3 | One Mini USB port | 4 | One console port |
| 5 | One USB port | 6 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |
| 7 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 8 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |

| | | | |
|---|---|---|---|
| 9 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. | - | - |

## S5701-28X-LI-24S-AC

**Figure 4-18** Appearance of the S5701-28X-LI-24S-AC

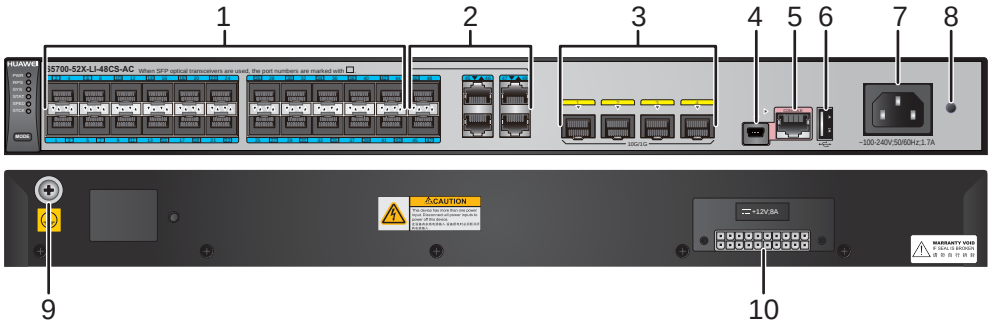



| | | | |
|---|---|---|---|
| 1 | Twenty 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module |
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 and later versions)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |
| 5 | One console port | 6 | One USB port |

| | | | |
|---|---|---|---|
| 7 | AC socket<br>**NOTE**<br>It is used with an AC power cable. | 8 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. |
| 9 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 10 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |

## S5700-52X-LI-48CS-AC

**Figure 4-19** Appearance of the S5700-52X-LI-48CS-AC

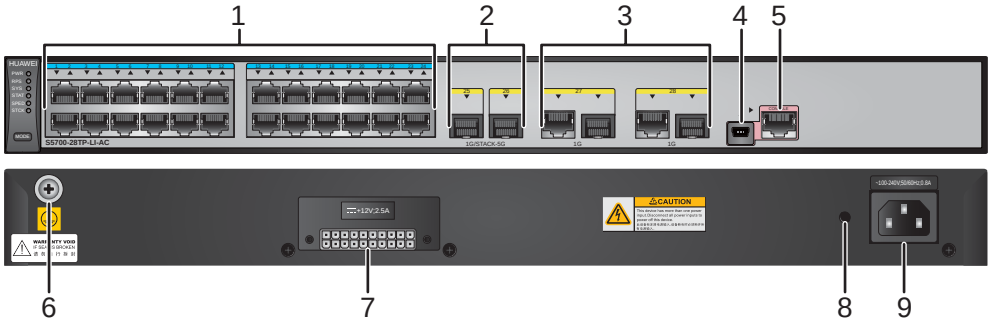



| | | | |
|---|---|---|---|
| 1 | Forty-four 100/1000BASE-X CSFP Ethernet ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● CSFP optical module<br>**NOTE**<br>● When all the ports have CSFP optical modules installed, each port functions as two ports. The switch has a total of 44 ports in this case.<br>● When all the ports have SFP optical modules installed, the switch has a 22 ports. | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● CSFP optical module<br>**NOTE**<br>The four combo ports (numbered 45, 46, 47, and 48) on a CSFP switch include four electrical ports and two optical ports. The two optical ports can function as four optical modules when they have Compact Small Form-Factor Pluggable (CSFP) optical modules installed. When the two optical ports have SFP optical modules installed, the electrical ports 45 and 48 can be used normally. |

| | | | |
|---|---|---|---|
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 and later versions)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |
| 5 | One console port | 6 | One USB port |
| 7 | AC socket<br>**NOTE**<br>It is used with an AC power cable. | 8 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. |
| 9 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 10 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |

## S5700-28TP-LI-AC

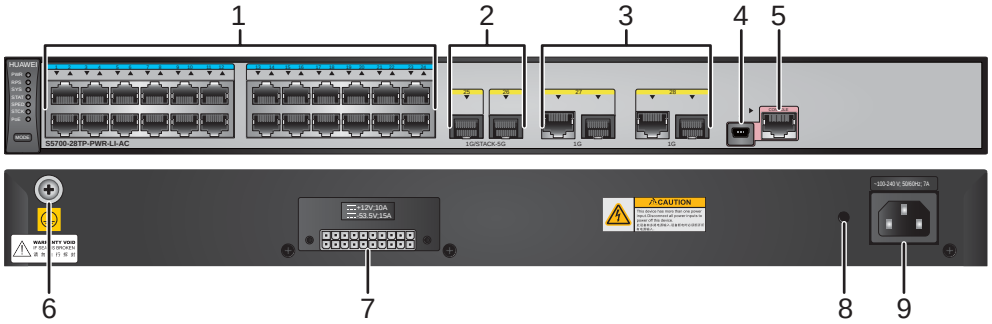
**Figure 4-20** Appearance of the S5700-28TP-LI-AC



| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Two 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● Stack optical module (applicable in V200R007C00 and later versions)<br>● 1 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables |
| 3 | Two combo ports (10/100/1000BASE-T + 100/1000BASE-X) | 4 | One Mini USB port |
| 5 | One console port | 6 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 7 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. | 8 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. |
| 9 | AC socket<br>**NOTE**<br>It is used with an AC power cable. | - | - |

## S5700-28TP-PWR-LI-AC

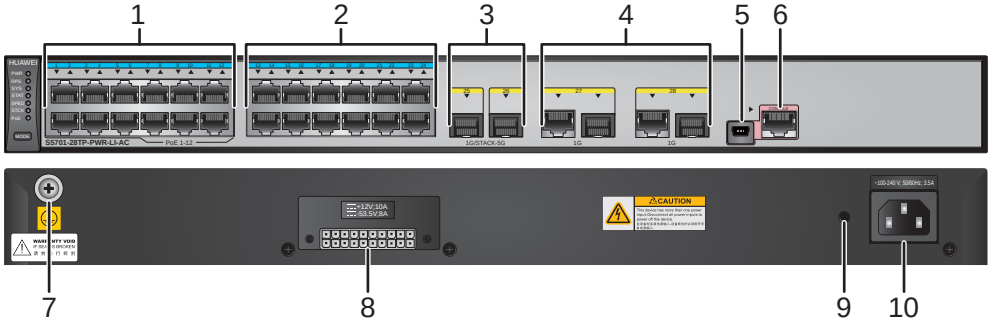
**Figure 4-21** Appearance of the S5700-28TP-PWR-LI-AC



| | | | |
|---|---|---|---|
| 1 | Twenty-four PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Two 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● Stack optical module (applicable in V200R007C00 and later versions)<br>● 1 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables |
| 3 | Two combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module | 4 | One Mini USB port |
| 5 | One console port | 6 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 7 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. | 8 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. |
| 9 | AC socket<br>**NOTE**<br>It is used with an AC power cable. | - | - |

## S5701-28TP-PWR-LI-AC

**Figure 4-22** Appearance of the S5701-28TP-PWR-LI-AC

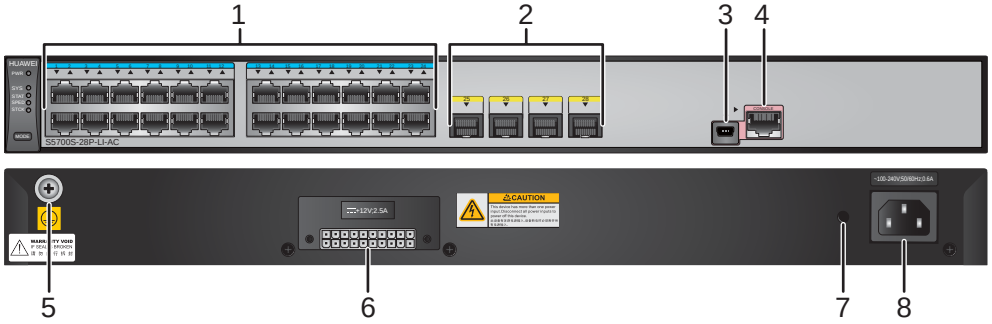


| | | | |
|---|---|---|---|
| 1 | Twelve PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Twelve 10/100/1000BASE-T Ethernet electrical ports |
| 3 | Two 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● Stack optical module (applicable in V200R007C00 and later versions)<br>● 1 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables | 4 | Two combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module |
| 5 | One Mini USB port | 6 | One console port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |
| 9 | Jack for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 10 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

# 4.1.2 S5700S-LI

## S5700S-28P-LI-AC

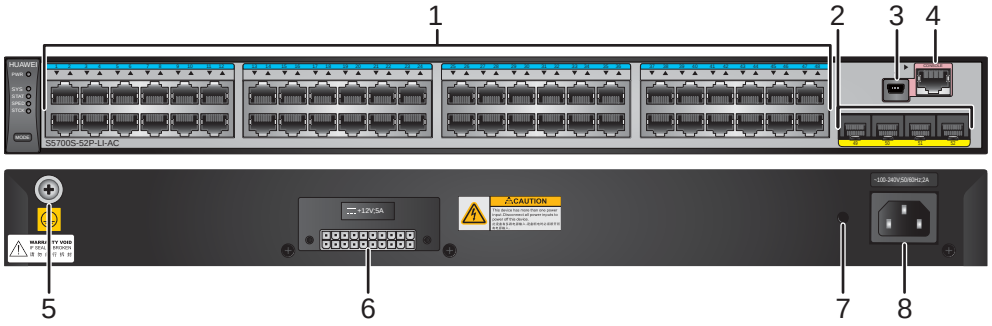
**Figure 4-23** Appearance of the S5700S-28P-LI-AC



| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module (applicable in V200R002C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |
| 7 | Jack reserved for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 8 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

## S5700S-52P-LI-AC

**Figure 4-24** Appearance of the S5700S-52P-LI-AC



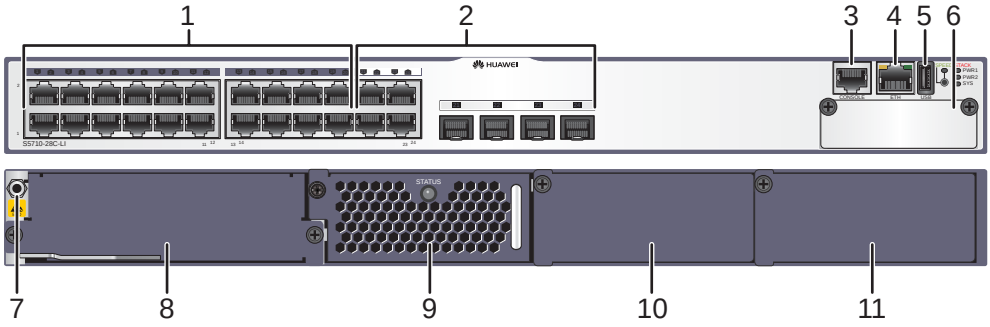

| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module (applicable in V200R002C00 and later versions) |
| 3 | One Mini USB port | 4 | One console port |

| | | | |
|---|---|---|---|
| 5 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 6 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |
| 7 | Jack reserved for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 8 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

# 4.1.3 S5710-LI

## S5710-28C-LI

**Figure 4-25** Appearance of the S5710-28C-LI

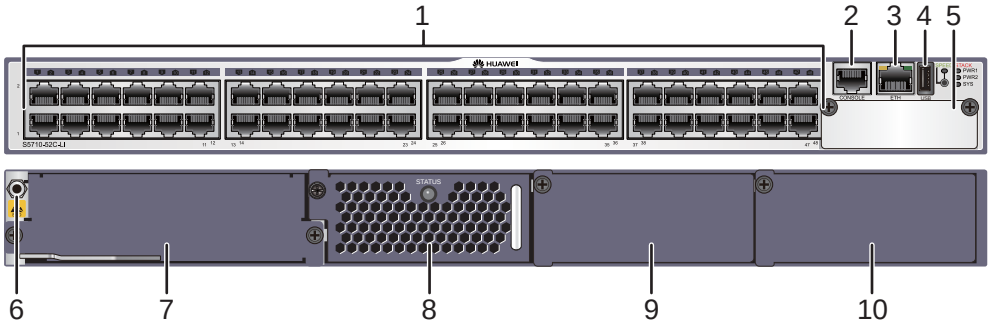



| | | | |
|---|---|---|---|
| 1 | Twenty 10/100/1000BASE-T Ethernet ports | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | One console port | 4 | One ETH management port |
| 5 | One USB port | 6 | Front card slot<br>**NOTE**<br>For details about cards available for different device models, see Cards. |

| | | | |
|---|---|---|---|
| 7 | ESD jack<br>**NOTE**<br>When maintaining components at the rear of a chassis, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 8 | Rear card slot<br>**NOTE**<br>For details about cards available for different device models, see Cards. |
| 9 | Fan module slot<br>**NOTE**<br>Fan module supported:<br>CX7E1FANA fan module | 10 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 150 W AC power module<br>● 150 W DC power module |
| 11 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 150 W AC power module<br>● 150 W DC power module | - | - |

## S5710-52C-LI

**Figure 4-26** Appearance of the S5710-52C-LI

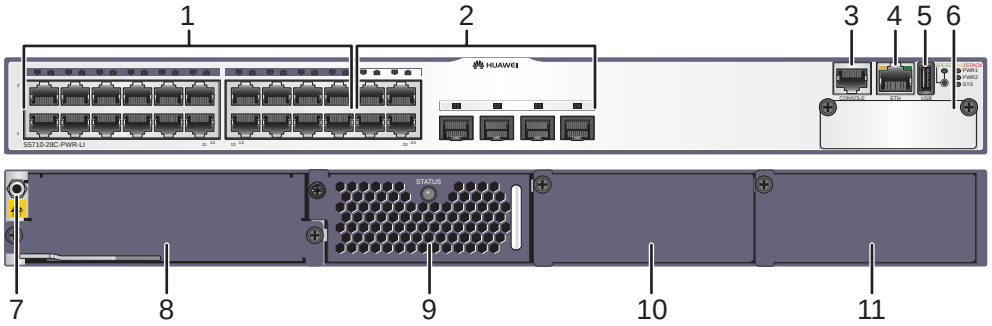



| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet ports | 2 | One console port |
| 3 | One ETH management port | 4 | One USB port |
| 5 | Front card slot<br>**NOTE**<br>For details about cards available for different device models, see Cards. | 6 | ESD jack<br>**NOTE**<br>When maintaining components at the rear of a chassis, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. |
| 7 | Rear card slot<br>**NOTE**<br>For details about cards available for different device models, see Cards. | 8 | Fan module slot<br>**NOTE**<br>Fan module supported:<br>CX7E1FANA fan module |

| | | | |
|---|---|---|---|
| 9 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 150 W AC power module<br>● 150 W DC power module | 10 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 150 W AC power module<br>● 150 W DC power module |

## S5710-28C-PWR-LI

**Figure 4-27** Appearance of the S5710-28C-PWR-LI

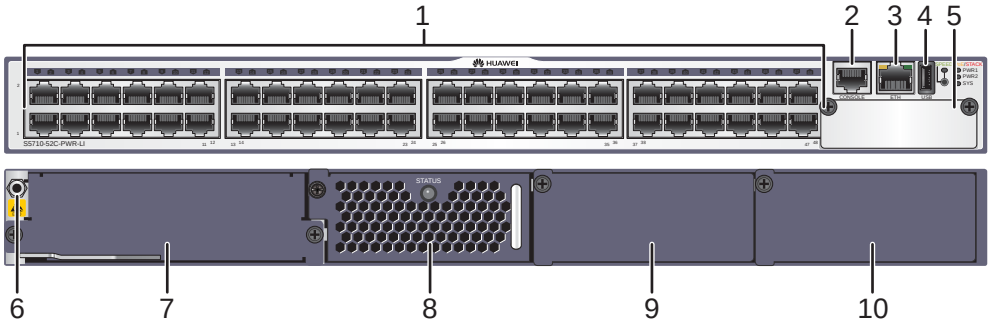



| | | | |
|---|---|---|---|
| 1 | Twenty PoE+ 10/100/1000BASE-T Ethernet ports | 2 | Four combo ports (10/100/1000BASE-T (PoE+) +100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | One console port | 4 | One ETH management port |
| 5 | One USB port | 6 | Front card slot<br>**NOTE**<br>For details about cards available for different device models, see Cards. |
| 7 | ESD jack<br>**NOTE**<br>When maintaining components at the rear of a chassis, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 8 | Rear card slot<br>**NOTE**<br>For details about cards available for different device models, see Cards. |
| 9 | Fan module slot<br>**NOTE**<br>Fan module supported:<br>CX7E1FANA fan module | 10 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE power module<br>● 500 W AC PoE power module |

| | | | |
|---|---|---|---|
| 11 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE power module<br>● 500 W AC PoE power module | - | - |

## S5710-52C-PWR-LI

**Figure 4-28** Appearance of the S5710-52C-PWR-LI

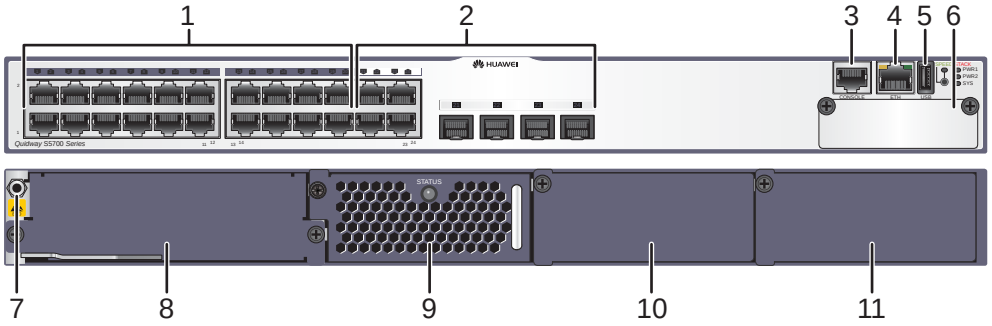



| | | | |
|---|---|---|---|
| 1 | Forty-eight PoE+ 10/100/1000BASE-T Ethernet ports | 2 | One console port |
| 3 | One ETH management port | 4 | One USB port |
| 5 | Front card slot<br>**NOTE**<br>For details about cards available for different device models, see Cards. | 6 | ESD jack<br>**NOTE**<br>When maintaining components at the rear of a chassis, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. |
| 7 | Rear card slot<br>**NOTE**<br>For details about cards available for different device models, see Cards. | 8 | Fan module slot<br>**NOTE**<br>Fan module supported:<br>CX7E1FANA fan module |
| 9 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE power module<br>● 500 W AC PoE power module | 10 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE power module<br>● 500 W AC PoE power module |

# 4.1.4 S5700-SI

## S5700-28C-SI

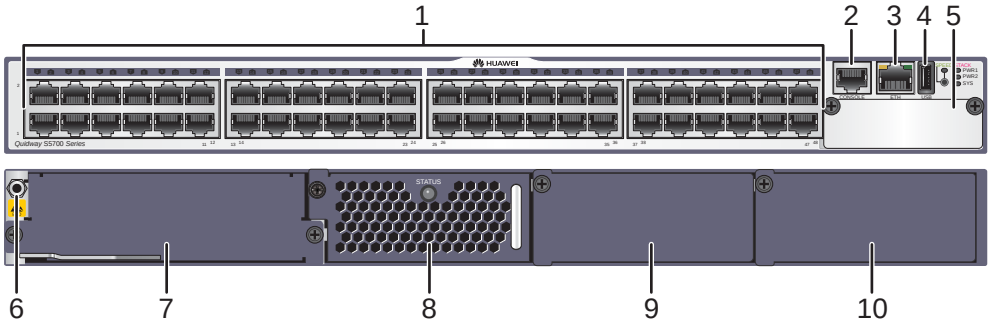
**Figure 4-29** Appearance of the S5700-28C-SI




| | | | |
|---|---|---|---|
| 1 | Twenty 10/100/1000BASE-T Ethernet electrical ports | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | One console port | 4 | One ETH management port |
| 5 | One USB port | 6 | Front card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 7 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 8 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 9 | Fan module slot<br>**NOTE**<br>Available fans:<br>CX7E1FANA Fan Module | 10 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module |
| 11 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module | - | - |

## S5700-52C-SI

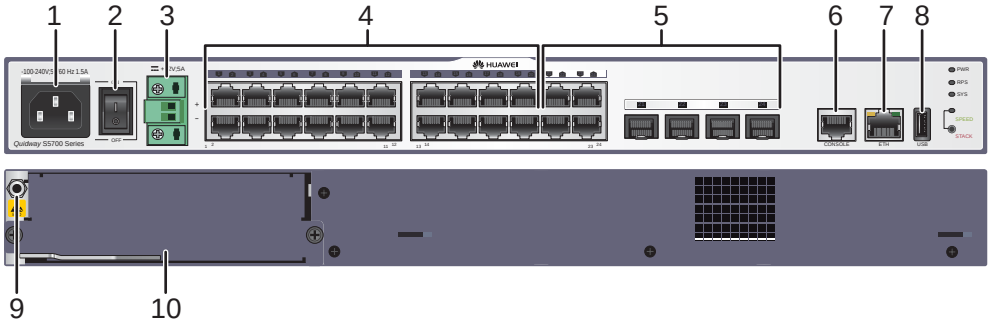
**Figure 4-30** Appearance of the S5700-52C-SI




| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | One console port |
| 3 | One ETH management port | 4 | One USB port |
| 5 | Front card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 6 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. |
| 7 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 8 | Fan module slot<br>**NOTE**<br>Available fans:<br>CX7E1FANA Fan Module |
| 9 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module | 10 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module |

## S5700-24TP-SI-AC

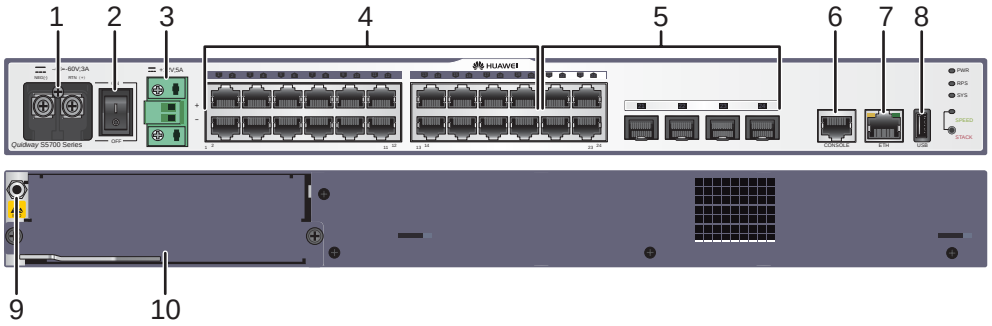
**Figure 4-31** Appearance of the S5700-24TP-SI-AC



| | | | |
|---|---|---|---|
| 1 | AC socket<br>**NOTE**<br>It is used with an AC power cable. | 2 | Power switch |
| 3 | Backup power socket<br>**NOTE**<br>This socket can be connected to a backup power supply unit. The backup power supply unit must provide 12 V DC output voltage (ranging from 11 V to 13 V) and a minimum power of 100 W. | 4 | Twenty 10/100/1000BASE-T Ethernet electrical ports |
| 5 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module | 6 | One console port |
| 7 | One ETH management port | 8 | One USB port |
| 9 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 10 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |

## S5700-24TP-SI-DC

**Figure 4-32** Appearance of the S5700-24TP-SI-DC

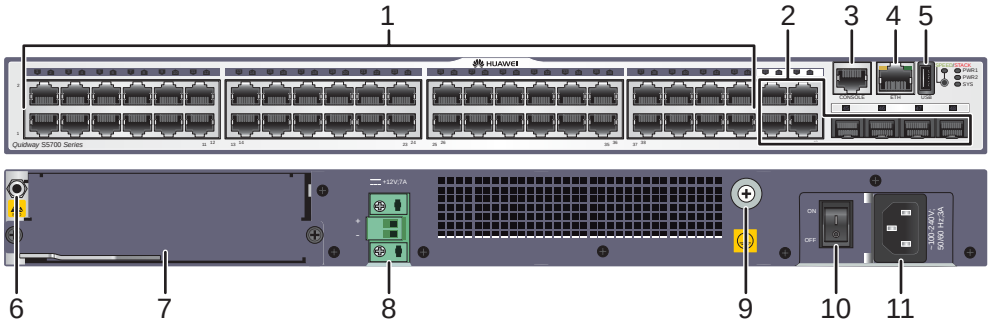



| | | | |
|---|---|---|---|
| 1 | DC power terminal<br>**NOTE**<br>It is used with a DC power cable. | 2 | Power switch |

| | | | |
|---|---|---|---|
| 3 | Backup power socket<br>**NOTE**<br>This socket can be connected to a backup power supply unit. The backup power supply unit must provide 12 V DC output voltage (ranging from 11 V to 13 V) and a minimum power of 100 W. | 4 | Twenty 10/100/1000BASE-T Ethernet electrical ports |
| 5 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module | 6 | One console port |
| 7 | One ETH management port | 8 | One USB port |
| 9 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 10 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |

## S5700-48TP-SI-AC

**Figure 4-33** Appearance of the S5700-48TP-SI-AC

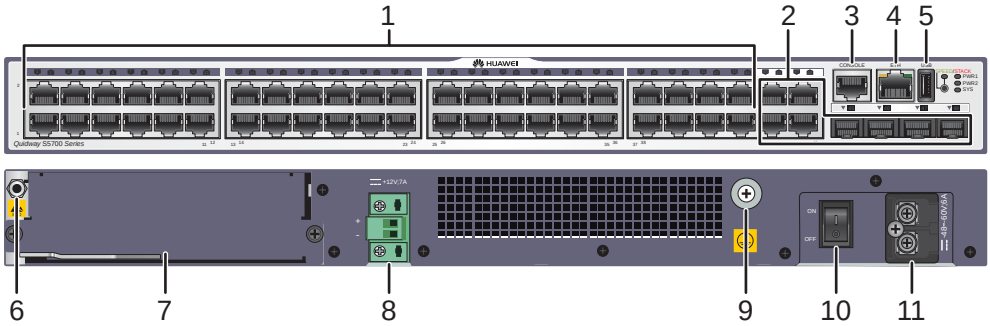



| | | | |
|---|---|---|---|
| 1 | Forty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | One console port | 4 | One ETH management port |

| | | | |
|---|---|---|---|
| 5 | One USB port | 6 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. |
| 7 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 8 | Backup power socket<br>**NOTE**<br>This socket can be connected to a backup power supply unit. The backup power supply unit must provide 12 V DC output voltage (ranging from 11 V to 13 V) and a minimum power of 100 W. |
| 9 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 10 | Power switch |
| 11 | AC socket<br>**NOTE**<br>It is used with an AC power cable. | - | - |

## S5700-48TP-SI-DC

**Figure 4-34** Appearance of the S5700-48TP-SI-DC

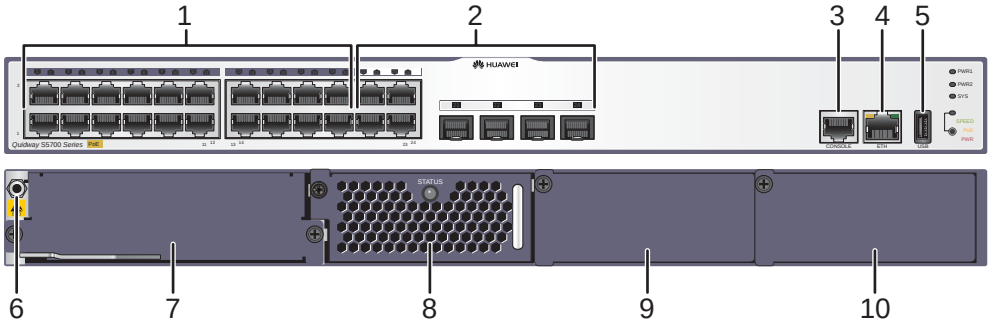



| | | | |
|---|---|---|---|
| 1 | Forty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | One console port | 4 | One ETH management port |

| | | | |
|---|---|---|---|
| 5 | One USB port | 6 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. |
| 7 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 8 | Backup power socket<br>**NOTE**<br>This socket can be connected to a backup power supply unit. The backup power supply unit must provide 12 V DC output voltage (ranging from 11 V to 13 V) and a minimum power of 100 W. |
| 9 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 10 | Power switch |
| 11 | DC power terminal<br>**NOTE**<br>It is used with a DC power cable. | - | - |

## S5700-24TP-PWR-SI

**Figure 4-35** Appearance of the S5700-24TP-PWR-SI

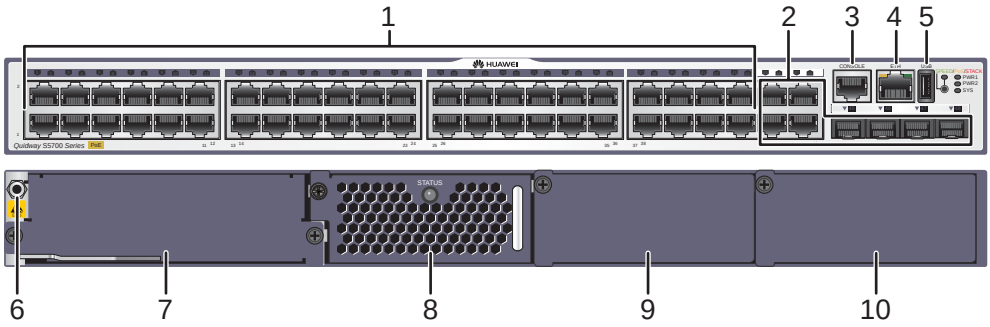



| | | | |
|---|---|---|---|
| 1 | Twenty PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four combo ports (10/100/1000BASE-T (PoE+) +100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | One console port | 4 | One ETH management port |

| | | | |
|---|---|---|---|
| 5 | One USB port | 6 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. |
| 7 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 8 | Fan module slot<br>**NOTE**<br>Available fans:<br>CX7E1FANA Fan Module |
| 9 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module | 10 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module |

## S5700-48TP-PWR-SI

**Figure 4-36** Appearance of the S5700-48TP-PWR-SI

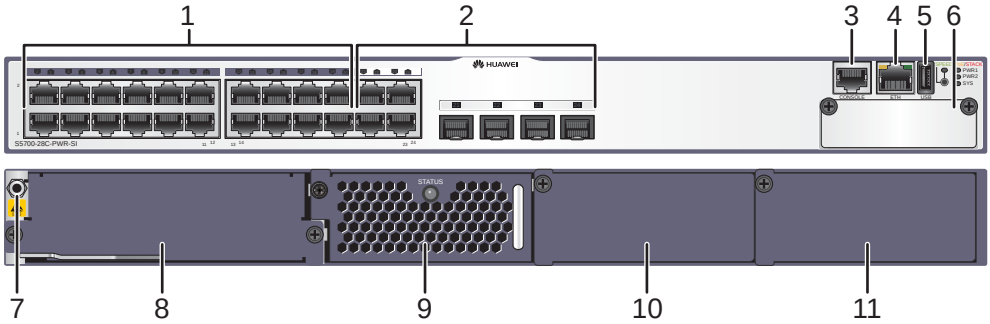



| | | | |
|---|---|---|---|
| 1 | Forty-four PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four combo ports (10/100/1000BASE-T (PoE+) +100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | One console port | 4 | One ETH management port |
| 5 | One USB port | 6 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. |

| | | | |
|---|---|---|---|
| 7 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 8 | Fan module slot<br>**NOTE**<br>Available fans:<br>CX7E1FANA Fan Module |
| 9 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module | 10 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module |

## S5700-28C-PWR-SI

**Figure 4-37** Appearance of the S5700-28C-PWR-SI

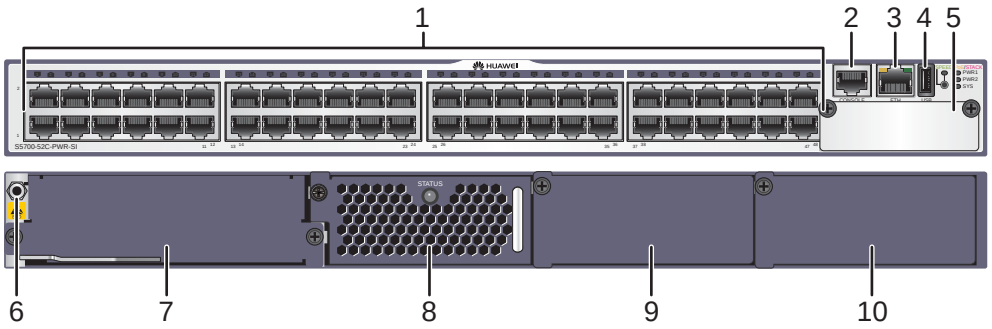



| | | | |
|---|---|---|---|
| 1 | Twenty PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four combo ports (10/100/1000BASE-T (PoE+) +100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | One console port | 4 | One ETH management port |
| 5 | One USB port | 6 | Front card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 7 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 8 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |

| | | | |
|---|---|---|---|
| 9 | Fan module slot<br>**NOTE**<br>Available fans:<br>CX7E1FANA Fan Module | 10 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module |
| 11 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module | - | - |

## S5700-52C-PWR-SI

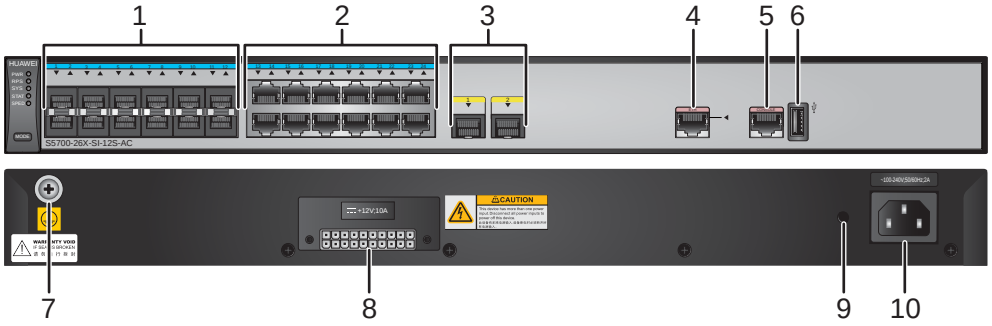
**Figure 4-38** Appearance of the S5700-52C-PWR-SI




| | | | |
|---|---|---|---|
| 1 | Forty-eight PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | One console port |
| 3 | One ETH management port | 4 | One USB port |
| 5 | Front card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 6 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. |
| 7 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 8 | Fan module slot<br>**NOTE**<br>Available fans:<br>CX7E1FANA Fan Module |
| 9 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module | 10 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module |

## S5700-26X-SI-12S-AC

**Figure 4-39** Appearance of the S5700-26X-SI-12S-AC



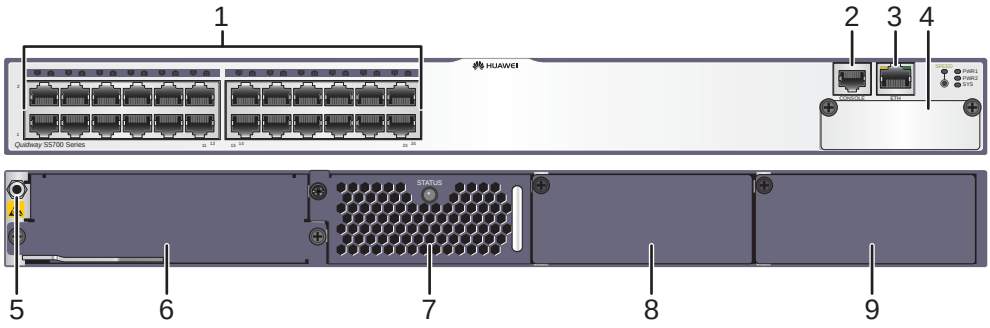

| | | | |
|---|---|---|---|
| 1 | Twelve 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module | 2 | Twelve 10/100/1000BASE-T Ethernet electrical ports |
| 3 | Two 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 version)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) | 4 | One ETH management port |
| 5 | One console port | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | RPS socket<br>**NOTE**<br>It is used with an RPS cable which is not hot swappable. |

| | | | |
|---|---|---|---|
| 9 | Jack reserved for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the device. | 10 | AC socket<br>**NOTE**<br>It is used with an AC power cable. |

# 4.1.5 S5700-EI

## S5700-28C-EI

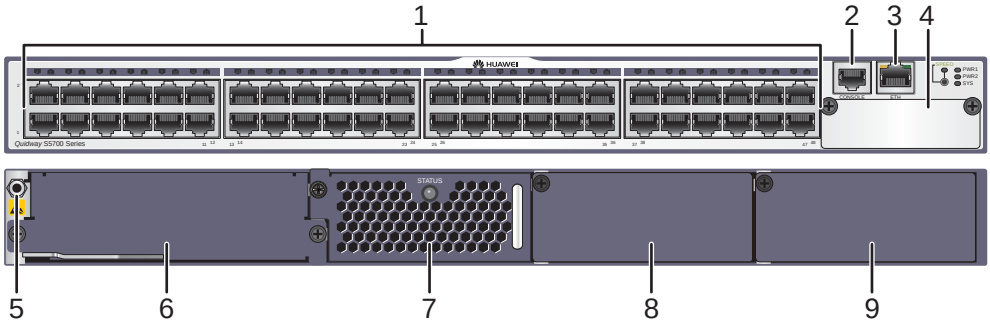
**Figure 4-40** Appearance of the S5700-28C-EI




| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | One console port |
| 3 | One ETH management port | 4 | Front card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 5 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 6 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 7 | Fan module slot<br>**NOTE**<br>Available fans:<br>CX7E1FANA Fan Module | 8 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module |
| 9 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module | - | - |

## S5700-52C-EI

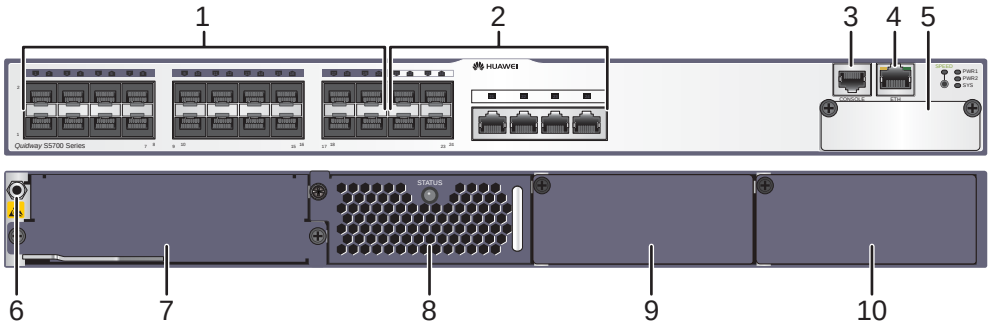
**Figure 4-41** Appearance of the S5700-52C-EI




| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | One console port |
| 3 | One ETH management port | 4 | Front card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 5 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 6 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 7 | Fan module slot<br>**NOTE**<br>Available fans:<br>CX7E1FANA Fan Module | 8 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module |
| 9 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module | - | - |

## S5700-28C-EI-24S

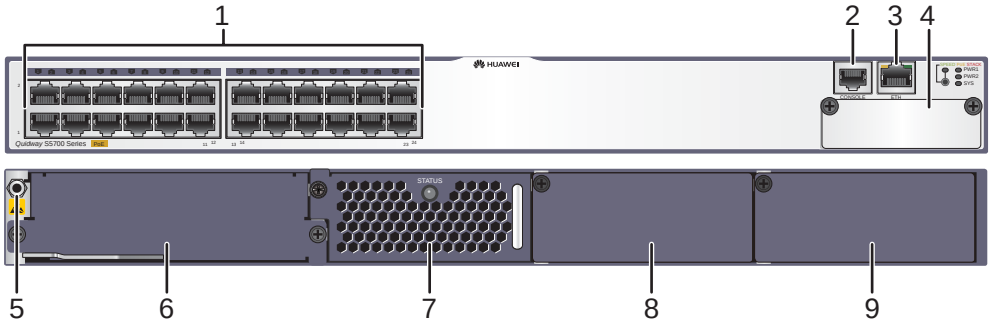
**Figure 4-42** Appearance of the S5700-28C-EI-24S




| | | | |
|---|---|---|---|
| 1 | Twenty 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE SFP copper module | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | One console port | 4 | One ETH management port |
| 5 | Front card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 6 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. |
| 7 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 8 | Fan module slot<br>**NOTE**<br>Available fans:<br>CX7E1FANA Fan Module |
| 9 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module | 10 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module |

## S5700-28C-PWR-EI

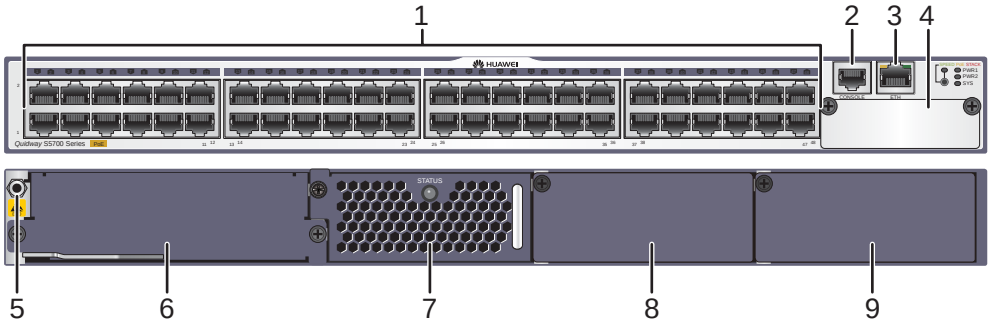
**Figure 4-43** Appearance of the S5700-28C-PWR-EI




| | | | |
|---|---|---|---|
| 1 | Twenty-four PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | One console port |
| 3 | One ETH management port | 4 | Front card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 5 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 6 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 7 | Fan module slot<br>**NOTE**<br>Available fans:<br>CX7E1FANA Fan Module | 8 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module |
| 9 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module | - | - |

### S5700-52C-PWR-EI

**Figure 4-44** Appearance of the S5700-52C-PWR-EI

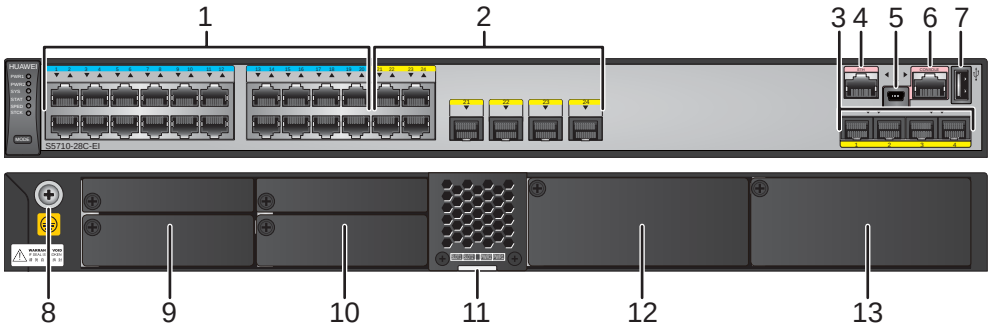



| | | | |
|---|---|---|---|
| 1 | Forty-eight PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | One console port |
| 3 | One ETH management port | 4 | Front card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 5 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 6 | Rear card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 7 | Fan module slot<br>**NOTE**<br>Available fans:<br>CX7E1FANA Fan Module | 8 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module |
| 9 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 250 W AC PoE Power Module<br>● 500 W AC PoE Power Module | - | - |

## 4.1.6 S5710-EI

## S5710-28C-EI

**Figure 4-45** Appearance of the S5710-28C-EI

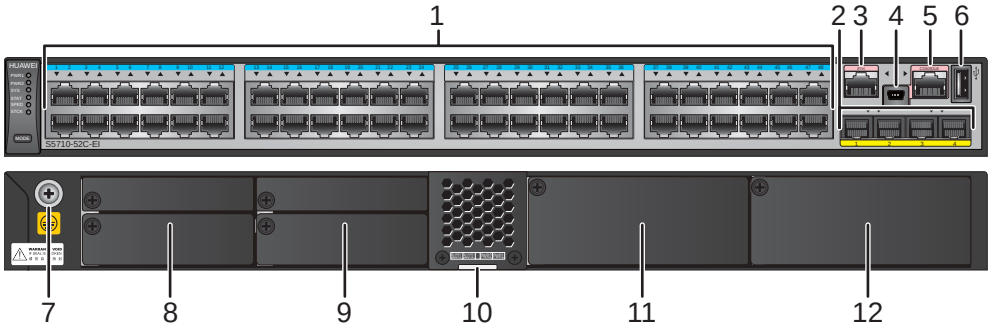



| | | | |
|---|---|---|---|
| 1 | Twenty 10/100/1000BASE-T Ethernet electrical ports | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module |
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical modules<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 version)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) | 4 | One ETH management port |
| 5 | One Mini USB port | 6 | One console port |
| 7 | One USB port | 8 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |

| | | | |
|---|---|---|---|
| 9 | Card slot 1<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 10 | Card slot 2<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 11 | Bar code label<br>**NOTE**<br>This label is drawable, and you can pull it outward to view the bar code and MAC address of the switch. | 12 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module |
| 13 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module | - | - |

## S5710-52C-EI

**Figure 4-46** Appearance of the S5710-52C-EI

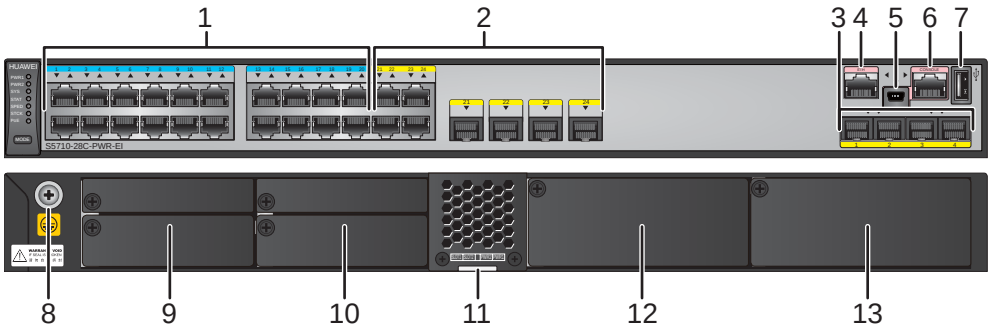



| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical modules<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 version)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One ETH management port | 4 | One Mini USB port |

| | | | |
|---|---|---|---|
| 5 | One console port | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | Card slot 1<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 9 | Card slot 2<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 10 | Bar code label<br>**NOTE**<br>This label is drawable, and you can pull it outward to view the bar code and MAC address of the switch. |
| 11 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module | 12 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 150 W AC Power Module<br>● 150 W DC Power Module |

## S5710-28C-PWR-EI-AC

**Figure 4-47** Appearance of the S5710-28C-PWR-EI-AC

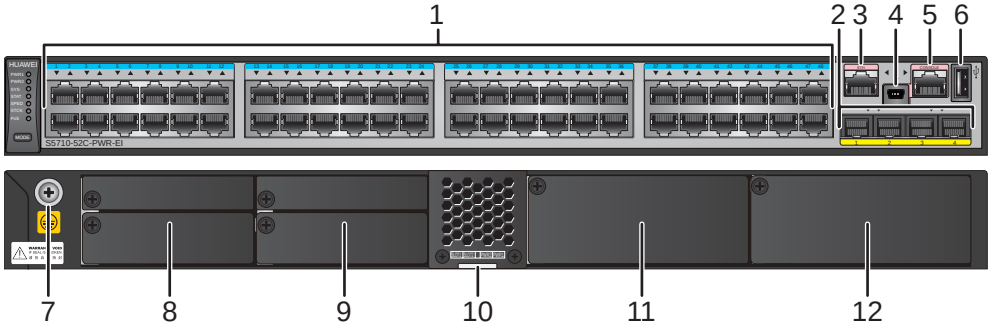



| | | | |
|---|---|---|---|
| 1 | Twenty PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four combo ports (10/100/1000BASE-T (PoE+) +100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module |

| | | | |
|---|---|---|---|
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical modules<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 version)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) | 4 | One ETH management port |
| 5 | One Mini USB port | 6 | One console port |
| 7 | One USB port | 8 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 9 | Card slot 1<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 10 | Card slot 2<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 11 | Bar code label<br>**NOTE**<br>This label is drawable, and you can pull it outward to view the bar code and MAC address of the switch. | 12 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 580 W AC PoE Power Module |
| 13 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 580 W AC PoE Power Module | - | - |

## S5710-52C-PWR-EI-AC

**Figure 4-48** Appearance of the S5710-52C-PWR-EI-AC



**NOTE**

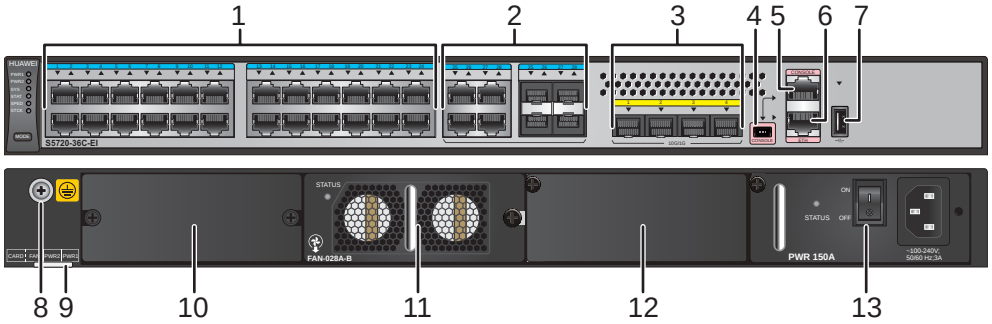
The S5710-52C-PWR-EI and S5710-52C-PWR-EI-AC have the same appearance and provide the same functions. The S5710-52C-PWR-EI-AC is sold with a 580 W internal power module, but the S5710-52C-PWR-EI is sold without a power module.

| | | | |
|---|---|---|---|
| 1 | Forty-eight PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical modules<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 version)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | One ETH management port | 4 | One Mini USB port |
| 5 | One console port | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | Card slot 1<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 9 | Card slot 2<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. | 10 | Bar code label<br>**NOTE**<br>This label is drawable, and you can pull it outward to view the bar code and MAC address of the switch. |
| 11 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 580 W AC PoE Power Module<br>● 1150 W AC PoE Power Module (supported only on the S5710-52C-PWR-EI) | 12 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 580 W AC PoE Power Module<br>● 1150 W AC PoE Power Module (supported only on the S5710-52C-PWR-EI) |

## 4.1.7 S5720-EI

## S5720-36C-EI-AC

**Figure 4-49** Appearance of the S5720-36C-EI-AC

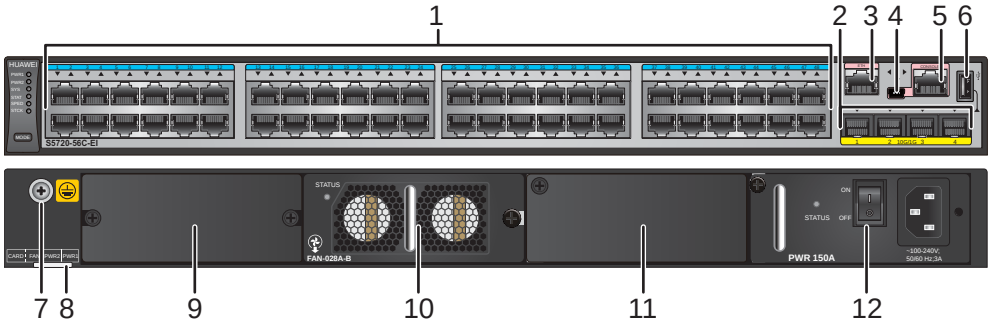



| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One ETH management port |
| 7 | One USB port | 8 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |

| | | | |
|---|---|---|---|
| 9 | Equipment serial number (ESN) label<br>**NOTE**<br>You can draw it out to view the ESN and MAC address of the switch. | 10 | Extended card slot<br>Applicable cards:<br>● ES5D21X02S01<br>● ES5D21X02T01<br>● ES5D21VST000 |
| 11 | Fan module slot<br>Applicable fan module: FAN-028A-B | 12 | Power module slot 2<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module |
| 13 | Power module slot 1<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module | - | - |

## S5720-56C-EI-AC

**Figure 4-50** Appearance of the S5720-56C-EI-AC

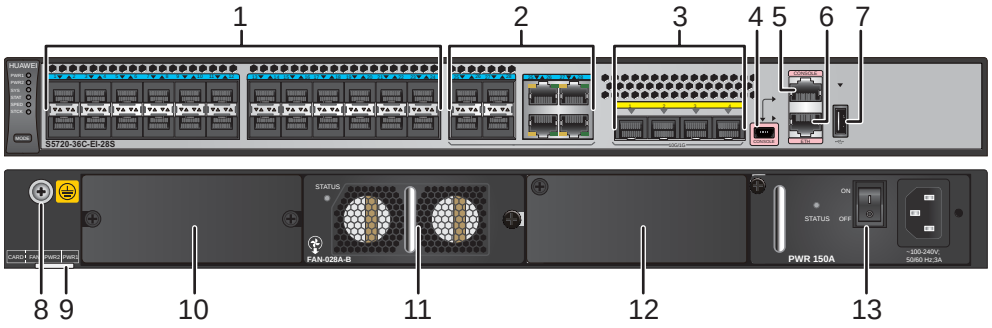



| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables |

| | | | |
|---|---|---|---|
| 3 | One ETH management port | 4 | One Mini USB port |
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | Equipment serial number (ESN) label<br>**NOTE**<br>You can draw it out to view the ESN and MAC address of the switch. |
| 9 | Extended card slot<br>Applicable cards:<br>● ES5D21X02S01<br>● ES5D21X02T01<br>● ES5D21VST000 | 10 | Fan module slot<br>Applicable fan module: FAN-028A-B |
| 11 | Power module slot 2<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module | 12 | Power module slot 1<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module |

## S5720-36C-EI-28S-AC

**Figure 4-51** Appearance of the S5720-36C-EI-28S-AC

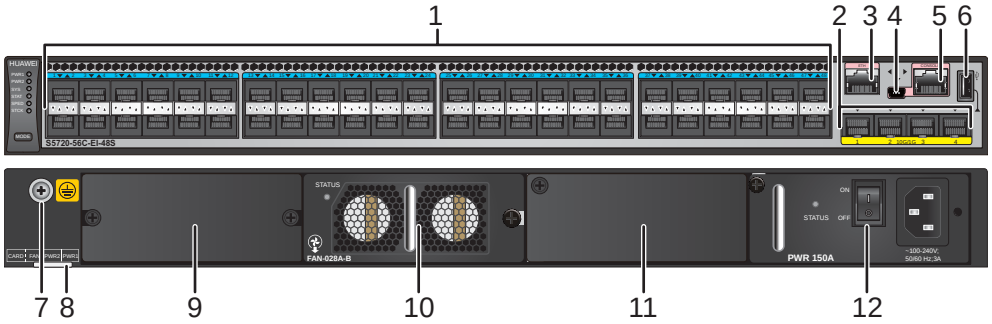



| | | | |
|---|---|---|---|
| 1 | Twenty-four 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE copper module | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |

| | | | |
|---|---|---|---|
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One ETH management port |
| 7 | One USB port | 8 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 9 | Equipment serial number (ESN) label<br>**NOTE**<br>You can draw it out to view the ESN and MAC address of the switch. | 10 | Extended card slot<br>Applicable cards:<br>● ES5D21X02S01<br>● ES5D21X02T01<br>● ES5D21VST000 |
| 11 | Fan module slot<br>Applicable fan module: FAN-028A-B | 12 | Power module slot 2<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module |
| 13 | Power module slot 1<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module | - | - |

## S5720-56C-EI-48S-AC

**Figure 4-52** Appearance of the S5720-56C-EI-48S-AC

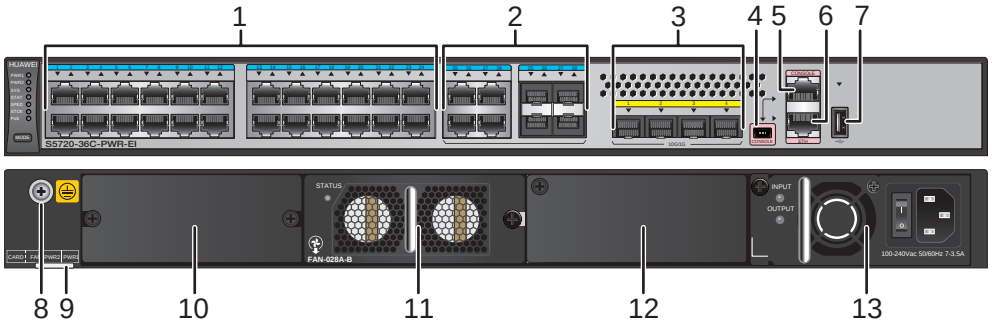



| | | | |
|---|---|---|---|
| 1 | Forty-eight 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE copper module | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables |
| 3 | One ETH management port | 4 | One Mini USB port |
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | Equipment serial number (ESN) label<br>**NOTE**<br>You can draw it out to view the ESN and MAC address of the switch. |
| 9 | Extended card slot<br>Applicable cards:<br>● ES5D21X02S01<br>● ES5D21X02T01<br>● ES5D21VST000 | 10 | Fan module slot<br>Applicable fan module: FAN-028A-B |

| | | | |
|---|---|---|---|
| 11 | Power module slot 2<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module | 12 | Power module slot 1<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module |

## S5720-36C-PWR-EI-AC

**Figure 4-53** Appearance of the S5720-36C-PWR-EI-AC

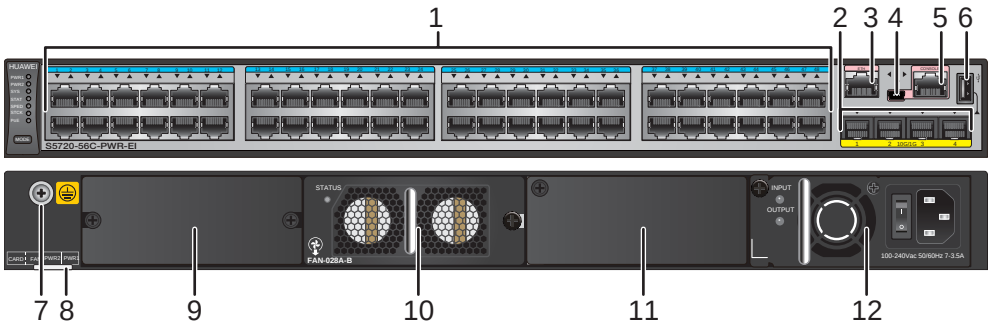



| | | | |
|---|---|---|---|
| 1 | Twenty-four PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four combo ports (10/100/1000BASE-T (PoE+) + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |

| | | | |
|---|---|---|---|
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One ETH management port |
| 7 | One USB port | 8 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 9 | Equipment serial number (ESN) label<br>**NOTE**<br>You can draw it out to view the ESN and MAC address of the switch. | 10 | Extended card slot<br>Applicable cards:<br>● ES5D21X02S01<br>● ES5D21X02T01<br>● ES5D21VST000 |
| 11 | Fan module slot<br>Applicable fan module: FAN-028A-B | 12 | Power module slot 2<br>Applicable power modules:<br>● 500 W AC PoE power module<br>● 650 W DC PoE power module |
| 13 | Power module slot 1<br>Applicable power modules:<br>● 500 W AC PoE power module<br>● 650 W DC PoE power module | - | - |

## S5720-56C-PWR-EI-AC

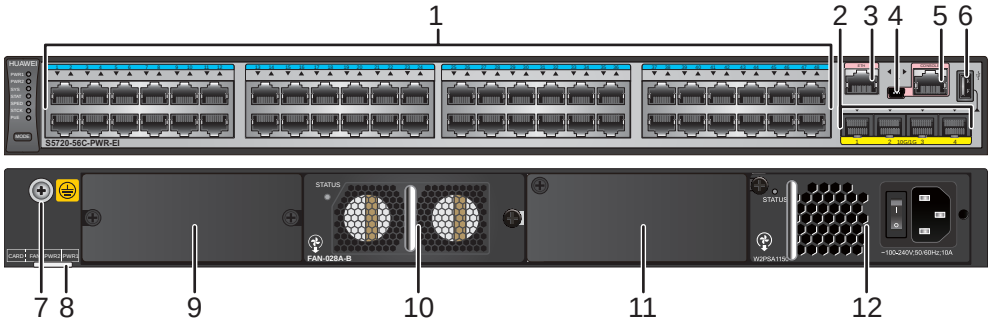
**Figure 4-54** Appearance of the S5720-56C-PWR-EI-AC



| | | | |
|---|---|---|---|
| 1 | Forty-eight PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables |
| 3 | One ETH management port | 4 | One Mini USB port |
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | Equipment serial number (ESN) label<br>**NOTE**<br>You can draw it out to view the ESN and MAC address of the switch. |
| 9 | Extended card slot<br>Applicable cards:<br>● ES5D21X02S01<br>● ES5D21X02T01<br>● ES5D21VST000 | 10 | Fan module slot<br>Applicable fan module: FAN-028A-B |
| 11 | Power module slot 2<br>Applicable power modules:<br>● 500 W AC PoE power module<br>● 650 W DC PoE power module | 12 | Power module slot 1<br>Applicable power modules:<br>● 500 W AC PoE power module<br>● 650 W DC PoE power module |

## S5720-56C-PWR-EI-AC1

**Figure 4-55** Appearance of the S5720-56C-PWR-EI-AC1




**NOTE**

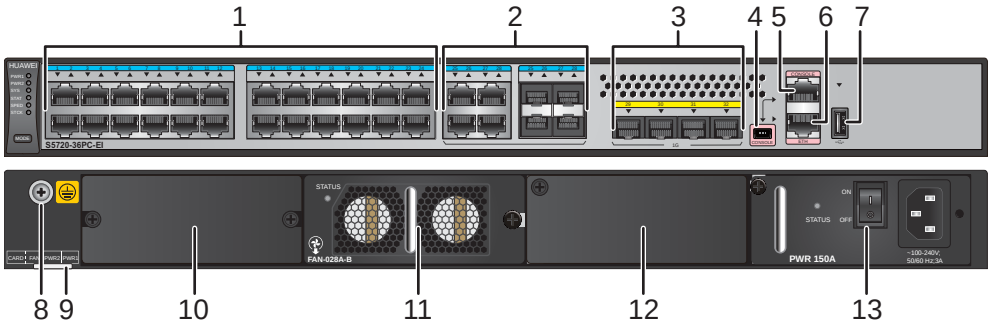
The S5720-56C-PWR-EI-AC1 and S5720-56C-PWR-EI-AC have the same appearance. The difference lies in the power modules delivered with them. The S5720-56C-PWR-EI-AC1 is delivered with a 1150 W AC PoE power module by default, whereas the S5720-56C-PWR-EI-AC is delivered with a 500 W AC PoE power module by default.

| | | | |
|---|---|---|---|
| 1 | Forty-eight PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables |
| 3 | One ETH management port | 4 | One Mini USB port |
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | Equipment serial number (ESN) label<br>**NOTE**<br>You can draw it out to view the ESN and MAC address of the switch. |

| | | | |
|---|---|---|---|
| 9 | Extended card slot<br>Applicable cards:<br>● ES5D21X02S01<br>● ES5D21X02T01<br>● ES5D21VST000 | 10 | Fan module slot<br>Applicable fan module: FAN-028A-B |
| 11 | Power module slot 2<br>Applicable power module: 1150 W AC PoE power module | 12 | Power module slot 1<br>Applicable power module: 1150 W AC PoE power module |

## S5720-36PC-EI-AC

**Figure 4-56** Appearance of the S5720-36PC-EI-AC

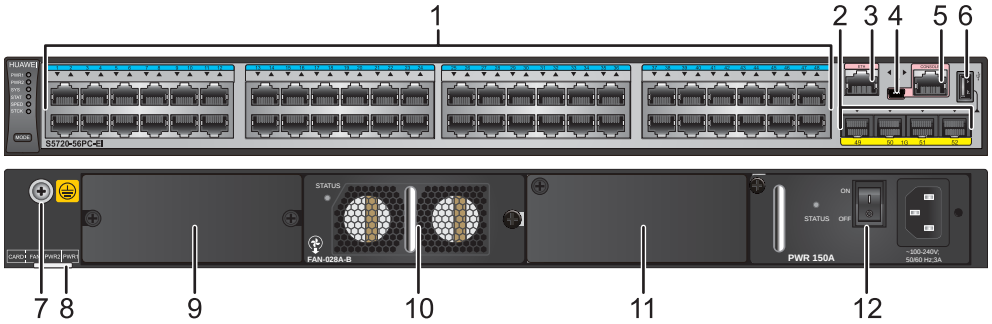



| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module |
| 3 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 1 m. 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |

| | | | |
|---|---|---|---|
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One ETH management port |
| 7 | One USB port | 8 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 9 | Equipment serial number (ESN) label<br>**NOTE**<br>You can draw it out to view the ESN and MAC address of the switch. | 10 | Extended card slot<br>Applicable cards:<br>● ES5D21X02S01<br>● ES5D21X02T01<br>● ES5D21VST000 |
| 11 | Fan module slot<br>Applicable fan module: FAN-028A-B | 12 | Power module slot 2<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module |
| 13 | Power module slot 1<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module | - | - |

## S5720-56PC-EI-AC

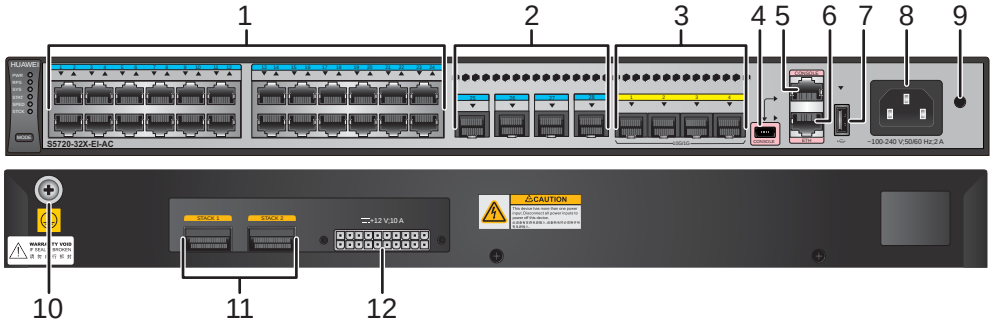
**Figure 4-57** Appearance of the S5720-56PC-EI-AC



| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 1 m. 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables |
| 3 | One ETH management port | 4 | One Mini USB port |
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | Equipment serial number (ESN) label<br>**NOTE**<br>You can draw it out to view the ESN and MAC address of the switch. |
| 9 | Extended card slot<br>Applicable cards:<br>● ES5D21X02S01<br>● ES5D21X02T01<br>● ES5D21VST000 | 10 | Fan module slot<br>Applicable fan module: FAN-028A-B |
| 11 | Power module slot 2<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module | 12 | Power module slot 1<br>Applicable power modules:<br>● 150 W AC power module<br>● 150 W DC power module |

## S5720-32X-EI-AC

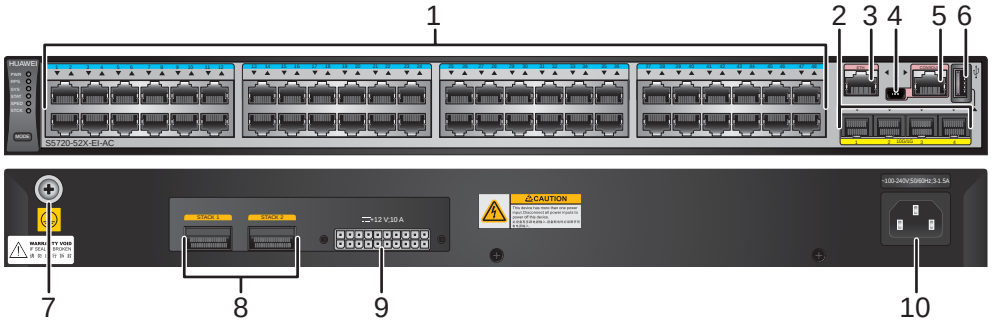
**Figure 4-58** Appearance of the S5720-32X-EI-AC



| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE copper module |
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One ETH management port |
| 7 | One USB port | 8 | AC power socket<br>**NOTE**<br>It is used with an AC power cable. |
| 9 | Jack reserved for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 10 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 11 | Two QSFP+ stack optical ports<br>Applicable modules and cables:<br>● QSFP+ optical module (only QSFP-40G-SR4 and QSFP-40G-iSR4 supported)<br>● 1 m, 3 m, 5 m QSFP+ copper cables | 12 | RPS socket<br>**NOTE**<br>It is used with an RPS cable, which is not hot swappable. |

## S5720-52X-EI-AC

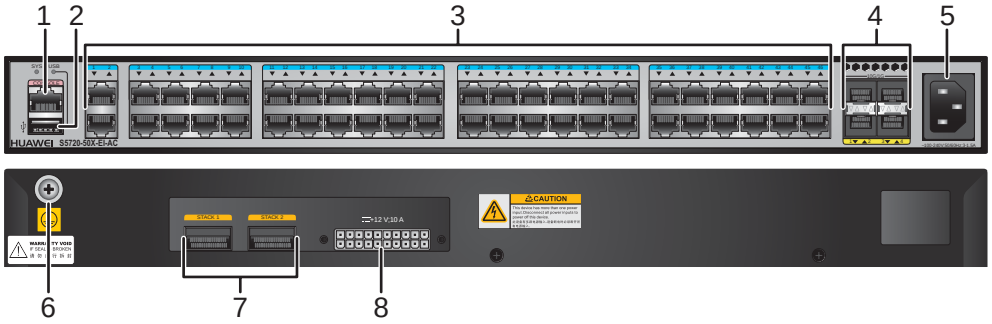
**Figure 4-59** Appearance of the S5720-52X-EI-AC




| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables |
| 3 | One ETH management port | 4 | One Mini USB port |
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | Two QSFP+ stack optical ports<br>Applicable modules and cables:<br>● QSFP+ optical module (only QSFP-40G-SR4 and QSFP-40G-iSR4 supported)<br>● 1 m, 3 m, 5 m QSFP+ copper cables |
| 9 | RPS socket<br>**NOTE**<br>It is used with an RPS cable, which is not hot swappable. | 10 | AC power socket<br>**NOTE**<br>It is used with an AC power cable. |

## S5720-50X-EI-AC

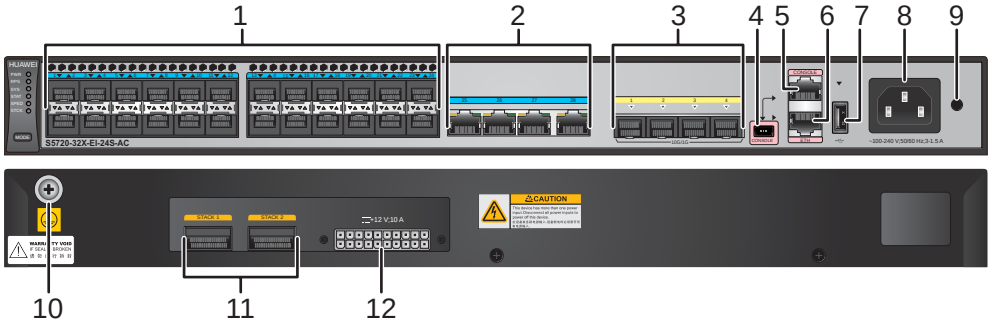
**Figure 4-60** Appearance of the S5720-50X-EI-AC




| | | | |
|---|---|---|---|
| 1 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 2 | One USB port |
| 3 | Forty-six 10/100/1000BASE-T Ethernet electrical ports | 4 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables |
| 5 | AC power socket<br>**NOTE**<br>It is used with an AC power cable. | 6 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 7 | Two QSFP+ stack optical ports<br>Applicable modules and cables:<br>● QSFP+ optical module (only QSFP-40G-SR4 and QSFP-40G-iSR4 supported)<br>● 1 m, 3 m, 5 m QSFP+ copper cables | 8 | RPS socket<br>**NOTE**<br>It is used with an RPS cable, which is not hot swappable. |

## S5720-32X-EI-24S-AC

**Figure 4-61** Appearance of the S5720-32X-EI-24S-AC

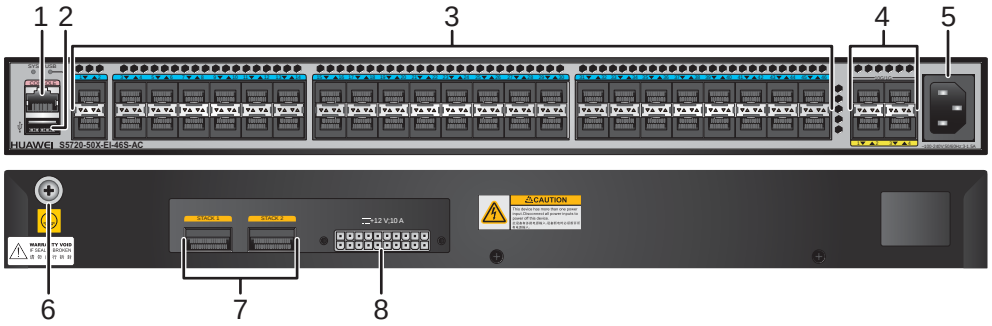



| | | | |
|---|---|---|---|
| 1 | Twenty-four 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE copper module | 2 | Four 10/100/1000BASE-T Ethernet electrical ports |
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One ETH management port |
| 7 | One USB port | 8 | AC power socket<br>**NOTE**<br>It is used with an AC power cable. |

| | | | |
|---|---|---|---|
| 9 | Jack reserved for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 10 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 11 | Two QSFP+ stack optical ports<br>Applicable modules and cables:<br>● QSFP+ optical module (only QSFP-40G-SR4 and QSFP-40G-iSR4 supported)<br>● 1 m, 3 m, 5 m QSFP+ copper cables | 12 | RPS socket<br>**NOTE**<br>It is used with an RPS cable, which is not hot swappable. |

## S5720-50X-EI-46S-AC

**Figure 4-62** Appearance of the S5720-50X-EI-46S-AC

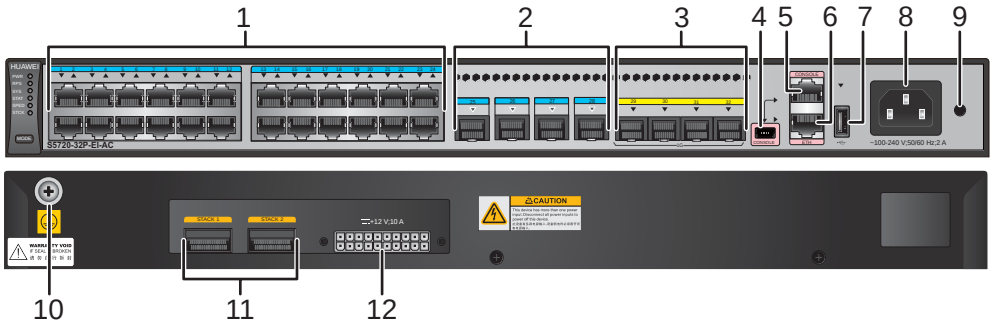



| | | | |
|---|---|---|---|
| 1 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 2 | One USB port |
| 3 | Forty-six 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE copper module | 4 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (OSXD22N00 not supported)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables |

| | | | |
|---|---|---|---|
| 5 | AC power socket<br>**NOTE**<br>It is used with an AC power cable. | 6 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 7 | Two QSFP+ stack optical ports<br>Applicable modules and cables:<br>● QSFP+ optical module (only QSFP-40G-SR4 and QSFP-40G-iSR4 supported)<br>● 1 m, 3 m, 5 m QSFP+ copper cables | 8 | RPS socket<br>**NOTE**<br>It is used with an RPS cable, which is not hot swappable. |

## S5720-32P-EI-AC

**Figure 4-63** Appearance of the S5720-32P-EI-AC

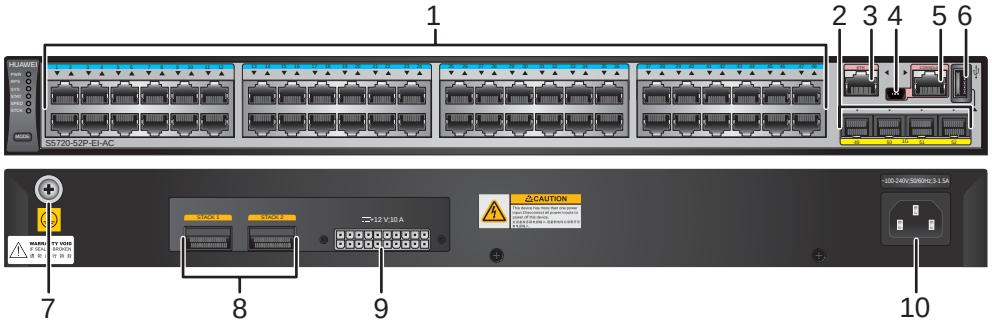



| | | | |
|---|---|---|---|
| 1 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE copper module |
| 3 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 1 m. 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |

| | | | |
|---|---|---|---|
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One ETH management port |
| 7 | One USB port | 8 | AC power socket<br>**NOTE**<br>It is used with an AC power cable. |
| 9 | Jack reserved for AC terminal locking latch<br>**NOTE**<br>The AC terminal locking latch is not delivered with the switch. | 10 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 11 | Two QSFP+ stack optical ports<br>Applicable modules and cables:<br>● QSFP+ optical module (only QSFP-40G-SR4 and QSFP-40G-iSR4 supported)<br>● 1 m, 3 m, 5 m QSFP+ copper cables | 12 | RPS socket<br>**NOTE**<br>It is used with an RPS cable, which is not hot swappable. |

## S5720-52P-EI-AC

**Figure 4-64** Appearance of the S5720-52P-EI-AC



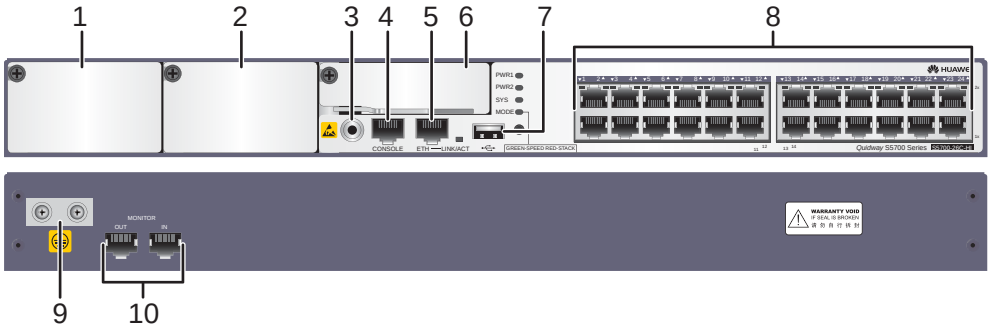

| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 1000BASE-X Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 1 m. 10 m SFP+ high-speed cables<br>● 3 m, 10 m AOC cables |

| | | | |
|---|---|---|---|
| 3 | One ETH management port | 4 | One Mini USB port |
| 5 | One console port<br>**NOTE**<br>It is used with a console cable. The console cable is not delivered with the switch and needs to be separately purchased if needed. | 6 | One USB port |
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | Two QSFP+ stack optical ports<br>Applicable modules and cables:<br>● QSFP+ optical module (only QSFP-40G-SR4 and QSFP-40G-iSR4 supported)<br>● 1 m, 3 m, 5 m QSFP+ copper cables |
| 9 | RPS socket<br>**NOTE**<br>It is used with an RPS cable, which is not hot swappable. | 10 | AC power socket<br>**NOTE**<br>It is used with an AC power cable. |

# 4.1.8 S5700-HI

## S5700-28C-HI

**Figure 4-65** Appearance of the S5700-28C-HI

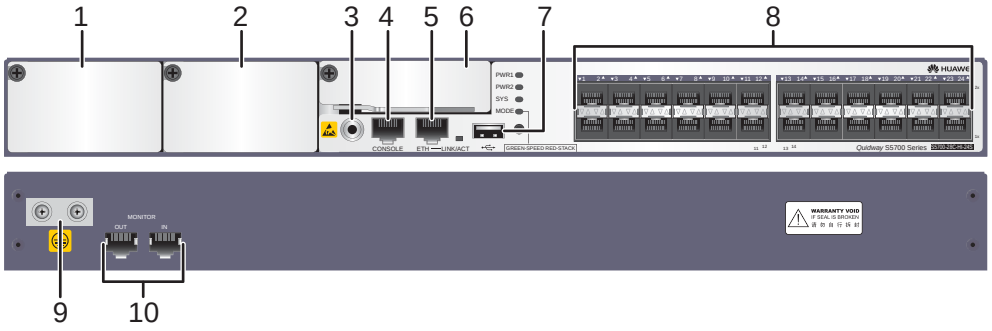



| | | | |
|---|---|---|---|
| 1 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 170 W AC Power Module<br>● 170 W DC Power Module | 2 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 170 W AC Power Module<br>● 170 W DC Power Module |
| 3 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 4 | One console port |

| | | | |
|---|---|---|---|
| 5 | One ETH management port | 6 | Front card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |
| 7 | One USB port | 8 | Twenty-four 10/100/1000BASE-T Ethernet electrical ports |
| 9 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 10 | Monitoring port<br>**NOTE**<br>The monitoring port monitors the cabinet door, power module, battery power, and power supply of the air conditioner. |

## S5700-28C-HI-24S

**Figure 4-66** Appearance of the S5700-28C-HI-24S



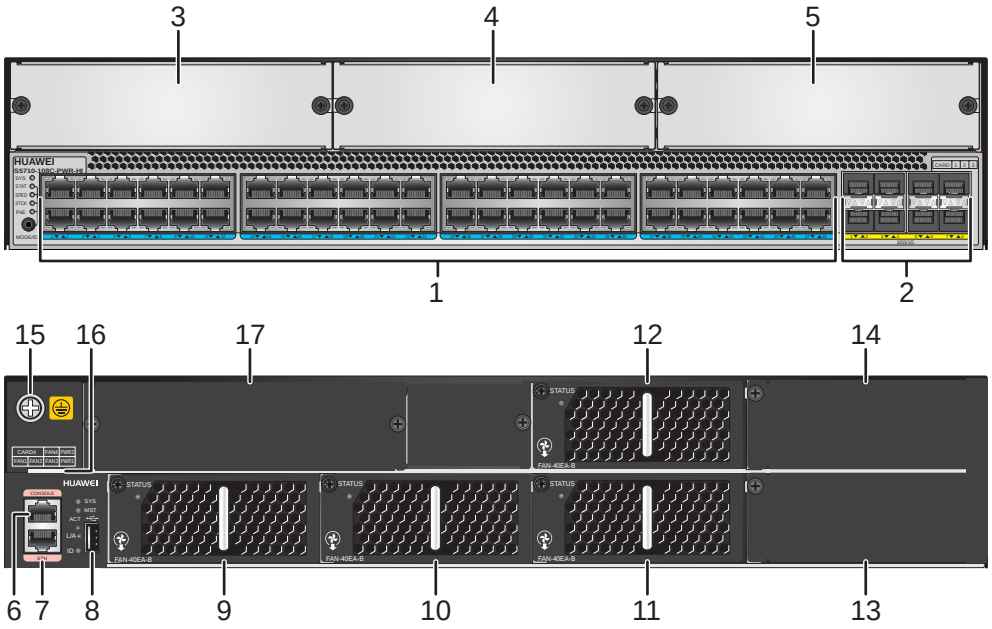

| | | | |
|---|---|---|---|
| 1 | Power module slot 1<br>**NOTE**<br>Available power modules:<br>● 170 W AC Power Module<br>● 170 W DC Power Module | 2 | Power module slot 2<br>**NOTE**<br>Available power modules:<br>● 170 W AC Power Module<br>● 170 W DC Power Module |
| 3 | ESD jack<br>**NOTE**<br>When you install or maintain a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack. | 4 | One console port |
| 5 | One ETH management port | 6 | Front card slot<br>**NOTE**<br>For details about the mapping between cards and switches, see Cards. |

| | | | |
|---|---|---|---|
| 7 | One USB port | 8 | Twenty-four 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE SFP copper module |
| 9 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 10 | Monitoring port<br>**NOTE**<br>The monitoring port monitors the cabinet door, power module, battery power, and power supply of the air conditioner. |

# 4.1.9 S5710-HI

## S5710-108C-PWR-HI

**Figure 4-67** Appearance of the S5710-108C-PWR-HI



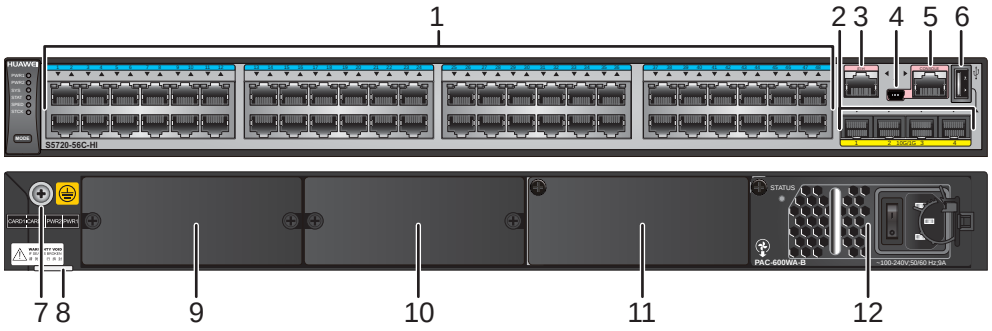
| | | | |
|---|---|---|---|
| 1 | Forty-eight PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Eight 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE SFP copper module<br>● 10GE SFP+ optical module<br>● 10GE-CWDM optical module (applicable in V200R005C00 version)<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables (applicable in V200R003C00 and later versions) |
| 3 | Card slot 1<br>**NOTE**<br>Available cards:<br>● ES5D21G16S00<br>● ES5D21G16T00 | 4 | Card slot 2<br>**NOTE**<br>Available cards:<br>● ES5D21G16S00<br>● ES5D21G16T00 |
| 5 | Card slot 3<br>**NOTE**<br>Available cards:<br>● ES5D21G16S00<br>● ES5D21G16T00 | 6 | One console port |
| 7 | One ETH management port | 8 | One USB port |
| 9 | Fan slot 1<br>**NOTE**<br>Available fan module: FAN-40EA-B fan module | 10 | Fan slot 2<br>**NOTE**<br>Available fan module: FAN-40EA-B fan module |
| 11 | Fan slot 3<br>**NOTE**<br>Available fan module: FAN-40EA-B fan module | 12 | Fan slot 4<br>**NOTE**<br>Available fan module: FAN-40EA-B fan module |
| 13 | Power module slot 1<br>**NOTE**<br>Available power module:<br>● 350 W AC power module<br>● 1150 W AC PoE power module | 14 | Power module slot 2<br>**NOTE**<br>Available power module:<br>● 350 W AC power module<br>● 1150 W AC PoE power module |

| | | | |
|---|---|---|---|
| 15 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 16 | Bar code label<br>**NOTE**<br>This label is drawable, and you can pull it outward to view the bar code and MAC address of the switch. |
| 17 | Card slot 4<br>**NOTE**<br>Available cards:<br>● ES5D21L04Q00<br>● ES5D21X04S00 | - | - |

# 4.1.10 S5720-HI

## S5720-56C-HI-AC

**Figure 4-68** Appearance of the S5720-56C-HI-AC

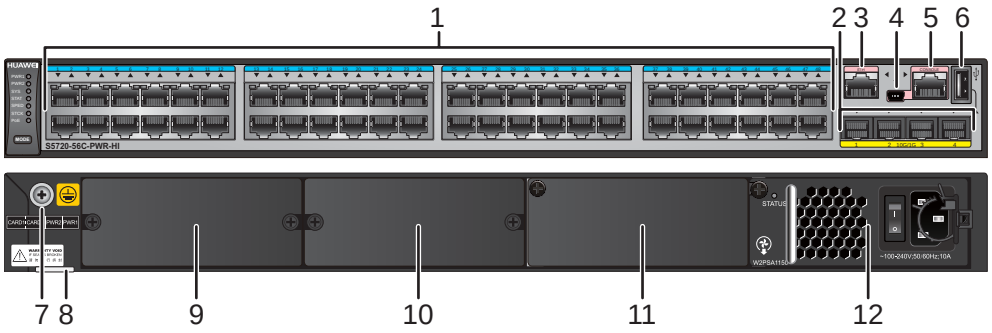



| | | | |
|---|---|---|---|
| 1 | Forty-eight 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (not support OSXD22N00)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables |
| 3 | One ETH management port | 4 | One Mini USB port |
| 5 | One console port | 6 | One USB port |

| | | | |
|---|---|---|---|
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | Bar code label<br>**NOTE**<br>This label is drawable, and you can pull it outward to view the bar code and MAC address of the switch. |
| 9 | Extended card slot 1<br>**NOTE**<br>This slot is reserved for a stack card. | 10 | Extended card slot 2<br>**NOTE**<br>This slot support the ES5D21X04S01 card. |
| 11 | Power module slot 2<br>**NOTE**<br>Applicable power modules:<br>● 350 W DC power module<br>● 600 W AC power module | 12 | Power module slot 1<br>**NOTE**<br>Applicable power modules:<br>● 350 W DC power module<br>● 600 W AC power module |

## S5720-56C-PWR-HI-AC

**Figure 4-69** Appearance of the S5720-56C-PWR-HI-AC

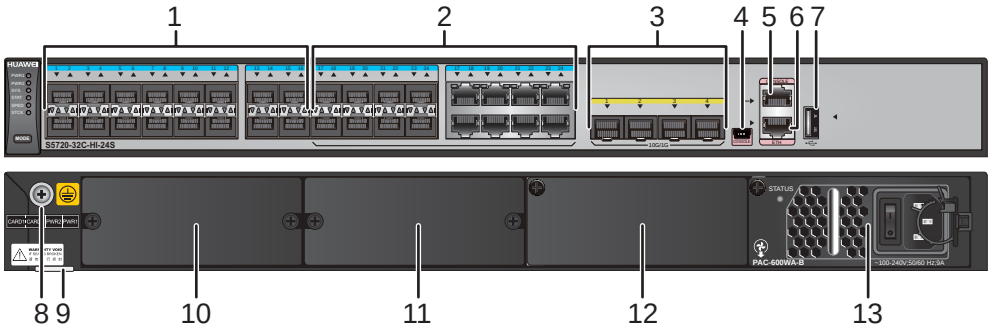



| | | | |
|---|---|---|---|
| 1 | Forty-eight PoE+ 10/100/1000BASE-T Ethernet electrical ports | 2 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (not support OSXD22N00)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables |
| 3 | One ETH management port | 4 | One Mini USB port |
| 5 | One console port | 6 | One USB port |

| | | | |
|---|---|---|---|
| 7 | Ground screw<br>**NOTE**<br>It is used with a ground cable. | 8 | Bar code label<br>**NOTE**<br>This label is drawable, and you can pull it outward to view the bar code and MAC address of the switch. |
| 9 | Extended card slot 1<br>**NOTE**<br>This slot is reserved for a stack card. | 10 | Extended card slot 2<br>**NOTE**<br>This slot support the ES5D21X04S01 card. |
| 11 | Power module slot 2<br>**NOTE**<br>Applicable power module:<br>● 1150 W AC PoE power module | 12 | Power module slot 1<br>**NOTE**<br>Applicable power module:<br>● 1150 W AC PoE power module |

## S5720-32C-HI-24S-AC

**Figure 4-70** Appearance of the S5720-32C-HI-24S-AC




| | | | |
|---|---|---|---|
| 1 | Sixteen 100/1000BASE-X Ethernet optical ports<br>Applicable modules:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module | 2 | Eight combo ports (10/100/1000BASE-T + 100/1000BASE-X)<br>Modules applicable to combo optical ports:<br>● FE optical module<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module |

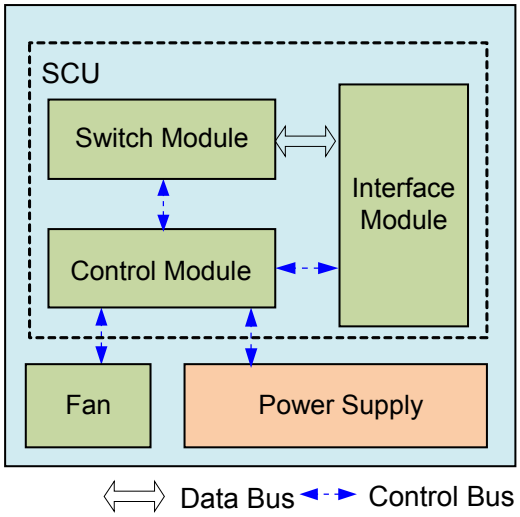
| | | | |
|---|---|---|---|
| 3 | Four 10GE SFP+ Ethernet optical ports<br>Applicable modules and cables:<br>● GE optical module<br>● GE-CWDM optical module<br>● GE-DWDM optical module<br>● GE copper module<br>● 10GE SFP+ optical module (not support OSXD22N00)<br>● 10GE-CWDM optical module<br>● 1 m, 3 m, 10 m SFP+ copper cables<br>● 3 m, 10 m AOC cables | 4 | One Mini USB port |
| 5 | One console port | 6 | One ETH management port |
| 7 | One USB port | 8 | Ground screw<br>**NOTE**<br>It is used with a ground cable. |
| 9 | Bar code label<br>**NOTE**<br>This label is drawable, and you can pull it outward to view the bar code and MAC address of the switch. | 10 | Extended card slot 1<br>**NOTE**<br>This slot is reserved for a stack card. |
| 11 | Extended card slot 2<br>**NOTE**<br>This slot support the ES5D21X04S01 card. | 12 | Power module slot 2<br>**NOTE**<br>Applicable power modules:<br>● 350 W DC power module<br>● 600 W AC power module |
| 13 | Power module slot 1<br>**NOTE**<br>Applicable power modules:<br>● 350 W DC power module<br>● 600 W AC power module | - | - |

# 4.2 Hardware Modules

**Figure 4-71** shows the logical structure of hardware modules of the switch.

Hardware modules of the S5700 refer to the interface card, SCU (Switch Control Unit), power supply,Pluggable Modules for Interfaces, and fan.

**Figure 4-71** Logical structure of hardware modules




## SCU

The SCU is fixed on the S5700. Each S5700 has one SCU.

The SCU is responsible for packet switching and device management. It integrates multiple functional modules, namely, the main control module, switching module, and interface module.

**Main Control Module**

The main control module implements the following functions:

- Processing protocols
- Functioning as an agent of the user to manage the system and monitor the system performance according to instructions of the user, and report the running status of the device to the user
- Monitoring and maintaining the interface module and switching module on the SCU

**Switching Module**

The switching module, also called the switching fabric, is responsible for packet exchange, multicast replication, QoS scheduling, and access control on the interface module of the SCU.

The switching module adopts high performance chips to implement line-speed forwarding and fast switching of data with different priorities.

**Interface Module**

The interface module provides Ethernet interfaces for accessing Ethernet services.

## Power Supply

For details about S5700-LI power supply configuration, see *S5700 Hardware Description* - Chassis - S5700-LI - Power Supply.

For details about S5700S-LI power supply configuration, see *S5700 Hardware Description* - Chassis - S5700S-LI - Power Supply.

For details about S5710-LI power supply configuration, see *S5700 Hardware Description* - Chassis - S5710-LI - Power Supply.

For details about S5700-SI power supply configuration, see *S5700 Hardware Description* - Chassis - S5700-SI - Power Supply.

For details about S5700-EI power supply configuration, see *S5700 Hardware Description* - Chassis- S5700-EI - Power Supply.

For details about power supply configuration of the S5710-EI, see *S5700 Hardware Description* - Chassis - S5710-EI - Power Supply.

For details about power supply configuration of the S5720-EI, see *S5700 Hardware Description* - Chassis - S5720-EI - Power Supply.

For details about S5700-HI power supply configuration, see *S5700 Hardware Description* - Chassis - S5700-HI - Power Supply.

For details about S5710-HI power supply configuration, see *S5700 Hardware Description* - Chassis - S5710-HI - Power Supply.

For details about S5720-HI power supply configuration, see *S5700 Hardware Description* - Chassis - S5720-HI - Power Supply.

## Cards

The S5700 supports service and stack cards. Service cards allow flexible networking and provide cost-effective and customized solutions. Stack cards connect multiple switches into one logical switch, which implements on-demand expansion, reduces investments, simplifies management, and improves network reliability.

For details about cards supported by the S5700, see *S5700 Hardware Description* - Cards.

## Fan Modules

A fan module provides heat dissipation for the system. Fan modules work in intelligent or forcible mode.

In intelligent mode, fan modules start to operate only when the ambient temperature goes higher than a specified value. You can run the **display fan speed-adjust threshold minus** command to view the temperature thresholds for fan speed adjustment. This command is supported only in V200R003C00 and later versions.

In forcible mode, fan modules start to work as soon as the switch starts.

For details about fan modules supported by the S5700, see *S5700 Hardware Description* - Fan Modules.

## Pluggable Modules for Interfaces

For specifications of various pluggable Modules for Interfaces, see "Pluggable Modules for Interfaces" in the *S5700 Series Ethernet Switches Hardware Description*.

# 5 Product Performance

## About This Chapter

# 5.1 Product Features

NOTE

Unless otherwise specified, this document describes switch features and software performance of the latest version.

Table 5-1 lists features supported by the S5700.

**Table 5-1** Features supported by the S5700

| Feature | | Description | Difference |
|---|---|---|---|
| Ethernet features | Ethernet | Operating modes of full-duplex, half-duplex and auto-negotiation | Only the S5720HI do not support the operating mode of half-duplex. |
| | | Rates of an Ethernet interface: 10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10 Gbit/s, and auto-negotiation | None |
| | | Flow control on interfaces | |
| | | Jumbo frames | |
| | | Link aggregation | |
| | | Load balancing among links of a trunk | |
| | | Transparent transmission of Layer 2 protocol packets | |
| | | Device Link Detection Protocol (DLDP) | |
| | | Link Layer Discovery Protocol (LLDP) | |
| | | Link Layer Discovery Protocol-Media Endpoint Discovery (LLDP-MED) | |
| | | Interface isolation and forwarding restriction | |
| | | Broadcast storm suppression | |
| | VLAN | Access modes of access, trunk, hybrid, and QinQ | None |
| | | Default VLAN | |

| Feature | | Description | Difference |
| --- | --- | --- | --- |
| | | VLAN assignment based on interfaces, MAC addresses, protocols, and IP subnets | |
| | | VLAN assignment based on the following policies:<br>● MAC address + IP address<br>● MAC address + IP address + interface number<br>● DHCP policies | |
| | | VLAN stacking for untagged packets | None |
| | | Super VLAN | Only the S5700LI, S5700S-LI, and S5710-LI do not support this function. |
| | | VLAN mapping | None |
| | | Selective QinQ | |
| | | MUX VLAN | |
| | | Voice VLAN | |
| | | Guest VLAN | |
| | GVRP | Generic Attribute Registration Protocol (GARP) | None |
| | | GARP VLAN Registration Protocol (GVRP) | |
| | VCMP | VCMP (VLAN centralized management protocol) | None |
| | MAC | Automatic learning and aging of MAC addresses | None |
| | | Static, dynamic, and blackhole MAC address entries | |
| | | Packet filtering based on source MAC addresses | |
| | | Interface-based MAC learning limiting | |
| | | Sticky MAC address entries | |
| | | MAC address flapping detection | |

| Feature | | Description | Difference |
|---|---|---|---|
| | | Configuring MAC address learning priorities for interfaces | Only the S5710EI, S5720EI, S5700HI, S5710HI, and S5720HI support this function. |
| | | MAC address spoofing defense | Only the S5710EI, S5700HI, S5710HI, and S5720HI do not support this function.<br>Only the S5700LI, S5700S-LI, S5710LI, S5700SI, and S5700EI support this function. |
| | | Port bridge | None |
| | ARP | Static and dynamic ARP entries | None |
| | | RARP | |
| | | ARP in a VLAN | |
| | | Aging of ARP entries | |
| | | Proxy ARP | Only the S5700LI and S5700S-LI do not support this function. |
| | | Multi-port ARP for connecting to the NLB cluster server | Only the S5710EI, S5720EI, S5700HI, S5710HI, and S5720HI support this function. |
| Ethernet loop protection | MSTP | STP | None |
| | | RSTP | |
| | | MSTP | |
| | | VBST | |
| | | BPDU protection, root protection, and loop protection | |
| | | TC-BPDU attack defense | |
| | | STP loop detection | |
| | Loopback detection | Loop detection on an interface | |
| | SEP | Smart Ethernet Protection (SEP) | |
| | Smart Link | Smart Link | |

| Feature | | Description | Difference |
|---|---|---|---|
| | | Smart Link multi-instance | |
| | | Monitor Link | |
| | RRPP | RRPP protective switchover | |
| | | Single RRPP ring, tangent RRPP ring, and intersecting RRPP ring | |
| | | Hybrid networking of RRPP rings and other ring networks | |
| | ERPS | G.8032 v1/v2 | Only the S5700S-LI does not support this function. |
| | | Single closed ring | |
| | | Subring | |
| IPv4/IPv6 forwarding | IPv4 and unicast routes | Static IPv4 routes | None |
| | | VRF | |
| | | DHCP client | |
| | | DHCP server | Only the S5710LI does not support this function. |
| | | DHCP relay | |
| | | DHCP policy VLAN | Only the S5700LI, S5700S-LI, and S5710LI do not support this function. |
| | | URPF check | |
| | | Routing policies | |
| | | RIPv1/RIPv2 | |
| | | OSPF | Only the S5700LI, S5700S-LI, S5710LI, and S5700SI do not support this function. |
| | | BGP | |
| | | MBGP | |
| | | IS-IS | |
| | | PBR (redirection in a traffic policy) | |
| | Multicast routing features | IGMPv1/v2/v3 | Only the S5700LI, S5700S-LI, S5710LI, and S5700SI do not support this function. |
| | | PIM-DM | |
| | | PIM-SM | |
| | | PIM-SSM | |
| | | MSDP | |
| | | Multicast routing policies | |

| Feature | | Description | Difference |
| --- | --- | --- | --- |
| | | RPF | |
| | IPv6 features | IPv6 protocol stack | None |
| | | ND and ND snooping | |
| | | DHCPv6 snooping | |
| | | RIPng | Only the S5700LI, S5700S-LI, and S5710LI do not support this function. |
| | | DHCPv6 server | |
| | | DHCPv6 relay | |
| | | OSPFv3 | Only the S5700LI, S5700S-LI, S5710LI, and S5700SI do not support this function. |
| | | BGP4+ & ISIS for IPv6 | |
| | | VRRP6 | |
| | | MLDv1 and MLDv2 | |
| | | PIM-DM for IPv6 | |
| | | PIM-SM for IPv6 | |
| | | PIM-SSM for IPv6 | |
| Layer 2 multicast features | - | IGMPv1/v2/v3 snooping | None |
| | | Fast leave | |
| | | IGMP proxy | |
| | | MLD snooping | |
| | | Interface-based multicast traffic suppression | |
| | | Inter-VLAN multicast replication | |
| | | Controllable multicast | |
| MPLS & VPN | Basic MPLS functions | LDP | Only the S5710EI, S5700HI, and S5710HI support this function. |
| | | Double MPLS labels | |
| | | Mapping from DSCP to EXP priorities in MPLS packets | |
| | | Mapping from 802.1p priorities to EXP priorities in MPLS packets | |
| | MPLS TE | MPLS TE tunnel | |
| | | MPLS TE protection group | |

| Feature | | Description | Difference |
| --- | --- | --- | --- |
| | VPN | Multi-VPN-Instance CE (MCE) | Only the S5700LI, S5700S-LI, S5710LI, and S5700SI do not support this function. |
| | | VLL in SVC, Martini, CCC, and Kompella modes | Only the S5710EI, S5700HI, and S5710HI support this function. |
| | | VLL FRR | |
| | | VPLS | |
| | | MPLS L3VPN | |
| Device reliability | BFD | Basic BFD functions | Only the S5700LI, S5700S-LI, S5710LI, and S5700SI do not support this function. |
| | | BFD for static route/IS-IS/OSPF/ BGP | |
| | | BFD for PIM | |
| | | BFD for VRRP | |
| | Stacking | Stack card supporting the stacking function | Only the S5710LI, S5700SI (except S5700-26X-SI-12S-AC), S5700EI, and S5720EI support this function. |
| | | Service interface supporting the stacking function | Only the S5700LI (except S5700-10P-LI-AC, S5700-10P-PWR-LI-AC, S5700-28P-LI-BAT, S5700-28P-LI-24S-BAT), S5710EI, and S5700HI support this function. |
| | Others | VRRP | Only the S5700LI, S5700S-LI, S5710LI, and S5700SI do not support this function. |
| Ethernet OAM | EFM OAM (802.3ah) | Automatic discovery | None |
| | | Link fault detection | |
| | | Link fault troubleshooting | |
| | | Remote loopback | |
| | CFM OAM (802.1ag) | Software-level CCM | None |
| | | MAC ping | |
| | | MAC trace | |

| Feature | | Description | Difference |
|---|---|---|---|
| | | Hardware-level CCM | Only the S5700HI supports this function. |
| | OAM association | Association between 802.1ag and 802.1ah | Only the S5700LI and S5700S-LI do not support this function. |
| | | Association between 802.1ah and 802.1ag | |
| | Y.1731 | Delay and variation measurement | None |
| | | Hardware-level delay and variation measurement | Only the S5700HI supports this function. |
| QoS features | Traffic classifier | Traffic classification based on ACLs | None |
| | | Traffic classification based on outer 802.1p priorities, inner VLAN IDs, outer VLAN IDs, source MAC addresses, and Ethernet types | |
| | | Traffic classification based on inner VLAN IDs | Only the S5700LI, S5700S-LI, S5710LI, and S5700SI do not support this function. |
| | | Traffic classification based on inner 802.1p priorities | Only the S5700LI, S5700S-LI, S5710LI, and S5700SI do not support this function. |
| | Traffic behavior | Access control after traffic classification | None |
| | | Traffic policing based on traffic classification | |
| | | Re-marking based on traffic classification | |
| | | Associating traffic classifiers with traffic behaviors | |
| | Traffic policing | Rate limit on inbound and outbound interfaces | |
| | Traffic shaping | Traffic shaping on interfaces and queues | |
| | Congestion avoidance | Simple Random Early Detection (SRED) | Only the S5700EI supports this function. |

| Feature | | Description | Difference |
|---|---|---|---|
| | | Weighted Random Early Detection (WRED) | Only the S5710EI, S5720EI, S5700HI, S5710HI, and S5720HI support this function. |
| | | Tail drop | None |
| | Congestion management | Queue mapping | None |
| | | Priority Queuing (PQ) | |
| | | Deficit Round Robin (DRR) | |
| | | PQ+DRR | |
| | | Weighted Round Robin (WRR) | Only the S5720HI do not support this function. |
| | | PQ+WRR | |
| | HQoS | Hierarchical Quality of Service | Only the S5720HI support this function. |
| Configuration and maintenance | Login and configuration management | Command line configuration | None |
| | | Error message and help information in English and Chinese | |
| | | Login through console and Telnet terminals | |
| | | SSH1.5/SSH2 | |
| | | Send function and data communication between terminal users | |
| | | Hierarchical user authority management and commands | |
| | | SNMP-based NMS management (eSight) | |
| | | Web page-based configuration and management | |
| | | EasyDeploy (client) | |
| | | EasyDeploy (commander) | Only the S5700LI, S5700S-LI, and S5710LI do not support this function. |
| | | Easy deployment and maintenance | |

| Feature | | Description | Difference |
| --- | --- | --- | --- |
| | | SVF | Only the S5720HI can be used as the Parent.<br>AS is supported by:<br>● S2750EI<br>● S5700LI<br>● S5700S-LI<br>● S5720EI |
| | File system | File system | None |
| | | Directory and file management | |
| | | File upload and download through FTP, TFTP, SFTP, SCP, and FTPS | |
| | Monitoring and maintenance | Hardware monitoring | None |
| | | Reporting alarms on abnormal device temperature | |
| | | Second-time fault detection to prevent detection errors caused by instant interference | |
| | | Version matching check | |
| | | Dying gasp | Only the S5700LI (except S5700-52X-LI-48CS-AC, S5700-28P-LI-BAT, S5700-28P-LI-24S-BAT), S5700S-LI, S5700HI, S5710HI, and S5720EI support this function. |
| | | Information center and unified management over logs, alarms, and debugging information | None |
| | | Electronic labels, and command line query and backup | |
| | | Virtual cable test (VCT) | |
| | | User operation logs | |
| | | Detailed debugging information for network fault diagnosis | |
| | | Network test tools such as traceroute and ping commands | |

| Feature | | Description | Difference |
| --- | --- | --- | --- |
| | | Port mirroring, flow mirroring, and remote mirroring | |
| | | Energy saving | |
| | Version upgrade | Device software loading and online software loading | None |
| | | BootROM online upgrade | |
| | | Remote in-service upgrade | |
| | | In-service patching | |
| Security | AAA | Local authentication and authorization | None |
| | | RADIUS authentication, authorization, and accounting | |
| | | HWTACACS authentication, authorization, and accounting | |
| | NAC | 802.1x authentication | None |
| | | MAC address authentication | |
| | | Portal authentication | |
| | | Hybrid authentication | Only the S5710LI does not support this function. |
| | ARP security | ARP packet rate limiting based on source MAC addresses | Only the S5710EI, S5720EI, S5700HI, and S5710HI support this function. |
| | | ARP packet rate limiting based on source IP addresses, interfaces, and VLANs, and global ARP packet rate limiting | None |
| | | ARP anti-spoofing | |
| | | Association between ARP and STP | Only the S5700LI and S5700S-LI do not support this function. |
| | | ARP gateway anti-collision | |
| | | Dynamic ARP Inspection (DAI) and Static ARP Inspection (SAI) | None |
| | | Egress ARP Inspection (EAI) | |
| | IP security | ICMP attack defense | None |

| Feature | | Description | Difference |
|---|---|---|---|
| | | IP source guard | |
| | CPU attack defense | CPU attack defense | |
| | MFF | MAC-Forced Forwarding (MFF) | |
| | DHCP snooping | DHCP snooping | |
| | | Option 82 function and dynamic rate limiting for DHCP packets | |
| | Attack defense | Defense against flood attacks without IP payloads, attacks from IGMP null payload packets, LAND attacks, Smurf attacks, and attacks from packets with invalid TCP flag bits | |
| | | Defense against attacks from many fragments, attacks from many packets with offsets, attacks from repeated packet fragments, Tear Drop attacks, Syndrop attacks, NewTear attacks, Bonk attacks, Nesta attacks Rose attacks, Fawx attacks, Ping of Death attacks, and Jolt attacks | |
| | | Defense against TCP SYN flood attacks, UDP flood attacks (including Fraggle attacks and UDP diagnosis port attacks), and ICMP flood attacks | |
| Network management | - | Ping and traceroute | None |
| | | NQA | |
| | | Network Time Protocol (NTP) | |
| | | IPCA | Only the S5720HI support this function. |
| | | sFlow | The S5700SI and S5720HI does not support this function. |
| | | NetStream | Only the S5710EI, S5700HI, S5710HI, and S5720HI support this function. |

| Feature | | Description | Difference |
| --- | --- | --- | --- |
| | | SNMP v1/v2c/v3 | None |
| | | Standard MIB | |
| | | HTTP | |
| | | Hypertext Transfer Protocol Secure (HTTPS) | |
| | | Remote network monitoring (RMON) | |
| | | RMON2 | Only the S5710EI, S5720EI, S5700HI, S5710HI, and S5720HI support this function. |
| WLAN | - | AP Management Specifications | Only the S5720HI support this function. |
| | | Radio Management Specifications | |
| | | WLAN Service Management Specifications | |
| | | QOS | |
| | | WLAN Security Specifications | |
| | | WLAN user management specifications | |

# 5.2 Performance Specifications

NOTE

Unless otherwise specified, this document describes switch features and software performance of the latest version.

**Table 5-2** Performance specifications of the S5700

| Attribute | Service Feature | Specifications |
| --- | --- | --- |
| Ethernet | MAC | ● S5700-LI: 16K<br>● S5700S-LI: 8K<br>● S5710-LI: 16K<br>● S5700-SI: 16K<br>● S5700-EI: 32K<br>● S5710-EI: 32K<br>● S5720-EI: 32K (non-large MAC mode)/64K (large MAC mode)<br>● S5700-HI: 32K<br>● S5710-HI:328K (non-large MAC mode)/456K (large MAC mode)<br>● S5720-HI: 128K |
| | Maximum number of VLANs | 4K |
| | Maximum number of link aggregation groups | ● S5700-LI: 64<br>● S5700S-LI: 64<br>● S5710-LI: 28<br>● S5700-SI: 28<br>● S5700-EI: 64<br>● S5710-EI: 64<br>● S5720-EI: 128<br>● S5700-HI: 64<br>● S5710-HI: 64<br>● S5720-HI: 128 |
| | Maximum number of member interfaces in a link aggregation group | ● S5720-HI: 32<br>● Other models: 8 |

| Attribute | Service Feature | Specifications |
| --- | --- | --- |
| | Maximum number of dynamic ARP entries in the system | ● S5700-LI: 256<br>● S5700S-LI: 256<br>● S5710-LI: 256<br>● S5700-SI: 2K<br>● S5700-EI: 8K<br>● S5710-EI: 16K<br>● S5720-EI: 12K<br>● S5700-HI: 16K<br>● S5710-HI: 24K (Big MAC mode)/60K (Non-Big-MAC mode)<br>● S5720-HI: 128K |
| QoS | Maximum number of outbound QoS queues on an interface | ● S5720-HI: 8 CQs on each port, 64K FQs shared by all ports<br>● Other models: 8 |
| | CAR | ● S5700-LI: 8 kbit/s<br>● S5700S-LI: 8 kbit/s<br>● S5710-LI: 64 kbps<br>● S5700-SI: 64 kbit/s<br>● S5700-EI: 64 kbit/s<br>● S5710-EI: 8 kbit/s<br>● S5720-EI: 8 kbit/s<br>● S5700-HI: 8 kbit/s<br>● S5710-HI: 8 kbit/s<br>● S5720-HI: 1 kbit/s |

| Attribute | Service Feature | Specifications |
| --- | --- | --- |
| ACL | ACLv4 | Maximum number of IPv4 ACLs supported:<br>● S5700-LI: 900 (400 on the S5700-10P-LI-AC and S5700-10P-PWR-LI-AC)<br>● S5700S-LI: 400<br>● S5710-LI: 1024/256<br>● S5700-SI: 1024/256<br>● S5700-EI: 2816/256<br>● S5710-EI: 7168/512<br>● S5720-EI: 3K/0.5K<br>● S5700-HI: 3072/256<br>● S5710-HI: 7168/512<br>● S5720-HI: a maximum of 64K<br>**NOTE**<br>The value 1024/256 indicates that 1024 ACLs are used for inbound traffic and 256 ACLs for outbound traffic. The value 400 indicates that the inbound and outbound traffic share 400 ACLs. |
| | ACLv6 | Maximum number of IPv6 ACLs supported:<br>● S5700-LI: 900 (400 on the S5700-10P-LI-AC and S5700-10P-PWR-LI-AC)<br>● S5700S-LI: 400<br>● S5710-LI: 1024/256<br>● S5700-SI: 1024/256<br>● S5700-EI: 512/128<br>● S5710-EI: 3584/256<br>● S5720-EI:1.5K/256<br>● S5700-HI: 1536/128<br>● S5710-HI: 3584/256<br>● S5720-HI: a maximum of 16K |
| MPLS | Maximum number of LSPs | ● S5710-EI, S5700-HI, S5710-HI: 4K<br>● Other models: do not support MPLS |
| L2 VPN | Total number of VLL connections supported | ● S5710-EI, S5700-HI, S5710-HI: 1K<br>● Other models: do not support VLL |
| | Number of VSIs | ● S5710-EI, S5700-HI: 256<br>● S5710-HI: 1024<br>● Other models: do not support VSI |

| Attribute | Service Feature | Specifications |
| --- | --- | --- |
| L3 VPN | Maximum number of VPN routes | ● S5710-EI: 16K<br>● S5700-HI: 12K<br>● S5710-HI: 12K<br>● Other models: do not support L3VPN |
| IP unicast | IPv4 Route capacity | ● S5700-LI: 32<br>● S5700S-LI: 32<br>● S5710-LI: 16<br>● S5700-SI: 4K<br>● S5700-EI: 12K<br>● S5710-EI: 16K<br>● S5720-EI: 16K<br>● S5700-HI: 12K<br>● S5710-HI:<br>– Enhanced IPv4 mode: 16K<br>– Default mode/Big MAC mode: 12K<br>– Enhanced IPv6 mode: 8K<br>● S5720-HI: 1M |
| | IPv6 Route capacity | ● S5700-LI: 16<br>● S5700S-LI: 16<br>● S5710-LI: 16<br>● S5700-SI: 1K<br>● S5700-EI: 6K<br>● S5710-EI: 8K<br>● S5720-EI: 8K<br>● S5700-HI: 6K<br>● S5710-HI:<br>– Enhanced IPv4 mode: 8K (64-bit prefix)<br>– Default mode/Big MAC mode: 6K (64-bit prefix) + 1K (128-bit prefix)<br>– Enhanced IPv6 mode: 4K (64-bit prefix) + 2K (128-bit prefix)<br>● S5720-HI: 64K |

| Attribute | Service Feature | Specifications |
| --- | --- | --- |
| Multicast | Number of multicast groups on the switch (Maximum number of IPv4 multicast routes) | ● S5700-LI: 1K<br>● S5700S-LI: 1K<br>● S5710-LI: 1K<br>● S5700-SI: 1K<br>● S5700-EI: 2K<br>● S5710-EI: 2K<br>● S5720-EI: 2K<br>● S5700-HI: 2K<br>● S5710-HI: 2K<br>● S5720-HI: 4K |
| | Maximum number of multicast routes (Maximum number of L3 multicast forwarding entries) | ● S5700-EI: 2K<br>● S5710-EI: 2K<br>● S5720-EI: 2K<br>● S5700-HI: 2K<br>● S5710-HI: 2K<br>● S5720-HI: 32K<br>● Other models: do not support L3 multicast forwarding |
| Reliability | BFD | Maximum number of BFD sessions:<br>● S5700-EI: 128<br>● S5710-EI: 128<br>● S5720-EI: 128<br>● S5700-HI: 128<br>● S5710-HI: 128<br>● S5720-HI: 128<br>● Other models: do not support BFD |
| | RRPP | ● Maximum number of RRPP instances: 64(48 on S5710LI)<br>● Maximum number of RRPP rings: 16<br>● Maximum number of RRPP domains: 8 |

| Attribute | Service Feature | Specifications |
| --- | --- | --- |
| | VRRP | ● Maximum number of VRRP groups:<br>– S5700-EI: 64<br>– S5710-EI: 64<br>– S5720-EI: 64<br>– S5700-HI: 64<br>– S5710-HI: 64<br>– S5720-HI: 64<br>– Other models: do not support VRRP<br>● Maximum number of virtual IP addresses in each VRRP backup group:<br>– S5700-EI: 16<br>– S5710-EI: 16<br>– S5720-EI: 16<br>– S5700-HI: 16<br>– S5710-HI: 16<br>– S5720-HI: 16<br>– Other models: do not support VRRP |
| | Smart Link | ● Maximum number of instances: 64(48 on S5710LI)<br>● Maximum number of Smart Link groups: 16 |
| | MSTP | Maximum number of MSTIs: 64 (48 on S5710LI) |
| | VBST | Number of protected VLANs on the device: 128 |
| | SEP | Maximum number of segments: 16 |

# 6 Technical Specifications

## About This Chapter

# 6.1 S5700-LI

Table 6-1 lists specifications of the S5700-LI.

**Table 6-1** Specifications of the S5700-LI

| Item | Description |
| --- | --- |
| DDR memory | 256 MB |
| Flash memory | ● V200R001: 64 MB<br>● V200R002 and later versions: 200 MB |
| Mean time between failures (MTBF) | ● S5700-28P-LI-AC: 49.69 years<br>● S5700-28P-LI-DC: 49.69 years<br>● S5700-52P-LI-AC: 39.26 years<br>● S5700-52P-LI-DC: 39.26 years<br>● S5700-28P-PWR-LI-AC: 44.24 years<br>● S5700-52P-PWR-LI-AC: 35.70 years<br>● S5700-28X-LI-AC: 68.95 years<br>● S5700-28X-LI-DC: 68.95 years<br>● S5700-52X-LI-AC: 61.86 years<br>● S5700-52X-LI-DC: 61.86 years<br>● S5700-28X-PWR-LI-AC: 61.53 years<br>● S5700-52X-PWR-LI-AC: 40.72 years<br>● S5700-10P-PWR-LI-AC: 36.89 years<br>● S5700-10P-LI-AC: 44.41 years<br>● S5700-28X-LI-24S-AC: 89.91 years<br>● S5700-28X-LI-24S-DC: 89.91 years<br>● S5701-28X-LI-AC: 70.32 years<br>● S5701-28X-LI-24S-AC: 89.91 years<br>● S5700-52X-LI-48CS-AC: 92.57 years<br>● S5700-28TP-LI-AC: 65.66 years<br>● S5700-28TP-PWR-LI-AC: 46.2 years<br>● S5701-28TP-PWR-LI-AC: 45.91 years |
| Mean time to repair (MTTR) | 2 hours |
| Availability | > 0.99999 |

| Item | | Description |
| --- | --- | --- |
| Surge protection | Service port protection | Combo electrical ports on the CSFP switch: ±2 kV in common mode; electrical ports on the other models: ±6 kV in common mode |
| | Power supply protection | ● DC: ±1 kV in differential mode; ±2 kV in common mode<br>● AC: ±6 kV in differential mode; ±6 kV in common mode |
| Dimensions (W x D x H) | | ● S5700-28P-LI-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5700-28P-LI-DC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5700-52P-LI-AC: 442.0 mm x 310.0 mm x 43.6 mm<br>● S5700-52P-LI-DC: 442.0 mm x 310.0 mm x 43.6 mm<br>● S5700-28P-PWR-LI-AC: 442.0 mm x 310.0 mm x 43.6 mm<br>● S5700-52P-PWR-LI-AC: 442.0 mm x 310.0 mm x 43.6 mm<br>● S5700-28X-LI-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5700-28X-LI-DC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5700-52X-LI-AC: 442.0 mm x 310.0 mm x 43.6 mm<br>● S5700-52X-LI-DC: 442.0 mm x 310.0 mm x 43.6 mm<br>● S5700-28X-PWR-LI-AC: 442.0 mm x 310.0 mm x 43.6 mm<br>● S5700-52X-PWR-LI-AC: 442.0 mm x 310.0 mm x 43.6 mm<br>● S5700-10P-PWR-LI-AC: 320.0 mm x 220.0 mm x 43.6 mm<br>● S5700-10P-LI-AC: 250.0 mm x 180.0 mm x 43.6 mm<br>● S5700-28X-LI-24S-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5700-28X-LI-24S-DC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5701-28X-LI-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5701-28X-LI-24S-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5700-52X-LI-48CS-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5700-28TP-LI-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5700-28TP-PWR-LI-AC: 442.0 mm x 310.0 mm x 43.6 mm<br>● S5701-28TP-PWR-LI-AC: 442.0 mm x 310.0 mm x 43.6 mm |
| Weight | | ≤ 5 kg |

| Item | | Description |
| --- | --- | --- |
| Stack port | | S5700-P-LI (with GE uplink ports):<br>● V200R001: The last two uplink 1000Base-X optical ports can be used as stack ports.<br>● V200R002 and later versions: The four uplink 1000Base-X optical ports can be used as stack ports.<br>S5700-TP-LI (with GE uplink ports): The two uplink 1000Base-X optical ports (not combo) can be used as stack ports.<br>S5700-X-LI (with 10GE uplink ports): The four uplink 10GE SFP+ optical ports can be used as stack ports.<br>**NOTE**<br>The S5700-10P-PWR-LI-AC and S5700-10P-LI-AC do not support stacking. |
| Maximum stack bandwidth (bidirectional) | | S5700-P-LI (with GE uplink ports):<br>● V200R001: 10 Gbit/s (using 1 m passive SFP+ cables); 20 Gbit/s (using 10 m active SFP+ cables)<br>● V200R002: 20 Gbit/s (using 1 m passive SFP+ cables); 40 Gbit/s (using 10 m active SFP+ cables)<br>● V200R003 and later versions: 20 Gbit/s (using 1 m passive SFP+ cables, stack optical module, or 3 m/10 m AOC cables); 40 Gbit/s (using 10 m active SFP+ cables)<br>S5700-TP-LI (with GE uplink ports): 10 Gbit/s (using 1 m passive SFP + cables, stack optical module, or 3 m/10 m AOC cables); 20 Gbit/s (using 10 m active SFP+ cables)<br>S5700-X-LI (with 10GE uplink ports): 80 Gbit/s |
| RPS | | All S5700-LI series switches except the S5700-10P-PWR-LI-AC and S5700-10P-LI-AC support RPS. |
| PoE | | The PWR series support PoE. |
| Input DC voltage | Rated input voltage range | -48 V DC to -60 V DC |
| | Maximum voltage range | -36 V DC to -72 V DC |
| Input AC voltage | Rated input voltage range | 100 V AC to 240 V AC, 50/60 Hz |

| Item | | Description |
| --- | --- | --- |
| | Maximum voltage range | 90 V AC to 264 V AC, 47 Hz to 63 Hz |
| Maximum system power consumption (100% throughput, 100% PoE loads, full speed of fans) | | ● S5700-28P-LI-AC: 24 W<br>● S5700-28P-LI-DC: 24 W<br>● S5700-52P-LI-AC: 48.4 W<br>● S5700-52P-LI-DC: 48.3 W<br>● S5700-28P-PWR-LI-AC: 436.5 W (system power consumption: 66.5 W, PoE: 370 W)<br>● S5700-52P-PWR-LI-AC: 464.5 W (system power consumption: 94.5 W, PoE: 370 W)<br>● S5700-28X-LI-AC: 41 W<br>● S5700-28X-LI-DC: 42 W<br>● S5700-52X-LI-AC: 61 W<br>● S5700-52X-LI-DC: 60 W<br>● S5700-28X-PWR-LI-AC: 448.8 W (system power consumption: 78.8 W, PoE: 370 W)<br>● S5700-52X-PWR-LI-AC: 479.3 W (system power consumption: 109.3 W, PoE: 370 W)<br>● S5700-10P-PWR-LI-AC: 142.4 W (system power consumption: 18.4 W, PoE: 124 W)<br>● S5700-10P-LI-AC: 11.5 W<br>● S5700-28X-LI-24S-AC: 60 W<br>● S5700-28X-LI-24S-DC: 57 W<br>● S5701-28X-LI-AC: 39.5 W<br>● S5701-28X-LI-24S-AC: 60 W<br>● S5700-52X-LI-48CS-AC: 79.93 W<br>● S5700-28TP-LI-AC: 26.4 W<br>● S5700-28TP-PWR-LI-AC: 469.7 W (system power consumption: 99.7 W, PoE: 370 W)<br>● S5701-28TP-PWR-LI-AC: 238.7 W (system power consumption: 53.9 W, PoE: 184.8 W) |

| Item | | Description |
| --- | --- | --- |
| Temperature | Operating temperature | The operating temperature of the S5700-10P-PWR-LI-AC, S5700-28X-LI-24S-AC, S5700-28X-LI-24S-DC, S5701-28X-LI-24S-AC, S5700-52X-LI-48CS-AC, and S5700-10P-LI-AC is 0°C to +45°C at an altitude between 0 m and 1800 m. The operating temperature of the other S5700-LI models is 0°C to +50°C at an altitude between 0 m and 1800 m.<br>**NOTE**<br>When the altitude is between 1800 m and 5000 m, the highest operating temperature reduces 1°C every time the altitude increases 220 m. |
| | Storage temperature | -40°C to +70°C |
| Noise under normal temperature (27°C, sound power) | | ● S5700-28P-LI-AC: 0 (The device has no fans.)<br>● S5700-28P-LI-DC: 0 (The device has no fans.)<br>● S5700-52P-LI-AC: less than 43.8 dBA<br>● S5700-52P-LI-DC: less than 43.8 dBA<br>● S5700-28P-PWR-LI-AC: less than 49.2 dBA<br>● S5700-52P-PWR-LI-AC: less than 49.2 dBA<br>● S5700-28X-LI-AC: less than 44.9 dBA<br>● S5700-28X-LI-DC: less than 44.9 dBA<br>● S5700-52X-LI-AC: less than 47.9 dBA<br>● S5700-52X-LI-DC: less than 47.9 dBA<br>● S5700-28X-PWR-LI-AC: less than 49.5 dBA<br>● S5700-52X-PWR-LI-AC: less than 50.2 dBA<br>● S5700-10P-PWR-LI-AC: 0 (The device has no fans.)<br>● S5700-10P-LI-AC: 0 (The device has no fans.)<br>● S5700-28X-LI-24S-AC: less than 49.6 dBA<br>● S5700-28X-LI-24S-DC: less than 49.6 dBA<br>● S5701-28X-LI-AC: less than 45.8 dBA<br>● S5701-28X-LI-24S-AC: less than 49.6 dBA<br>● S5700-52X-LI-48CS-AC: less than 67.3 dBA<br>● S5700-28TP-LI-AC: less than 39.5 dBA<br>● S5700-28TP-PWR-LI-AC: less than 48 dBA<br>● S5701-28TP-PWR-LI-AC: less than 45 dBA |
| Relative humidity | | 5% RH to 95% RH, noncondensing |
| Operating altitude | | ● S5700-28P-LI-DC: 0 m to 3000 m<br>● S5700-52P-LI-DC, S5700-28X-LI-DC, S5700-52X-LI-DC, S5700-28X-LI-24S-DC: 0 m to 2000 m<br>● Others: 0 m to 5000 m |

| Item | Description |
| --- | --- |
| EMC | ● CISPR22 Class A<br>● CISPR24<br>● EN55022 Class A<br>● EN50024<br>● ETSI EN 300 386 Class A<br>● CFR 47 FCC Part 15 Class A<br>● ICES 003 Class A<br>● AS/NZS CISPR22 Class A<br>● IEC61000-4-2<br>● ITU-T K 20<br>● ITU-T K 44 |
| Environmental standards | ● RoHS<br>● REACH<br>● WEEE |
| Safety | ● IEC 60950-1<br>● EN 60950-1/A11/A12<br>● UL 60950-1<br>● CSA C22.2 No 60950-1<br>● AS/NZS 60950.1 |
| Laser Safety | ● IEC60825-1<br>● IEC60825-2<br>● EN60825-1<br>● EN60825-2 |

# 6.2 S5700S-LI

Table 6-2 lists specifications of the S5700S-LI.

**Table 6-2** Specifications of the S5700S-LI

| Item | Description |
| --- | --- |
| DDR memory | 256 MB |
| Flash memory | ● V200R001: 64 MB<br>● V200R002 and later versions: 200 MB |

| Item | | Description |
| --- | --- | --- |
| Mean time between failures (MTBF) | | ● S5700S-28P-LI-AC: 49.69 years<br>● S5700S-52P-LI-AC: 39.26 years |
| Mean time to repair (MTTR) | | 2 hours |
| Availability | | > 0.99999 |
| Surge protection | Service port protection | Common mode: ±6 kV |
| | Power supply protection | ±6 kV in differential mode; ±6 kV in common mode |
| Dimensions (W x D x H) | | ● S5700S-28P-LI-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5700S-52P-LI-AC: 442.0 mm x 310.0 mm x 43.6 mm |
| Weight | | ≤ 5 kg |
| Stack port | | Not supported |
| RPS | | Supported |
| PoE | | Not supported |
| Input AC voltage | Rated input voltage range | 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum input voltage range | 90 V AC to 264 V AC, 47 Hz to 63 Hz |
| Maximum power consumption (100% throughput, full speed of fans) | | ● S5700S-28P-LI-AC: 24 W<br>● S5700S-52P-LI-AC: 48.4 W |
| Temperature | Operating temperature | 0°C to +50°C (at 0 m to 1800 m altitude)<br>**NOTE**<br>When the altitude is between 1800 m and 5000 m, the highest operating temperature reduces 1°C every time the altitude increases 220 m. |
| | Storage temperature | -40°C to +70°C |

| Item | Description |
| --- | --- |
| Noise under normal temperature (27°C, sound power) | ● S5700S-28P-LI-AC: 0 (The device has no fans.)<br>● S5700S-52P-LI-AC: less than 43.8 dBA |
| Relative humidity | 5% RH to 95% RH, noncondensing |
| Altitude | 0 m to 5000 m |
| EMC | ● CISPR22 Class A<br>● CISPR24<br>● EN55022 Class A<br>● EN50024<br>● ETSI EN 300 386 Class A<br>● CFR 47 FCC Part 15 Class A<br>● ICES 003 Class A<br>● AS/NZS CISPR22 Class A<br>● IEC61000-4-2<br>● ITU-T K 20<br>● ITU-T K 44 |
| Environmental standards | ● RoHS<br>● REACH<br>● WEEE |
| Security | ● IEC 60950-1<br>● EN 60950-1/A11/A12<br>● UL 60950-1<br>● CSA C22.2 No 60950-1<br>● AS/NZS 60950.1 |
| Laser safety | ● IEC60825-1<br>● IEC60825-2<br>● EN60825-1<br>● EN60825-2 |

# 6.3 S5710-LI

**Table 6-3** lists specifications of the S5710-LI.

**Table 6-3** Specifications of the S5710-LI

| Item | | Description |
|---|---|---|
| DDR memory | | 256 MB |
| Flash memory | | 32 MB |
| Mean time between failures (MTBF) | | ● S5710-28C-LI: 53.7 years when a 2x10GE card is configured; 74.9 years when a 4xGE card is configured; 29.58 years when a 4x10GE card is configured<br>● S5710-52C-LI: 51.3 years when a 2x10GE card is configured; 70.3 years when a 4xGE card is configured; 28.58 years when a 4x10GE card is configured<br>● S5710-28C-PWR-LI: 53.6 years when a 2x10GE card is configured; 74.6 years when a 4xGE card is configured; 25.68 years when a 4x10GE card is configured<br>● S5710-52C-PWR-LI: 50.4 years when a 2x10GE card is configured; 68.6 years when a 4xGE card is configured; 35.58 years when a 4x10GE card is configured |
| Mean time to repair (MTTR) | | 2 hours |
| Availability | | > 0.99999 |
| Surge protection | Service port protection | ● Non-PoE models: ±2 kV in common mode<br>● PoE models: ±1 kV in common mode |
| | Power supply protection | ● Non-PoE switch:<br>– AC: ±6 kV in differential mode; ±6 kV in common mode<br>– DC: ±1 kV in differential mode; ±2 kV in common mode<br>● PoE switch: ±2 kV in differential mode; ±4 kV in common mode |
| Dimensions (W x D x H) | | 442.0 mm x 420.0 mm x 43.6 mm |
| Weight | Fully loaded | ⩽ 8.5 kg |
| | Empty chassis | ⩽ 5 kg |
| Stack port | | Two stack ports available on each stack card |
| Maximum stack bandwidth (bidirectional) | | 48 Gbit/s |
| RPS | | Not supported |
| PoE | | Supported by PWR models |

| Item | | Description |
| --- | --- | --- |
| DC input voltage | Rated voltage range | -48 V DC to -60 V DC |
| | Maximum voltage range | -36 V DC to -72 V DC |
| AC input voltage | Rated voltage range | 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage range | 90 V AC to 264 V AC, 47 Hz to 63 Hz |
| Maximum power consumption (100% throughput, 100% PoE loads, full speed of fans) | | ● S5710-28C-LI: 56 W<br>● S5710-52C-LI: 78 W<br>● S5710-52C-PWR-LI: 917 W (system power consumption: 177 W; PoE: 740 W)<br>● S5710-28C-PWR-LI: 836 W (system power consumption: 96 W; PoE: 740 W) |
| Temperature | Operating temperature | 0°C to 50°C |
| | Storage temperature | -40°C to +70°C |
| Noise under normal temperature (27°C, sound power) | | ● S5710-28C-LI: < 41 dBA<br>● S5710-52C-LI: < 41 dBA<br>● S5710-52C-PWR-LI: < 45 dBA<br>● S5710-28C-PWR-LI: < 45 dBA |
| Relative humidity | | 5% RH to 95% RH, noncondensing |
| Operating altitude | | ● Non-PoE switch:<br>– AC: 0 m to 5000 m<br>– DC: 0 m to 2000 m<br>● PoE switch: 0 m to 5000 m |

| Item | Description |
| --- | --- |
| EMC | ● CISPR22 Class A<br>● CISPR24<br>● EN55022 Class A<br>● EN50024<br>● ETSI EN 300 386 Class A<br>● CFR 47 FCC Part 15 Class A<br>● ICES 003 Class A<br>● AS/NZS CISPR22 Class A<br>● IEC61000-4-2<br>● ITU-T K 20<br>● ITU-T K 44 |
| Environmental standards | ● RoHS<br>● REACH<br>● WEEE |
| Safety | ● IEC 60950-1<br>● EN 60950-1/A11/A12<br>● UL 60950-1<br>● CSA C22.2 No 60950-1<br>● AS/NZS 60950.1 |
| Laser Safety | ● IEC60825-1<br>● IEC60825-2<br>● EN60825-1<br>● EN60825-2 |

# 6.4 S5700-SI

Table 6-4 lists specifications of the S5700-SI.

**Table 6-4** Specifications of the S5700-SI

| Item | Description |
| --- | --- |
| DDR memory | 256 MB |
| Flash memory | S5700-26X-SI-12S-AC: 200 MB, others: 32 MB |

| Item | | Description |
| --- | --- | --- |
| Mean time between failures (MTBF) | | ● S5700-48TP-SI-AC: 34 years<br>● S5700-48TP-SI-DC: 34 years<br>● S5700-24TP-SI-AC: 37 years<br>● S5700-24TP-SI-DC: 37 years<br>● S5700-48TP-PWR-SI: 71.7 years<br>● S5700-24TP-PWR-SI: 84.3 years<br>● S5700-28C-PWR-SI: 53.6 years when a 2x10GE card is configured; 74.6 years when a 4xGE front card is configured; 25.68 years when a 4x10GE front card is configured<br>● S5700-52C-PWR-SI: 50.4 years when a 2x10GE card is configured; 68.6 years when a 4xGE front card is configured; 35.58 years when a 4x10GE front card is configured<br>● S5700-28C-SI: 53.7 years when a 2x10GE card is configured; 74.9 years when a 4xGE front card is configured; 29.58 years when a 4x10GE front card is configured<br>● S5700-52C-SI: 51.3 years when a 2x10GE card is configured; 70.3 years when a 4xGE front card is configured; 28.58 years when a 4x10GE front card is configured<br>● S5700-26X-SI-12S-AC: 91.74 years |
| Mean time to repair (MTTR) | | 2 hours |
| Availability | | > 0.99999 |
| Surge protection | Service port protection | ● Non-PoE switch: S5700-26X-SI-12S-AC: ±6 kV in common mode; others: ±2 kV in common mode<br>● PoE switch: ±1 kV in common mode |
| | Power supply protection | ● Non-PoE switch:<br>– AC: ±6 kV in differential mode; ±6 kV in common mode<br>– DC: ±1 kV in differential mode; ±2 kV in common mode<br>● PoE switch: ±2 kV in differential mode; ±4 kV in common mode |

| Item | | Description |
| --- | --- | --- |
| Dimensions (W x D x H) | | ● S5700-48TP-SI-AC: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5700-48TP-SI-DC: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5700-24TP-SI-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5700-24TP-SI-DC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5700-48TP-PWR-SI: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5700-52C-PWR-SI: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5700-24TP-PWR-SI: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5700-28C-PWR-SI: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5700-28C-SI: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5700-52C-SI: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5700-26X-SI-12S-AC: 442.0 mm x 310.0 mm x 43.6 mm |
| Weight | Fully loaded | ≤ 8.5 kg |
| | Empty loaded | ≤ 5 kg |
| Stack port | | Two stack ports available on each stack card<br>**NOTE**<br>The S5700-26X-SI-12S-AC does not support stacking. |
| Maximum stack bandwidth (bidirectional) | | 48 Gbit/s |
| RPS | | Only the S5700-26X-SI-12S-AC supports the RPS. |
| PoE | | The PWR series support PoE. |
| Input DC voltage | Rated input voltage range | -48 V DC to -60 V DC |
| | Maximum voltage range | -36 V DC to -72 V DC |
| Input AC voltage | Rated input voltage range | 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage range | 90 V AC to 264 V AC, 47 Hz to 63 Hz |

| Item | | Description |
| --- | --- | --- |
| Maximum system power consumption (100% throughput, 100% PoE loads, full speed of fans) | | ● S5700-48TP-SI-AC: 64 W<br>● S5700-48TP-SI-DC: 64 W<br>● S5700-24TP-SI-AC: 40 W<br>● S5700-24TP-SI-DC: 40 W<br>● S5700-48TP-PWR-SI: 907 W (system power consumption: 167 W; PoE: 740 W)<br>● S5700-52C-PWR-SI: 917 W (system power consumption: 177 W; PoE: 740 W)<br>● S5700-24TP-PWR-SI: 455 W (system power consumption: 85 W; PoE: 370 W)<br>● S5700-28C-PWR-SI: 466 W (system power consumption: 96 W; PoE: 370 W)<br>● S5700-28C-SI: 56 W<br>● S5700-52C-SI: 78 W<br>● S5700-26X-SI-12S-AC: 42.3 W |
| Temperature | Operating temperature | S5700-26X-SI-12S-AC: 0°C to 50°C (at 0 m to 1800 m altitude); others: 0°C to 50°C<br>**NOTE**<br>When the altitude is between 1800 m and 4000 m, the highest operating temperature reduces 1°C every time the altitude increases 220 m. |
| | Storage temperature | -40°C to +70°C |
| Noise under normal temperature (27°C, sound power) | | ● S5700-48TP-SI-AC: 0<br>● S5700-48TP-SI-DC: 0<br>● S5700-24TP-SI-AC: 0<br>● S5700-24TP-SI-DC: 0<br>● S5700-48TP-PWR-SI: less than 51 dBA<br>● S5700-52C-PWR-SI: less than 45 dBA<br>● S5700-24TP-PWR-SI: less than 51 dBA<br>● S5700-28C-PWR-SI: less than 45 dBA<br>● S5700-28C-SI: less than 41 dBA<br>● S5700-52C-SI: less than 41 dBA<br>● S5700-26X-SI-12S-AC: less than 56.3 dBA |
| Relative humidity | | 5% RH to 95% RH, noncondensing |

| Item | Description |
| --- | --- |
| Operating altitude | ● Non-PoE switch:<br>– AC: 0 m to 5000 m<br>– DC: 0 m to 2000 m<br>● PoE switch: 0 m to 5000 m |
| EMC | ● CISPR22 Class A<br>● CISPR24<br>● EN55022 Class A<br>● EN50024<br>● ETSI EN 300 386 Class A<br>● CFR 47 FCC Part 15 Class A<br>● ICES 003 Class A<br>● AS/NZS CISPR22 Class A<br>● IEC61000-4-2<br>● ITU-T K 20<br>● ITU-T K 44 |
| Environmental standards | ● RoHS<br>● REACH<br>● WEEE |
| Security | ● IEC 60950-1<br>● EN 60950-1/A11/A12<br>● UL 60950-1<br>● CSA C22.2 No 60950-1<br>● AS/NZS 60950.1 |
| Laser safety | ● IEC60825-1<br>● IEC60825-2<br>● EN60825-1<br>● EN60825-2 |

# 6.5 S5700-EI

**Table 6-5** lists specifications of the S5700-EI.

**Table 6-5** Specifications of the S5700-EI

| Item | | Description |
|---|---|---|
| DDR memory | | 256 MB |
| Flash memory | | 32 MB |
| Mean time between failures (MTBF) | | ● S5700-28C-EI: 53.11 years when a 2x10GE card is configured; 68.33 years when a 4xGE front card is configured; 25.52 years when a 4x10GE front card is configured<br>● S5700-52C-EI: 46.05 years when a 2x10GE card is configured; 57.08 years when a 4xGE front card is configured; 25.58 years when a 4x10GE front card is configured<br>● S5700-28C-EI-24S: 52.80 years when no card is configured; 41.33 years when a 2x10GE card is configured; 50.00 years when a 4xGE front card is configured; 26.52 years when a 4x10GE front card is configured<br>● S5700-28C-PWR-EI: 52 years when a 2x10GE card is configured; 55.4 years when a 4xGE front card is configured; 32.92 years when a 4x10GE front card is configured<br>● S5700-52C-PWR-EI: 44.8 years when a 2x10GE card is configured; 66.8 years when a 4xGE front card is configured; 29.89 years when a 4x10GE front card is configured |
| Mean time to repair (MTTR) | | 2 hours |
| Availability | | > 0.99999 |
| Surge protection | Service port protection | ● Non-PoE switch: ±2 kV in common mode<br>● PoE switch: ±1 kV in common mode |
| | Power supply protection | ● Non-PoE switch:<br>– AC: ±6 kV in differential mode; ±6 kV in common mode<br>– DC: ±1 kV in differential mode; ±2 kV in common mode<br>● PoE switch: ±2 kV in differential mode; ±4 kV in common mode |
| Dimensions (W x D x H) | | 442.0 mm x 420.0 mm x 43.6 mm |
| Weight | Fully loaded | ≤ 8.5 kg |
| | Empty loaded | ≤ 5 kg |
| Stack port | | Two stack ports available on each stack card |

| Item | | Description |
| --- | --- | --- |
| Maximum stack bandwidth (bidirectional) | | 48 Gbit/s |
| RPS | | Not supported |
| PoE | | The PWR series support PoE. |
| Input DC voltage | Rated input voltage range | -48 V DC to -60 V DC |
| | Maximum voltage range | -36 V DC to -72 V DC |
| Input AC voltage | Rated input voltage range | 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage range | 90 V AC to 264 V AC, 47 Hz to 63 Hz |
| Maximum system power consumption (100% throughput, 100% PoE loads, full speed of fans) | | ● S5700-28C-EI: 60 W<br>● S5700-52C-EI: 88 W<br>● S5700-28C-EI-24S: 63 W<br>● S5700-28C-PWR-EI: 842 W (system power consumption: 102 W; PoE: 740 W)<br>● S5700-52C-PWR-EI: 930 W (system power consumption: 190 W; PoE: 740 W) |
| Temperature | Operating temperature | 0°C to +50°C |
| | Storage temperature | -40°C to +70°C |

| Item | Description |
| --- | --- |
| Noise under normal temperature (27°C, sound power) | ● S5700-28C-EI: less than 41 dBA<br>● S5700-52C-EI: less than 41 dBA<br>● S5700-28C-EI-24S: less than 41 dBA<br>● S5700-28C-PWR-EI: less than 45 dBA<br>● S5700-52C-PWR-EI: less than 45 dBA |
| Relative humidity | 5% RH to 95% RH, noncondensing |
| Operating altitude | ● Non-PoE switch:<br>– AC: 0 m to 5000 m<br>– DC: 0 m to 2000 m<br>● PoE switch: 0 m to 5000 m |
| EMC | ● CISPR22 Class A<br>● CISPR24<br>● EN55022 Class A<br>● EN50024<br>● ETSI EN 300 386 Class A<br>● CFR 47 FCC Part 15 Class A<br>● ICES 003 Class A<br>● AS/NZS CISPR22 Class A<br>● IEC61000-4-2<br>● ITU-T K 20<br>● ITU-T K 44 |
| Environmental standards | ● RoHS<br>● REACH<br>● WEEE |
| Security | ● IEC 60950-1<br>● EN 60950-1/A11/A12<br>● UL 60950-1<br>● CSA C22.2 No 60950-1<br>● AS/NZS 60950.1 |
| Laser safety | ● IEC60825-1<br>● IEC60825-2<br>● EN60825-1<br>● EN60825-2 |

# 6.6 S5710-EI

Table 6-6 lists specifications of the S5710-EI.

**Table 6-6** Specifications of the S5710-EI

| Item | | Description |
|---|---|---|
| DDR memory | | 512 MB |
| Flash memory | | ● V200R001: 64 MB<br>● V200R002 and later versions: 200 MB |
| Mean time between failures (MTBF) | | ● S5710-28C-EI: 55.98 years when a 8xGE optical interface card is configured; 54.93 years when a 8xGE electrical interface card is configured; 52.69 years when a 2x10GE interface card is configured<br>● S5710-52C-EI: 45.57 years when a 8xGE optical interface card is configured; 44.85 years when a 8xGE electrical interface card is configured; 43.33 years when a 2x10GE interface card is configured<br>● S5710-28C-PWR-EI-AC: 51.28 years when a 8xGE optical interface card is configured; 50.31 years when a 8xGE electrical interface card is configured; 48.25 years when a 2x10GE interface card is configured<br>● S5710-52C-PWR-EI-AC: 36.86 years when a 8xGE optical interface card is configured; 36.35 years when a 8xGE electrical interface card is configured; 35.27 years when a 2x10GE interface card is configured<br>● S5710-52C-PWR-EI: 36.86 years when a 8xGE optical interface card is configured; 36.35 years when a 8xGE electrical interface card is configured; 35.27 years when a 2x10GE interface card is configured |
| Mean time to repair (MTTR) | | 2 hours |
| Availability | | > 0.99999 |
| Surge protection | Service port protection | ● Non-PoE switch: ±2 kV in common mode<br>● PoE switch: ±1 kV in common mode |

| Item | | Description |
| --- | --- | --- |
| | Power supply protection | ● DC: ±1 kV in differential mode; ±2 kV in common mode<br>● AC:<br>– S5710-28C-EI: ±6 kV in differential mode; ±6 kV in common mode<br>– S5710-52C-EI: ±6 kV in differential mode; ±6 kV in common mode<br>– S5710-28C-PWR-EI-AC: ±6 kV in differential mode; ±6 kV in common mode<br>– S5710-52C-PWR-EI-AC: ±6 kV in differential mode; ±6 kV in common mode<br>– S5710-52C-PWR-EI (using 580 W power modules): ±6 kV in differential mode; ±6 kV in common mode<br>– S5710-52C-PWR-EI (using 1150 W power modules): ±2 kV in differential mode; ±4 kV in common mode |
| Dimensions (W x D x H) | | 442.0 mm x 420.0 mm x 43.6 mm<br>When a 1150 W power module is installed, it extrudes out from the chassis. Therefore, the total depth of the switch changes to 507.3 mm. |
| Weight | Fully loaded | ≤ 10 kg |
| | Empty | ≤ 6 kg |
| Stack port | | Four 10GE SFP+ ports or two 10GE SFP+ rear card ports |
| Maximum stack bandwidth (bidirectional) | | ● V200R001: 80 Gbit/s<br>● V200R002 and later versions: 160 Gbit/s |
| RPS | | Not supported |
| PoE | | The PWR series support PoE. |
| Input DC voltage | Rated input voltage range | -48 V DC to -60 V DC |
| | Maximum voltage range | -36 V DC to -72 V DC |
| Input AC voltage | Rated input voltage range | 100 V AC to 240 V AC, 50/60 Hz |

| Item | | Description |
| --- | --- | --- |
| | Maximum voltage range | 90 V AC to 264 V AC, 47 Hz to 63 Hz |
| Maximum system power consumption (100% throughput, 100% PoE loads, full speed of fans) | | ● S5710-28C-EI: 98 W<br>● S5710-52C-EI: 146.9 W<br>● S5710-28C-PWR-EI-AC:<br>– Without card: 920 W (system power consumption: 180 W, PoE: 740 W)<br>– With two 8xGE electrical interface cards: 934 W (system power consumption: 194 W, PoE: 740 W)<br>– With two 8xGE optical interface cards: 942 W (system power consumption: 202 W, PoE: 740 W)<br>– With two 2x10GE optical interface cards: 941 W (system power consumption: 201 W, PoE: 740 W)<br>● S5710-52C-PWR-EI, S5710-52C-PWR-EI-AC (with two 580 W power modules configured):<br>– Without card: 1023 W (system power consumption: 283 W, PoE: 740 W)<br>– With two 8xGE electrical interface cards: 1035 W (system power consumption: 295 W, PoE: 740 W)<br>– With two 8xGE optical interface cards: 1043 W (system power consumption: 303 W, PoE: 740 W)<br>– With two 2x10GE optical interface cards: 1040 W (system power consumption: 300 W, PoE: 740 W)<br>● S5710-52C-PWR-EI (with two 1150 W power modules configured):<br>– Without card: 1605 W (system power consumption: 165 W, PoE: 1440 W)<br>– With two 8xGE electrical interface cards: 1625 W (system power consumption: 185 W, PoE: 1440 W)<br>– With two 8xGE optical interface cards: 1635 W (system power consumption: 195 W, PoE: 1440 W)<br>– With two 2x10GE optical interface cards: 1633 W (system power consumption: 193 W, PoE: 1440 W) |
| Temperature | Operating temperature | 0°C to +50°C (at 0 m to 1800 m altitude)<br>**NOTE**<br>When the altitude is between 1800 m and 5000 m, the highest operating temperature reduces 1°C every time the altitude increases 220 m. |
| | Storage temperature | -40°C to +70°C |

| Item | Description |
| --- | --- |
| Noise under normal temperature (27°C, sound power) | ● S5710-28C-EI: less than 53.9 dBA<br>● S5710-52C-EI: less than 53.9 dBA<br>● S5710-28C-PWR-EI-AC: less than 59.7 dBA<br>● S5710-52C-PWR-EI-AC: less than 60 dBA<br>● S5710-52C-PWR-EI: less than 60 dBA |
| Relative humidity | 5% RH to 95% RH, noncondensing |
| Operating altitude | ● S5710-28C-EI: 0 m to 5000 m when AC power module is configured; 0 m to 2000 m when DC power module is configured<br>● S5710-52C-EI: 0 m to 5000 m when AC power module is configured; 0 m to 2000 m when DC power module is configured<br>● S5710-28C-PWR-EI-AC: 0 m to 5000 m<br>● S5710-52C-PWR-EI-AC: 0 m to 5000 m<br>● S5710-52C-PWR-EI: 0 m to 5000 m |
| EMC | ● CISPR22 Class A<br>● CISPR24<br>● EN55022 Class A<br>● EN50024<br>● ETSI EN 300 386 Class A<br>● CFR 47 FCC Part 15 Class A<br>● ICES 003 Class A<br>● AS/NZS CISPR22 Class A<br>● IEC61000-4-2<br>● ITU-T K 20<br>● ITU-T K 44 |
| Environmental standards | ● RoHS<br>● REACH<br>● WEEE |
| Safety | ● IEC 60950-1<br>● EN 60950-1/A11/A12<br>● UL 60950-1<br>● CSA C22.2 No 60950-1<br>● AS/NZS 60950.1 |
| Laser safety | ● IEC60825-1<br>● IEC60825-2<br>● EN60825-1<br>● EN60825-2 |

# 6.7 S5720-EI

Table 6-7 lists specifications of the S5720-EI series switches.

**Table 6-7** Specifications of the S5720-EI series switches

| Item | Description |
| --- | --- |
| DDR memory | 2 GB |
| Flash storage | 340 MB |

| Item | Description |
| --- | --- |
| Mean time between failures (MTBF) | ● S5720-36C-EI-AC: 80.05 years without card; 73.65 years when a 2x10GE SFP+ card is configured; 71.58 years when a 2x10GE RJ45 card is configured; 71.74 years when a stack card is configured<br>● S5720-56C-EI-AC: 71.18 years without card; 66.07 years when a 2x10GE SFP+ card is configured; 66.40 years when a 2x10GE RJ45 card is configured; 64.53 years when a stack card is configured<br>● S5720-36C-EI-28S-AC: 85.45 years without card; 78.2 years when a 2x10GE SFP+ card is configured; 75.87 years when a 2x10GE RJ45 card is configured; 76.05 years when a stack card is configured<br>● S5720-56C-EI-48S-AC: 73.91 years without card; 68.42 years when a 2x10GE SFP+ card is configured; 66.63 years when a 2x10GE RJ45 card is configured; 66.77 years when a stack card is configured<br>● S5720-36C-PWR-EI-AC: 60.72 years without card; 56.97 years when a 2x10GE SFP+ card is configured; 55.72 years when a 2x10GE RJ45 card is configured; 55.82 years when a stack card is configured<br>● S5720-56C-PWR-EI-AC: 51.34 years without card; 48.63 years when a 2x10GE SFP+ card is configured; 47.71 years when a 2x10GE RJ45 card is configured; 47.79 years when a stack card is configured<br>● S5720-56C-PWR-EI-AC1: 51.34 years without card; 48.63 years when a 2x10GE SFP+ card is configured; 47.71 years when a 2x10GE RJ45 card is configured; 47.79 years when a stack card is configured<br>● S5720-36PC-EI-AC: 80.05 years without card; 73.65 years when a 2x10GE SFP+ card is configured; 71.58 years when a 2x10GE RJ45 card is configured; 71.74 years when a stack card is configured<br>● S5720-56PC-EI-AC: 71.18 years without card; 66.07 years when a 2x10GE SFP+ card is configured; 66.40 years when a 2x10GE RJ45 card is configured; 64.53 years when a stack card is configured<br>● S5720-32X-EI-AC: 80.32 years<br>● S5720-52X-EI-AC: 73.12 years<br>● S5720-50X-EI-AC: 74.31 years<br>● S5720-32X-EI-24S-AC: 82.54 years<br>● S5720-50X-EI-46S-AC: 67.59 years<br>● S5720-32P-EI-AC: 80.32 years<br>● S5720-52P-EI-AC: 73.12 years |

| Item | | Description |
| --- | --- | --- |
| Mean time to repair (MTTR) | | 2 hours |
| Availability | | > 0.99999 |
| Surge protection | Service port protection | Common mode: ±6kV |
| | Power supply protection | ● Non-PoE switch:<br>– DC: ±1 kV in differential mode; ±2 kV in common mode<br>– AC: ±6kV in differential mode; ±6kV in common mode<br>● PoE switch: ±2 kV in differential mode; ±4 kV in common mode |
| Dimensions (W x D x H) | | ● S5720-36C-EI-AC: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5720-56C-EI-AC: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5720-36C-EI-28S-AC: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5720-56C-EI-48S-AC: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5720-36C-PWR-EI-AC: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5720-56C-PWR-EI-AC: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5720-56C-PWR-EI-AC1: 442.0 mm x 420.0 mm x 43.6 mm (When a 1150 W power module is used, it extrudes out from the chassis, increasing the chassis depth to 507.3 mm.)<br>● S5720-36PC-EI-AC: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5720-56PC-EI-AC: 442.0 mm x 420.0 mm x 43.6 mm<br>● S5720-32X-EI-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5720-52X-EI-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5720-50X-EI-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5720-32X-EI-24S-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5720-50X-EI-46S-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5720-32P-EI-AC: 442.0 mm x 220.0 mm x 43.6 mm<br>● S5720-52P-EI-AC: 442.0 mm x 220.0 mm x 43.6 mm |
| Weight | Fully loaded | ≤ 12 kg |
| | Empty chassis | ≤ 8 kg |

| Item | | Description |
| --- | --- | --- |
| Stack port | | ● S5720-C-EI: ports on the 2xQSFP+ dedicated stack card<br>● S5720-PC-EI: ports on the 2xQSFP+ dedicated stack card<br>● S5720-X-EI: two fixed QSFP+ dedicated stack ports on the rear panel<br>● S5720-P-EI: two fixed QSFP+ dedicated stack ports on the rear panel |
| RPS | | Supported by the S5720-X-EI and S5720-P-EI series switches |
| PoE | | Supported by the PWR models |
| DC input voltage | Rated voltage range | -48 V DC to -60 V DC |
| | Maximum voltage range | -36 V DC to -72 V DC |
| AC input voltage | Rated voltage range | 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage range | 90 V AC to 264 V AC, 47 Hz to 63 Hz |

| Item | | Description |
| --- | --- | --- |
| Maximum power consumption (100% throughput, full speed of fans) | | ● S5720-36C-EI-AC: 75.8 W<br>● S5720-56C-EI-AC: 86.9 W<br>● S5720-36C-EI-28S-AC: 83.9 W<br>● S5720-56C-EI-48S-AC: 104 W<br>● S5720-36C-PWR-EI-AC:<br>– Without PoE: 78 W<br>– 100% PoE loads: 864.3 W (system power consumption: 124.3W, PoE: 740 W)<br>● S5720-56C-PWR-EI-AC:<br>– Without PoE: 91.6 W<br>– 100% PoE loads: 889.4 W (system power consumption: 149.4 W, PoE: 740 W)<br>● S5720-56C-PWR-EI-AC1:<br>– Without PoE: 91.6 W<br>– 100% PoE loads: 1564.8 W (system power consumption: 124.8 W, PoE: 1440 W)<br>● S5720-36PC-EI-AC: 74.6 W<br>● S5720-56PC-EI-AC: 85.7 W<br>● S5720-32X-EI-AC: 51.9 W<br>● S5720-52X-EI-AC: 61.5 W<br>● S5720-50X-EI-AC: 55.3 W<br>● S5720-32X-EI-24S-AC: 58.9 W<br>● S5720-50X-EI-46S-AC: 81.5 W<br>● S5720-32P-EI-AC: 50.7 W<br>● S5720-52P-EI-AC: 60.3 W |
| Temperature | Operating temperature | 0°C to 45°C (at altitude of 0-1800 m)<br>**NOTE**<br>When the altitude is between 1800 m and 5000 m, the operating temperature reduces by 1°C every time the altitude increases by 220 m. |
| | Storage temperature | -40°C to +70°C |

| Item | Description |
| --- | --- |
| Noise under normal temperature (27°C, sound power) | ● S5720-36C-EI-AC: less than 51.2 dBA<br>● S5720-56C-EI-AC: less than 51.2 dBA<br>● S5720-36C-EI-28S-AC: less than 51.2 dBA<br>● S5720-56C-EI-48S-AC: less than 51.2 dBA<br>● S5720-36C-PWR-EI-AC: less than 53.7 dBA<br>● S5720-56C-PWR-EI-AC: less than 53.7 dBA<br>● S5720-56C-PWR-EI-AC1: less than 61.7 dBA<br>● S5720-36PC-EI-AC: less than 51.2 dBA<br>● S5720-56PC-EI-AC: less than 51.2 dBA<br>● S5720-32X-EI-AC: less than 49.3 dBA<br>● S5720-52X-EI-AC: less than 49.3 dBA<br>● S5720-50X-EI-AC: less than 49.3 dBA<br>● S5720-32X-EI-24S-AC: less than 49.3 dBA<br>● S5720-50X-EI-46S-AC: less than 51.1 dBA<br>● S5720-32P-EI-AC: less than 49.3 dBA<br>● S5720-52P-EI-AC: less than 49.3 dBA |
| Relative humidity | 5% RH to 95% RH, noncondensing |
| Operating altitude | ● Non-PoE switch:<br>– DC power modules configured: 0 m to 2000 m<br>– AC power modules configured: 0 m to 5000 m<br>● PoE switch: 0 m to 5000 m |
| EMC | ● CISPR22 Class A<br>● CISPR24<br>● EN55022 Class A<br>● EN50024<br>● ETSI EN 300 386 Class A<br>● CFR 47 FCC Part 15 Class A<br>● ICES 003 Class A<br>● AS/NZS CISPR22 Class A<br>● IEC61000-4-2<br>● ITU-T K 20<br>● ITU-T K 44 |
| Environmental standards | ● RoHS<br>● REACH<br>● WEEE |

| Item | Description |
| --- | --- |
| Safety | ● IEC 60950-1<br>● EN 60950-1/A11/A12<br>● UL 60950-1<br>● CSA C22.2 No 60950-1<br>● AS/NZS 60950.1 |
| Laser safety | ● IEC60825-1<br>● IEC60825-2<br>● EN60825-1<br>● EN60825-2 |

# 6.8 S5700-HI

Table 6-8 lists specifications of the S5700-HI.

**Table 6-8** Specifications of the S5700-HI

| Item | | Description |
| --- | --- | --- |
| DDR memory | | 512 MB |
| Flash memory | | 64 MB |
| Mean time between failures (MTBF) | | ● S5700-28C-HI: 28.7 years when a 4x10GE card is configured; 41.1 years when a 2x10GE card is configured; 42.9 years when a 4xGE card is configured<br>● S5700-28C-HI-24S: 25.5 years when a 4x10GE card is configured; 34.8 years when a 2x10GE card is configured; 36.1 years when a 4xGE card is configured |
| Mean time to repair (MTTR) | | 2 hours |
| Availability | | > 0.99999 |
| Surge protection | Service port protection | ● S5700-28C-HI: ±2 kV in common mode<br>● S5700-28C-HI-24S: N/A |
| | Power supply protection | ● AC: ±6 kV in differential mode; ±6 kV in common mode<br>● DC: ±1 kV in differential mode; ±2 kV in common mode |

| Item | | Description |
| --- | --- | --- |
| Dimensions (W x D x H) | | 442.0 mm x 220.0 mm x 43.6 mm |
| Weight | Fully loaded | ≤ 6.5 kg |
| | Empty loaded | ≤ 5 kg |
| Stack port | | Versions earlier than V200R003C00 do not support stack ports.<br>Since V200R003C00, the 10GE ports on the front card can be used as stack ports. |
| Maximum stack bandwidth (bidirectional) | | 80 Gbit/s |
| RPS | | Not supported |
| PoE | | Not supported |
| Input DC voltage | Rated input voltage range | -48 V DC to -60 V DC |
| | Maximum voltage range | -36 V DC to -72 V DC |
| Input AC voltage | Rated input voltage range | 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage range | 90 V AC to 264 V AC, 47 Hz to 63 Hz |
| Maximum power consumption (100% throughput, full speed of fans) | | ● S5700-28C-HI: 76.6 W<br>● S5700-28C-HI-24S: 80.7 W |
| Temperature | Operating temperature | -5°C to +55°C<br>**NOTE**<br>When the switch has the 40 km SFP+ optical module installed, the operating temperature range is -5°C to +50°C. |

| Item | | Description |
| --- | --- | --- |
| | Storage temperature | -40°C to +70°C |
| Noise under normal temperature (27°C, sound power) | | Less than 60 dBA |
| Relative humidity | | 5% RH to 95% RH, noncondensing |
| Operating altitude | | ● Use AC power modules: 0 m to 5000 m<br>● Use DC power modules: 0 m to 2000 m |
| EMC | | ● CISPR22 Class A<br>● CISPR24<br>● EN55022 Class A<br>● EN50024<br>● ETSI EN 300 386 Class A<br>● CFR 47 FCC Part 15 Class A<br>● ICES 003 Class A<br>● AS/NZS CISPR22 Class A<br>● IEC61000-4-2<br>● ITU-T K 20<br>● ITU-T K 44 |
| Environmental standards | | ● RoHS<br>● REACH<br>● WEEE |
| Safety | | ● IEC 60950-1<br>● EN 60950-1/A11/A12<br>● UL 60950-1<br>● CSA C22.2 No 60950-1<br>● AS/NZS 60950.1 |
| Laser safety | | ● IEC60825-1<br>● IEC60825-2<br>● EN60825-1<br>● EN60825-2 |

# 6.9 S5710-HI

Table 6-9 lists the specifications of the S5710-HI.

**Table 6-9** Specifications of the S5710-HI

| Item | | Description |
|---|---|---|
| DDR memory | | 1 GB |
| Flash memory | | 200 MB |
| Mean time between failures (MTBF) | | 28.16 years when no card is configured; 27 years when a 16xGE optical interface card is configured; 25.98 years when a 16xGE electrical interface card is configured; 26.95 years when a 4x10GE card is configured; 26.69 years when a 4x40GE card is configured |
| Mean time to repair (MTTR) | | 2 hours |
| Availability | | > 0.99999 |
| Surge protection | Service port protection | Common mode: ±1 kV |
| | Power supply protection | ±2 kV in differential mode and ±4 kV in common mode |
| Dimensions (W x D x H) | | 442.0 mm x 470.0 mm x 86.1 mm<br>When a 1150 W power module is installed, it extrudes out from the chassis. Therefore, the total depth of the switch changes to 557.3 mm. |
| Weight | Fully loaded | ≤ 18 kg |
| | Empty chassis | ≤ 12 kg |
| Stack port | | Not supported |
| RPS | | Not supported |
| PoE | | Supported |
| AC input voltage | Rated voltage range | 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage range | 90 V AC to 264 V AC, 47 Hz to 63 Hz |

| Item | | Description |
| --- | --- | --- |
| Maximum power consumption (100% throughput, 100% PoE loads, full speed of fans) | | ● With 350 W power module configured: 240 W<br>● With two 1150 W power modules configured: 1680 W (system power consumption: 240 W; PoE: 1440 W) |
| Temperature | Operating temperature | 0°C to 45°C (at an altitude between 0 m and 1800 m)<br>**NOTE**<br>When the altitude is between 1800 m and 5000 m, the highest operating temperature reduces 1°C every time the altitude increases 220 m. |
| | Storage temperature | -40°C to +70°C |
| Noise under normal temperature (27°C, sound power) | | less than 67.3 dBA |
| Relative humidity | | 5% RH to 95% RH, noncondensing |
| Operating altitude | | 0 m to 5000 m |
| EMC | | ● CISPR22 Class A<br>● CISPR24<br>● EN55022 Class A<br>● EN50024<br>● ETSI EN 300 386 Class A<br>● CFR 47 FCC Part 15 Class A<br>● ICES 003 Class A<br>● AS/NZS CISPR22 Class A<br>● IEC61000-4-2<br>● ITU-T K 20<br>● ITU-T K 44 |
| Environmental standards | | ● RoHS<br>● REACH<br>● WEEE |
| Safety | | ● IEC 60950-1<br>● EN 60950-1/A11/A12<br>● UL 60950-1<br>● CSA C22.2 No 60950-1<br>● AS/NZS 60950.1 |

| Item | Description |
| --- | --- |
| Laser Safety | ● IEC60825-1<br>● IEC60825-2<br>● EN60825-1<br>● EN60825-2 |

# 6.10 S5720-HI

Table 6-10 lists the specifications of the S5720-HI series switches.

**Table 6-10** Specifications of the S5720-HI series switches

| Item | | Description |
| --- | --- | --- |
| DDR memory | | 4 GB |
| Flash storage | | 400 MB |
| Mean time between failures (MTBF) | | ● S5720-56C-HI-AC: 53.05 years when no card is configured; 49.85 years when a 4x10GE card is configured<br>● S5720-56C-PWR-HI-AC: 39.31 years when no card is configured; 37.53 years when a 4x10GE card is configured<br>● S5720-32C-HI-24S-AC: 56.21 years when no card is configured; 52.63 years when a 4x10GE card is configured |
| Mean time to repair (MTTR) | | 2 hours |
| Availability | | > 0.99999 |
| Surge protection | Service port protection | ● PoE switch: ±1 kV in common mode<br>● Non-PoE switch: ±2 kV in common mode |
| | Power supply protection | ● DC: ±1 kV in differential mode; ±2 kV in common mode<br>● AC:<br>– S5720-56C-HI-AC: ±6 kV in differential mode; ±6 kV in common mode<br>– S5720-32C-HI-24S-AC: ±6 kV in differential mode; ±6 kV in common mode<br>– S5720-56C-PWR-HI-AC: ±2 kV in differential mode; ±4 kV in common mode |

| Item | | Description |
| --- | --- | --- |
| Dimensions (W x D x H) | | 442.0 mm x 420.0 mm x 43.6 mm<br>When a 1150 W power module is installed, it extrudes out from the chassis. Therefore, the total depth of the switch changes to 507.3 mm. |
| Weight | Fully loaded | ≤ 10 kg |
| | Empty chassis | ≤ 6 kg |
| Stack port | | Not supported |
| RPS | | Not supported |
| PoE | | Supported by the PWR models |
| DC input voltage | Rated voltage range | -48 V DC to -60 V DC |
| | Maximum voltage range | -36 V DC to -72 V DC |
| AC input voltage | Rated voltage range | 100 V AC to 240 V AC, 50/60 Hz |
| | Maximum voltage range | 90 V AC to 264 V AC, 47 Hz to 63 Hz |
| Maximum power consumption (100% throughput, 100% PoE loads, full speed of fans) | | ● S5720-56C-HI-AC: 183.3 W<br>● S5720-56C-PWR-HI-AC: 1739 W (system power consumption: 299 W; PoE: 1440 W)<br>● S5720-32C-HI-24S-AC: 172.7 W |
| Temperature | Operating temperature | 0°C to 45°C (at an altitude between 0 m and 1800 m)<br>**NOTE**<br>When the altitude is between 1800 m and 5000 m, the operating temperature reduces by 1°C every time the altitude increases by 220 m. |
| | Storage temperature | -40°C to +70°C |
| Noise under normal temperature (27°C, sound power) | | ● S5720-56C-HI-AC: less than 60.1 dBA<br>● S5720-56C-PWR-HI-AC: less than 59.8 dBA<br>● S5720-32C-HI-24S-AC: less than 60.0 dBA |

| Item | Description |
| --- | --- |
| Relative humidity | 5% RH to 95% RH, noncondensing |
| Operating altitude | 0 m to 5000 m |
| EMC | ● CISPR22 Class A<br>● CISPR24<br>● EN55022 Class A<br>● EN50024<br>● ETSI EN 300 386 Class A<br>● CFR 47 FCC Part 15 Class A<br>● ICES 003 Class A<br>● AS/NZS CISPR22 Class A<br>● IEC61000-4-2<br>● ITU-T K 20<br>● ITU-T K 44 |
| Environmental standards | ● RoHS<br>● REACH<br>● WEEE |
| Safety | ● IEC 60950-1<br>● EN 60950-1/A11/A12<br>● UL 60950-1<br>● CSA C22.2 No 60950-1<br>● AS/NZS 60950.1 |
| Laser safety | ● IEC60825-1<br>● IEC60825-2<br>● EN60825-1<br>● EN60825-2 |

# 6.11 References

For details, see HUAWEI Sx700 Switch Standard and Protocol Compliance List.