S5720-SI Datasheet (Detailed Version)



HUAWEI TECHNOLOGIES CO., LTD.

HUAWEI



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1 Introduction

Huawei S5720 series Ethernet switches are next-generation energy-saving Gigabit Ethernet switches that function as the access devices to deliver high bandwidth or aggregation device for Ethernet multi-service networks. Built on next-generation high-performance processors and Huawei Versatile Routing Platform (VRP), the S5720 is available in four series: LI, SI, EI, and HI.

As a model of SI series, S5720-SI is the standard Gigabit Ethernet switch. This Layer 3 switch delivers flexible gigabit ports for access and cost-effective gigabit and 10 gigabit upstream ports.

The S5720-SI provides enhanced Layer 3 features, simplified operation and maintenance, intelligent stack (iStack), flexible Ethernet networking, and mature IPv6 features. It will be widely deployed at the access and aggregation layers of enterprise campus networks and the access layers of data center networks.

2 Product Overview

2.1 Product Appearance

S5720-SI models and description

S5720-28P-SI-AC



- 24 Ethernet 10/100/1000 ports,4 of which are dual-purpose 10/100/1000 or SFP ports
- 4 Gig SFP ports
- Double hot swappable AC/DC power supplies, one AC power module is configured by default
- Forwarding performance: 42 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-SI-AC
S5720-28X-SI-DC



- 24 Ethernet 10/100/1000 ports,4 of which are dual-purpose 10/100/1000 or SFP ports
- 4 10 Gig SFP+ ports
- Double hot swappable AC/DC power supplies, one AC/DC power module is configured by default
- Forwarding performance: 96 Mpps
- Switching capacity: 336 Gbit/s

S5720-52P-SI-AC



- 48 Ethernet 10/100/1000 ports
- 4 Gig SFP ports
- Double hot swappable AC/DC power supplies, one AC power module is configured by default
- Forwarding performance: 78 Mpps
- Switching capacity: 336 Gbit/s

S5720-52X-SI-AC
S5720-52X-SI-DC



- 48 Ethernet 10/100/1000 ports
- 4 10 Gig SFP+ ports
- Double hot swappable AC/DC power supplies, one AC/DC power module is configured by default
- Forwarding performance: 132 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-PWR-SI-AC
S5720-28X-PWR-SI-DC



- 24 Ethernet 10/100/1000 PoE+ ports, 4 of which are dual-purpose 10/100/1000 or SFP ports
- 4 10 Gig SFP+ ports
- PoE+
- Double hot swappable AC/DC power supplies, one 500W AC or 650W DC power module is configured by default
- Forwarding performance: 96 Mpps
- Switching capacity: 336 Gbit/s

S5720-52X-PWR-SI-AC
S5720-52X-PWR-SI-DC



- 48 Ethernet 10/100/1000 PoE+ ports
- 4 10 Gig SFP+ ports
- PoE+
- Double hot swappable AC/DC power supplies, one 500 W AC or 650 W DC power module is configured by default
- Forwarding performance: 132 Mpps
- Switching capacity: 336 Gbit/s

S5720-52X-PWR-SI-ACF



- 48 Ethernet 10/100/1000 PoE+ ports
- 4 10 Gig SFP+ ports
- Double hot swappable AC power supplies, one 1150 W AC power module is configured by default
- Forwarding performance: 132 Mpps
- Switching capacity: 336 Gbit/s

S5720S-28P-SI-AC



- 24 Ethernet 10/100/1000 ports
- 4 Gig SFP ports
- AC power supply, supporting RPS
- Forwarding performance: 42 Mpps
- Switching capacity: 336 Gbit/s

S5720S-28X-SI-AC
S5720S-28X-SI-DC



- 24 Ethernet 10/100/1000 ports
- 4 10 Gig SFP+ ports
- AC/DC power supply, supporting RPS
- Forwarding performance: 96 Mpps
- Switching capacity: 336 Gbit/s

S5720S-52P-SI-AC



- 48 Ethernet 10/100/1000 ports
- 4 Gig SFP ports
- AC power supply, supporting RPS
- Forwarding performance: 78 Mpps
- Switching capacity: 336 Gbit/s

S5720S-52X-SI-AC
S5720S-52X-SI-DC



- 48 Ethernet 10/100/1000 ports
- 4 10 Gig SFP+ ports
- AC/DC power supply, supporting RPS
- Forwarding performance: 132 Mpps
- Switching capacity: 336 Gbit/s

S5720-14X-PWH-SI-AC



- 8 Ethernet 10/100/1000 ports
- 4 Ethernet 2.5GE/GE ports
- 2 10 Gig SFP+ ports
- AC power supply
- Forwarding performance: 57 Mpps
- Switching capacity: 336 Gbit/s

2.2 Subcard Types

The S5720-SI provides four 10GE SFP+ ports (X series) or four 1000BASE-X ports (P series) for upstream connections. No extra upstream subcard is required.

2.3 Fan Tray

The S5720-SI has a built-in heat dissipation system. Customers do not need to purchase fan trays.

3 Power Supply

Table 3-1 lists the power supplies on the S5720-SI.

Table 3-1 S5720-SI power supplies

Power Model	Name	Applied Switch Model (S5720-SI)
ES0W2PSA0150	150 W AC	S5720-28P-SI-AC, S5720-28X-SI-AC, S5720-52P-SI-AC, S5720-52X-SI-AC
ES0W2PSD0150	150 W DC	S5720-28P-SI-AC, S5720-28X-SI-AC, S5720-52P-SI-AC, S5720-52X-SI-AC
PAC-500WA-BE	500 W AC PoE	S5720-28X-PWR-SI-AC, S5720-52X-PWR-SI-AC
PDC-650WA-BE	650 W DC PoE	S5720-28X-PWR-SI-AC, S5720-52X-PWR-SI-AC
W2PSA1150	1150 W AC PoE	S5720-52X-PWR-SI-ACF
RPS1800	RPS1800	S5720S-28P-SI-AC, S5720S-28X-SI-AC, S5720S-52P-SI-AC, S5720S-52X-SI-AC

The S5720-SI uses built-in power supplies by default. If the switch supports pluggable power supplies, the customer can purchase the power supplies when or after purchasing the switch.

The S5720-SI supports multiple power supply options, including dual-power, PoE, and single-power.

Dual-Power (Non-PoE)

The dual-power model (non-PoE) uses pluggable power supplies and provides two power slots. By default, one AC power supply (ES0W2PSA0150) is equipped. When a switch has two power supplies installed, the power supplies work in 1+1 backup mode to power the switch itself. The switch supports dual AC, dual DC, as well as AC and DC mixing.

Table 3-2 lists the power supply options supported by S5720-SI.

Table 3-2 S5720-SI dual-power (non-PoE)

Model	Power 1	Power 2
S5720-28P-SI-AC	ES0W2PSA0150 (150W-AC) or ES0W2PSD0150 (150W-DC)	ES0W2PSA0150 (150W-AC) or ES0W2PSD0150 (150W-DC)
S5720-28X-SI-AC	ES0W2PSA0150 (150W-AC) or ES0W2PSD0150 (150W-DC)	ES0W2PSA0150 (150W-AC) or ES0W2PSD0150 (150W-DC)
S5720-52P-SI-AC	ES0W2PSA0150 (150W-AC) or ES0W2PSD0150 (150W-DC)	ES0W2PSA0150 (150W-AC) or ES0W2PSD0150 (150W-DC)
S5720-52X-SI-AC	ES0W2PSA0150 (150W-AC) or ES0W2PSD0150 (150W-DC)	ES0W2PSA0150 (150W-AC) or ES0W2PSD0150 (150W-DC)

PoE/PoE+

PWR in the model name indicates a PoE-capable switch, which supports IEEE 802.3af-compliant PoE and 802.3at-compliant PoE+. Each port delivers 15.4 W PoE or 30 W PoE+ power capacity.

Each PoE-capable S5720-SI switch has two power slots for pluggable PoE power modules. Table 3-3 lists the power supply options supported by PoE-capable S5720-SI.

Table 3-3 S5720-SI dual-power (PoE)

Model	Power 1	Power 2	PoE Power	Number of PoE Ports
S5720-28X-PWR-SI-AC	PAC-500WA-BE or PDC-650WA-BE	-	40 W	POE (15.4W): 24 POE+ (30W): 12
	PAC-500WA-BE or PDC-650WA-BE	PAC-500WA-BE or PDC-650WA-BE	740 W	POE (15.4W): 24 POE+ (30W): 24
S5720-52X-PWR-SI-AC	PAC-500WA-BE or PDC-650WA-BE	-	40 W	POE (15.4W): 24 POE+ (30W): 12
	PAC-500WA-BE or PDC-650WA-BE	PAC-500WA-BE or PDC-650WA-BE	740 W	POE (15.4W): 48 POE+ (30W): 24

Model	Power 1	Power 2	PoE Power	Number of PoE Ports
S5720-52X-PWR-SI-ACF	W2PSA1150	-	786W	POE (15.4W): 48 POE+ (30W): 26
	W2PSA1150	W2PSA1150	1440 W	POE (15.4W): 48 POE+ (30W): 48

NOTE:

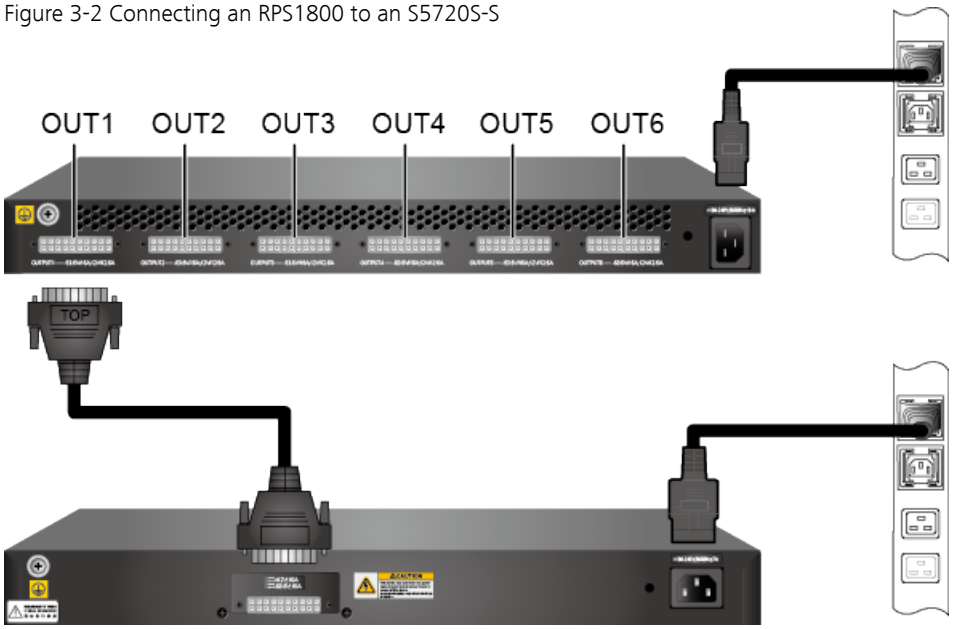
When a switch has two power supplies installed, the two power supplies work in redundancy mode to provide power for the switch itself and in load balancing mode to provide power for powered devices (PDs).

Single-Power

The single-power model uses a built-in AC power supply and supports RPS1800. The single-power models include S5720S-28P-SI-AC, S5720S-28X-SI-AC, S5720S-52P-SI-AC, and S5720S-52X-SI-AC.

An RPS1800 is a redundant power supply system that provides power redundancy for the connected switches to ensure uninterrupted services. When the internal power supply of a switch fails, the RPS1800 provides power to the switch immediately, which improves system reliability. Figure 3-2 shows how to connect an RPS1800 to a switch.

Figure 3-2 Connecting an RPS1800 to an S5720S-S



The RPS1800 provides 1+6 cold backup for the switch:

- The RPS1800 can connect to a maximum of six switches and ensures seamless failover for at most one switch when the internal power supply of the switch fails.
- When the internal power supply of the switch powered by the RPS1800 recovers, the RPS1800 immediately restores to backup state.
- Among the 6 DC output ports, OUT1 has the highest priority, and the other 5 ports have the same priority. When the RPS1800 connects to six switches, the switch connected to OUT1 preferentially receives power from the RPS1800.

4 Product Characteristics and Advantages

Powerful support for services

- The S5720-SI offers higher performance and delivers a switching capacity of up to 336 Gbps. It provides more powerful Layer 3 routing capability such as OSPF/OSPFv3, BGP/BGP4+, ISIS/ISISv6, and provides voice, video and data services, helping enterprises build an integrated full service network with high availability and low latency.
- The S5720-SI supports many Layer 2/Layer 3 multicast protocols such as PIM SM, PIM DM, PIM SSM, MLD, and IGMP snooping, to support multi-terminal high-definition video surveillance and video conferencing services. It supports IGMP v1/v2/v3 snooping, IGMP filter, IGMP fast leave, and IGMP proxy. It also supports wire-speed replication of multicast packets between VLANs, multicast load balancing among member interfaces of a trunk, and controllable multicast, meeting requirements for IPTV and other multicast services.

Comprehensive reliability mechanisms

- Besides STP, RSTP, and MSTP, the S5720-SI supports enhanced Ethernet reliability technologies such as Smart Link and RRPP (Rapid Ring Protection Protocol), which implement millisecond-level protection switchover and ensure network reliability. It also provides Smart Link multi-instance and RRPP multi-instance to implement load balancing among links, optimizing bandwidth usage.
- The S5720-SI supports the Smart Ethernet Protection (SEP) protocol, a ring network protocol applied to the link layer on an Ethernet network. SEP can be used on open ring networks and can be deployed on upper-layer aggregation devices to provide fast switchover, ensuring non-stop transmission of services. SEP features simplicity, high reliability, fast switchover, easy maintenance, and flexible topology, facilitating network planning and management.
- The S5720-SI supports Ethernet Ring Protection Switching (ERPS), also referred to as G.8032. As the latest ring network protocol, ERPS was developed based on traditional Ethernet MAC and bridging functions and uses mature Ethernet OAM function and a Ring Automatic Protection Switching (R-APS) mechanism to implement millisecond-level protection switching. ERPS supports various services and allows flexible networking, helping customers build a network with lower OPEX and CAPEX.

Well-designed QoS policies and security mechanisms

- The S5720-SI implements complex traffic classification based on packet information such as the 5-tuple, IP precedence, ToS, DSCP, IP protocol type, ICMP type, TCP/UDP port number, VLAN ID, Ethernet protocol type. ACLs can be applied to inbound or outbound direction on an interface. The S5720-SI supports a flow-based two-rate three-color CAR. Each port supports eight priority queues and multiple queue scheduling algorithms such as WRR, DRR, SP, WRR+SP, and DRR+SP. All of these ensure the quality of voice, video, and data services. The S5720-SI supports 802.1x authentication, MAC address authentication, and combined authentication on a per port basis, as well as Portal authentication on a per VLANIF interface basis.
- The S5720-SI provides multiple security measures to defend against Denial of Service (DoS) attacks, and attacks against networks or users. DoS attack types include SYN Flood attacks, Land attacks, Smurf attacks, and ICMP Flood attacks. Attacks to networks refer to STP BPDU/root attacks. Attacks to users include bogus DHCP server attacks, man-in-the-middle attacks, IP/MAC spoofing attacks, DHCP request flood attacks. DoS attacks that change the CHADDR field in DHCP packets are also attacks against users.
- The S5720-SI supports DHCP snooping, which discards invalid packets that do not match any binding entries, such as ARP spoofing packets and IP spoofing packets. This prevents man-in-the-middle attacks to campus networks that hackers initiate by using ARP packets. The interface connected to a DHCP server can be configured as a trusted interface to protect the system against bogus DHCP server attacks.
- The S5720-SI supports strict ARP learning, which prevents ARP spoofing attacks that will exhaust ARP entries. It also provides IP source check to prevent DoS attacks caused by MAC address spoofing, IP address spoofing, and MAC/IP spoofing.
- The S5720-SI supports centralized MAC address authentication, 802.1x authentication, and NAC. It authenticates users based on statically or dynamically bound user information such as the user name, IP address, MAC address, VLAN ID, access interface, and flag indicating whether antivirus software is installed. VLANs, QoS policies, and ACLs can be applied to users dynamically.
- The S5720-SI can limit the number of MAC addresses learned on an interface to prevent attackers from exhausting MAC address entries by using bogus source MAC addresses. This function minimizes packet flooding that occurs when MAC addresses of users cannot be found in the MAC address table.

- The S5720-SI supports MAC security (MACSec) that enables hop-by-hop secure data transmission. Therefore, the S5720-SI can be applied to scenarios that pose high requirements on data confidentiality, such as government and finance sectors.

Easy deployment and maintenance free

- The S5720-SI supports Super Virtual Fabric (SVF), which virtualizes the network architecture consisting of "core/aggregation switches + access switches + APs" into one device for management. SVF provides the industry's simplest network management solution, which simplifies device management and enables access switches and wireless APs to be plug-and-play. SVF Supports profile-based service configuration and automatic delivery of the configuration on core devices to access devices, implementing centralized device management and control, easy service configuration, and flexible configuration adjustment. The S5720-SI functions as a client switch.
- The S5720-SI supports Zero Touch Provisioning (ZTP), topology planning-based deployment, automatic topology discovery and collection, intelligent error correction and plug-and-play, deployment using a USB flash drive, and batch remote upgrade. These capabilities simplify device management and maintenance and reduce maintenance costs. The S5720-SI supports SNMP v1/v2c/v3 and provides flexible methods for managing devices. Users can manage the S5720-SI using the CLI and Web NMS. The NQA function helps users with network planning and upgrading. In addition, the S5720-SI supports NTP, SSH v2, HWTACACS+, RMON, log hosts, and port-based traffic statistics.
- The S5720-SI supports GARP VLAN Registration Protocol (GVRP), which dynamically distributes, registers, and propagates VLAN attributes to reduce manual configuration workloads of network administrators and to ensure correct VLAN configuration. In a complex network topology, GVRP simplifies VLAN configuration and reduces network communication faults caused by incorrect VLAN configuration.
- The S5720-SI supports MUX VLAN. MUX VLAN isolates Layer 2 traffic between interfaces in a VLAN. Interfaces in a subordinate separate VLAN can communicate with ports in the principal VLAN but cannot communicate with each other. MUX VLAN is usually used on an enterprise intranet to isolate user interfaces from each other but allow them to communicate with server interfaces. This function prevents communication between network devices connected to certain interfaces or interface groups but allows the devices to communicate with the default gateway.
- The S5720-SI supports the Sampled Flow (sFlow) function, which uses a sampling mechanism to obtain statistics about traffic forwarded on a network and sends the statistics to the Collector in real time. The Collector analyzes traffic statistics to help customers manage network traffic efficiently. The S5720-SI integrates the sFlow Agent module and uses hardware for traffic monitoring. Unlike traffic monitoring through port mirroring, sFlow does not degrade network performance during traffic monitoring.

PoE function

- The S5720-SI PWR can use PoE power supplies with different power levels to provide -48V DC power for Powered Devices (PDs) such as IP phones, WLAN APs, and Bluetooth APs. In its role as Power Sourcing Equipment (PSE), the S5720-SI PWR complies with IEEE 802.3af and 802.3at (PoE+) and can work with PDs that are incompatible with 802.3af or 802.3at. Each port provides a maximum of 30 W power, complying with IEEE 802.3at. The PoE+ function increases the maximum power of each port and implements intelligent power management for high-power consumption applications. This facilitates the use of PDs. PoE ports can work in power-saving mode. The S5720-SI PWR provides improved PoE solutions. Users can configure whether and when a PoE port supplies power.

High scalability

- The S5720-SI supports intelligent stacking (iStack). Multiple S5720-SI can be connected with stack cables to set up a stack, which functions as a virtual switch. Downlink electrical ports support iStack. A stack consists of a master switch, a backup switch, and several slave switches. The backup switch takes over services when the master switch fails, reducing service interruption time. Stacks support intelligent upgrade so that users do not need to change the software version of a switch when adding it to a stack. The iStack function allows users to connect multiple switches with stack cables to expand system capacity. These switches can be managed using a single IP address, which greatly reduces the costs of system expansion, operation, and maintenance. Compared with traditional networking technologies, iStack has advantages in scalability, reliability, and system architecture.

Various IPv6 features

- The S5720-SI supports IPv4/IPv6 dual stack and can migrate from an IPv4 network to an IPv6 network. S5720-SI hardware supports IPv4/IPv6 dual stack, IPv6 over IPv4 tunnels (including manual tunnels, 6to4 tunnels, and ISATAP tunnels), and Layer 3 line-speed forwarding. The S5700 can be deployed on IPv4

networks, IPv6 networks, or networks that run both IPv4 and IPv6. This makes networking flexible and enables easy migration from IPv4 to IPv6.

UPOE+ ultra-large power supply

- The S5720-SI provides a UPOE+ model, which supports 2.5GE/GE UPoE+ Ethernet electrical ports that are compatible with GE cables. The UPOE+ model provides an up to 90 W PoE power supply per port, accommodating the requirements of scenarios in which a large power supply is required, such as enterprise office desktop systems, smart lighting, and Wi-Fi/LTE Pico co-site.

5 Product Specifications

5.1 Functions and Features

Table 5-1 lists the functions and features available on the S5720-SI.

Table 5-1 Functions and features available on the S5720-SI

Feature	Description
MAC address table	In compliance with IEEE 802.1d 16 K MAC address entries MAC address learning and aging Static, dynamic, and blackhole MAC address entries Packet filtering based on source MAC addresses
VLAN	4K VLANs Guest VLAN and voice VLAN GVRP Selective QinQ MUX VLAN VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and ports 1:1 and N:1 VLAN mapping
Jumbo frame	10K
Reliability	RRPP ring topology and RRPP multi-instance SmartLink tree topology and SmartLink multi-instance, providing millisecond-level protection switchover Smart Ethernet Protection (SEP) STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s) G.8032 Ethernet Ring Protection Switching (ERPS) BPDU protection, root protection, and loop protection
IP routing	Static route, RIPv1/2, RIPng, OSPF, OSPFv3, ECMP, IS-IS, IS-ISv6, BGP, BGP4+, VRRP, and VRRP6
IPv6	Neighbor Discovery (ND) Path maximum transmission unit (PMTU) IPv6 Ping, IPv6 Tracert, and IPv6 Telnet 6 to4 tunnel, ISATAP tunnel, and manually configured tunnel ACLs based on source IPv6 addresses, destination IPv6 addresses, Layer 4 ports, or protocol types Multicast Listener Discovery (MLD) v1/v2 snooping

Feature	Description
Multicast	PIM-DM, PIM-SM, and PIM-SSM IGMP v1/v2/v3 snooping and IGMP fast leave Multicast forwarding in a VLAN and multicast replication between VLANs Multicast load splitting among trunk member ports Controllable multicast Port-based multicast traffic statistics collection
QoS/ACL	Inbound and outbound traffic rate limiting on a port Packet redirection Port-based traffic policing and two-rate and three-color CAR Eight queues per port WRR, DRR, SP, WRR+SP, and DRR+SP queue scheduling algorithms Remarking of the 802.1p priority and DSCP value of packets Packet filtering based on Layer 2 to Layer 4 information, including source MAC addresses, destination MAC addresses, source IP addresses, destination IP addresses, TCP/UDP source/destination ports, protocol types, and VLAN IDs Queue-based rate limitation and shaping on ports
Security	User privilege management and password protection DoS attack defense, ARP attack defense, and ICMP attack defense Binding of the IP address, MAC address, interface, and VLAN Port isolation, port security, and sticky MAC Blackhole MAC address entries MAC Forced Forwarding (MFF) Limit on the number of learned MAC addresses 802.1x authentication and limit on the number of users on an interface AAA authentication, RADIUS authentication, HWTACACS+ authentication, and NAC SSH v2.0 Hypertext Transfer Protocol Secure (HTTPS) CPU defense Blacklist and whitelist 802.1x authentication, MAC address authentication, and combined authentication on a per port basis Portal authentication on a per VLANIF interface basis MACSec
SVF	SVF client, zero-touch deployment Automatic software and patch loading on client One-key service deployment Independent running of client
OAM	Software OAM: EFM OAM CFM OAM Y.1731 performance test
Management and maintenance	iStack Virtual cable test (VCT) SNMPv1/v2c/v3 Remote Network Monitoring (RMON) Web-based network management system System logs and multi-level alarms sFlow LLDP/LLDP-MED
Interoperability	VLAN-based Spanning Tree (working with PVST/PVST+/RPVST)
	Link-type Negotiation Protocol (LNP), similar to the Dynamic Trunking Protocol (DTP)
	VLAN Central Management Protocol (VCMP), similar to the VLAN Trunk Protocol (VTP)

5.2 Hardware Specifications

Table 5-2 lists the S5720-SI hardware specifications.

Table 5-2 S5720-SI hardware specifications

Item		Specification
Cabinet		Standard 19-inch cabinet/rack, such as N66E and N68E
Memory (RAM)		512 MB
Flash memory		240 MB
Mean Time Between Failures (MTBF), years		S5720-28P-SI-AC: 85.48 S5720-52P-SI-AC: 75.66 S5720-28X-SI-AC: 82.4 S5720-28X-SI-DC: 82.4 S5720-52X-SI-AC: 73.23 S5720-52X-SI-DC: 73.23 S5720-28X-PWR-SI-AC: 66.78 S5720-28X-PWR-SI-DC: 66.78 S5720-52X-PWR-SI-AC: 50.86 S5720-52X-PWR-SI-DC: 50.86 S5720-52X-PWR-SI-ACF: 50.86 S5720-14X-PWH-SI-AC: 86.55 S5720S-28P-SI-AC: 104.92 S5720S-52P-SI-AC: 90.07 S5720S-28X-SI-AC: 100.31 S5720S-52X-SI-AC: 86.64
Mean Time To Repair (MTTR), hours		2
Availability		> 0.99999
Surge protection	Service port protection	± 6kV in common mode
	Power supply port protection	• Non-PoE switches: DC: ± 1 kV in differential mode; ± 2 kV in common mode AC: ± 6kV in differential mode; ± 6kV in common mode • PoE switches: S5720-28X-PWR-SI-AC (using 500 W AC power modules): ± 6 kV in differential mode; ± 6 kV in common mode S5720-28X-PWR-SI-AC (using 650 W DC power modules): ± 2 kV in differential mode; ± 4 kV in common mode S5720-28X-PWR-SI-DC (using 500 W AC power modules): ± 6 kV in differential mode; ± 6 kV in common mode S5720-28X-PWR-SI-DC (using 650 W DC power modules): ± 2 kV in differential mode; ± 4 kV in common mode S5720-52X-PWR-SI-AC (using 500 W AC power modules): ± 6 kV in differential mode; ± 6 kV in common mode S5720-52X-PWR-SI-AC (using 650 W DC power modules): ± 2 kV in differential mode; ± 4 kV in common mode S5720-52X-PWR-SI-DC (using 500 W AC power modules): ± 6 kV in differential mode; ± 6 kV in common mode S5720-52X-PWR-SI-DC (using 650 W DC power modules): ± 2 kV in differential mode; ± 4 kV in common mode S5720-52X-PWR-SI-ACF (using 1150 W AC power modules): ± 2 kV in differential mode; ± 4 kV in common mode S5720-14X-PWH-SI-AC: ± 6 kV in differential mode; ± 6 kV in common mode

Item		Specification
Dimensions (W x D x H)		S5720-28P-SI-AC: 442.0 mm x 420.0 mm x 44.4 mm (17.4 in. x 16.5 in. x 1.74 in.) S5720-52P-SI-AC: 442.0 mm x 420.0 mm x 44.4 mm (17.4 in. x 16.5 in. x 1.74 in.) S5720-28X-SI-AC: 442.0 mm x 420.0 mm x 44.4 mm (17.4 in. x 16.5 in. x 1.74 in.) S5720-28X-SI-DC: 442.0 mm x 420.0 mm x 44.4 mm (17.4 in. x 16.5 in. x 1.74 in.) S5720-52X-SI-AC: 442.0 mm x 420.0 mm x 44.4 mm (17.4 in. x 16.5 in. x 1.74 in.) S5720-52X-SI-DC: 442.0 mm x 420.0 mm x 44.4 mm (17.4 in. x 16.5 in. x 1.74 in.) S5720-28X-PWR-SI-AC: 442.0 mm x 420.0 mm x 44.4 mm (17.4 in. x 16.5 in. x 1.74 in.) S5720-28X-PWR-SI-DC: 442.0 mm x 420.0 mm x 44.4 mm (17.4 in. x 16.5 in. x 1.74 in.) S5720-52X-PWR-SI-AC: 442.0 mm x 420.0 mm x 44.4 mm (17.4 in. x 16.5 in. x 1.74 in.) S5720-52X-PWR-SI-DC: 442.0 mm x 420.0 mm x 44.4 mm (17.4 in. x 16.5 in. x 1.74 in.) S5720-52X-PWR-SI-ACF: 442.0 mm x 507.0 mm x 44.4 mm (17.4 in. x 19.97in. x 1.74 in.) S5720-14X-PWH-SI-AC: 442.0 mm x 310.0 mm x 43.6 mm (17.4 in. x 12.2 in. x 1.72 in.) S5720S-28P-SI-AC: 442.0mm × 220.0mm × 43.6mm S5720S-52P-SI-AC: 442.0mm × 220.0mm × 43.6mm S5720S-28X-SI-AC: 442.0mm × 220.0mm × 43.6mm S5720S-52X-SI-AC: 442.0mm × 220.0mm × 43.6mm
Weight	Fully loaded	≤ 12 kg (26.46 lb)
	Empty chassis	≤ 8 kg (17.64 lb)
Stack port		S5720-P-SI: GE electrical ports and GE SFP optical ports on the front panel, except the combo ports S5720-X-SI (except the S5720-14X-PWH-SI-AC): GE electrical ports and 10GE SFP+ optical ports on the front panel, except the combo ports S5720-14X-PWH-SI-AC: first eight GE electrical ports
RPS		Not supported by S5720-SI, and supported by S5720S-SI
PoE		Supported by PWR series and PWH serises
DC input voltage	Rated voltage range	-48V DC to -60V DC
	Maximum voltage range	-36V DC to -72V DC

Item		Specification
AC input voltage	Rated voltage range	100V AC to 240V AC; 50/60 Hz
	Maximum voltage range	90V AC to 264V AC; 47 Hz to 63 Hz
Maximum power consumption (100% throughput, full speed of fans)		S5720-28P-SI-AC: 34.6 W S5720-52P-SI-AC: 53.6 W S5720-28X-SI-AC: 37.5 W S5720-28X-SI-DC: 36.9 W S5720-52X-SI-AC: 56.8 W S5720-52X-SI-DC: 57.9 W S5720-28X-PWR-SI-AC: - Without PoE: 56.1 W - 100% PoE loads: 913 W (system power consumption: 173 W, PoE: 740 W) S5720-28X-PWR-SI-DC: - Without PoE: 56.3 W - 100% PoE loads: 887 W (system power consumption: 147 W, PoE: 740 W) S5720-52X-PWR-SI-AC: - Without PoE: 93.1 W - 100% PoE loads: 943.2 W (system power consumption: 203.2 W, PoE: 740 W) S5720-52X-PWR-SI-DC: - Without PoE: 79.7 W - 100% PoE loads: 907 W (system power consumption: 167 W, PoE: 740 W) S5720-52X-PWR-SI-ACF: - Without PoE: 94.8 W - 100% PoE loads: 1631.5 W (system power consumption: 191.5 W, PoE: 1440 W) S5720-14X-PWH-SI-AC: - Without PoE: 52 W - 100% PoE loads: 422 W (system power consumption: 52 W, PoE: 370 W) S5720S-28P-SI-AC: 29.1 W S5720S-52P-SI-AC: 51.5 W S5720S-28X-SI-AC: 32 W S5720S-52X-SI-AC: 54.7 W
Temperature	Operating temperature	0℃ to 45℃ (0 m-1800 m altitude) Note: When the altitude is between 1800 m and 5000 m, the operating temperature reduces by 1℃ every time the altitude increases by 220 m.
	Storage temperature	-40℃ to +70℃

Item	Specification
Noise under normal temperature (sound power)	S5720-28P-SI-AC: less than 52 dBA S5720-52P-SI-AC: less than 52 dBA S5720-28X-SI-AC: less than 52 dBA S5720-28X-SI-DC: less than 52 dBA S5720-52X-SI-AC: less than 52 dBA S5720-52X-SI-DC: less than 52 dBA S5720-28X-PWR-SI-AC: less than 56.5 dBA S5720-28X-PWR-SI-DC: less than 56.5 dBA S5720-52X-PWR-SI-AC: less than 56.5 dBA S5720-52X-PWR-SI-DC: less than 56.5 dBA S5720-52X-PWR-SI-ACF: less than 56.5 dBA S5720-14X-PWH-SI-AC: less than 52.8 dBA S5720S-28P-SI-AC: < 52 dBA S5720S-52P-SI-AC: < 52 dBA S5720S-28X-SI-AC: < 52 dBA S5720S-52X-SI-AC: < 52 dBA
Relative humidity	5%RH to 95%RH, noncondensing
Operating altitude	Non-PoE: - DC power equipped: 0 m to 2000 m - AC power equipped: 0 m to 5000 m PoE: 0 m to 5000 m

NOTE:

Switching capacity: also called switching bandwidth. It refers to the maximum volume of bidirectional traffic that can be transferred between the switching chip and data bus. This index indicates the data transferring capability of a switch.

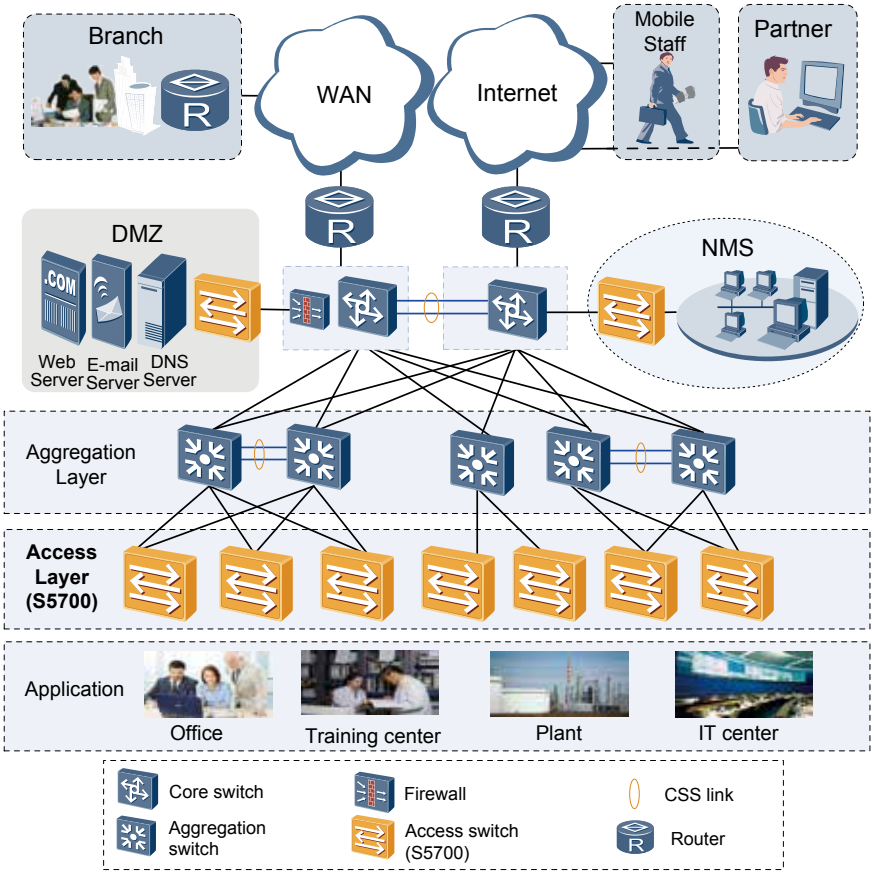
Forwarding performance: This index indicates the wire-speed forwarding capability of a switch when the switch processes 64-byte packets (plus an 8-byte preamble and a 12-byte IFG). It represents the packet header processing capability.

6 Networking and Applications

6.1 Large-Sized Enterprise Campus Network

As shown in Figure 6-1, the S5720-SI switches are located at the access layer to build a high-performance, reliable enterprise campus network.

Figure 6-1 Position of the S5720-SI on a large-sized enterprise campus network



The S5720-SI provides various terminal security management features, and supports functions such as PoE, voice VLAN, and QoS. The switch can be used for desktop access and provides gigabit access speed.

The S5720-SI 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.

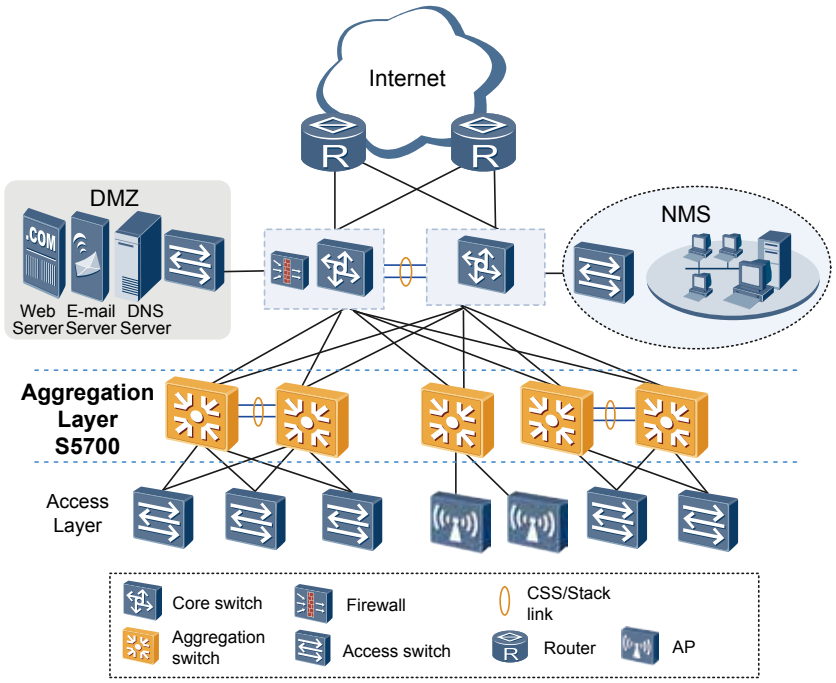
In addition, the switch supports the Link Aggregation Control Protocol (LACP) to provide multi-link access for servers, improving link bandwidth and reliability.

In terms of device management, the S5720-SI provides EasyOperation and USB-based deployment, which facilitates device deployment and management.

6.2 Small- and Middle-Sized Enterprise Campus Network

As shown in Figure 6-2, the S5720-SI switches are located at the aggregation layer to build a high-performance, reliable enterprise campus network.

Figure 6-2 Position of the S5720-SI on a small- and middle-sized enterprise campus network



On an enterprise network or campus network, the S5720-SI switches connect to access switches through gigabit or 10 gigabit interfaces, provide high performance and large switching capacity, and connect to core switches through 10 gigabit 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 S5720-SI provides SEP and RRPP to implement millisecond-level protection switchover. The switches 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 member switches can be managed in a uniform manner to facilitate network management and maintenance.

6.3 Small-Sized Enterprise Campus Network

As shown in Figure 6-3, the S5720-SI switches are the core switches of a small-sized enterprise campus network, which have powerful aggregation and routing capabilities. The S5720-SI switches use iStack to ensure high reliability. The switches provide various access control policies to achieve centralized user management and simplify configuration.

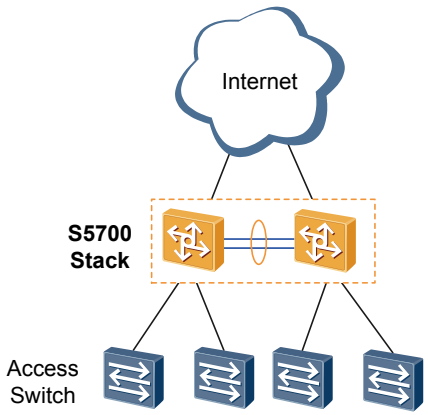
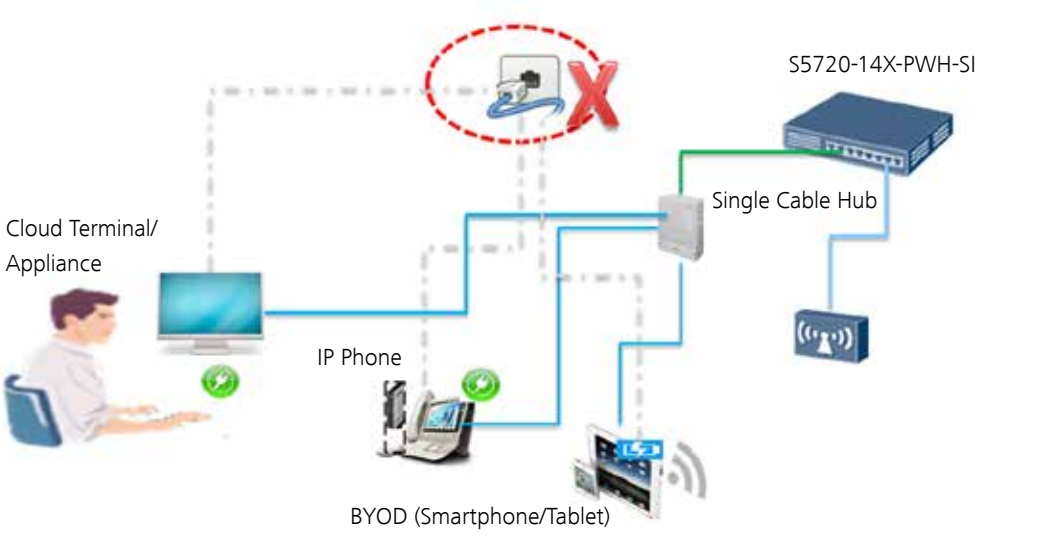


Figure 6-3 Position of the S5720-SI on a small-sized enterprise campus network

6.4 Enterprise office desktop systems

Figure 6-4 Position of the S5720-SI on a enterprise office desktop network

Huawei S5720-14X-PWH-SI UPOE+ switch that provides an ultra-large PoE power supply per port builds a Single Cable Solution for office desktop systems, enabling both power supply and network access for office desktop terminals through a single cable.



7 Product Accessories

7.1 Optical Modules and Fibers

The S5720-SI supports the following GE and 10GE optical modules:

- GE: 100 m electrical, 500 m optical multimode, 10/40/80/100 km optical single-mode, two pairs of bidirectional optical modules (10/40 km)
- 10GE: 100/220/300 m SFP+ multi-mode, 1.4/10/40/80 km optical SFP+

Optical fibers fall into single-mode and multimode fibers. Single-mode optical modules use single-mode fibers, and multi-mode optical modules use multi-mode fibers. For a non-BIDI optical module, each optical interface must be configured with a Tx optical fiber and an Rx optical fiber of the same type. For a BIDI optical module, only one optical fiber needs to be configured.

The fibers and optical modules supported by Huawei switches are updating. For the latest information, visit http://e.huawei.com or contact your local Huawei sales office.

7.2 Stack Cables

The S5720-SI switches support service port stacking. The applicable stack cables are as follows:

- AOC cable

An active optical network (AOC) cable integrates an optical module and fiber. The AOC cables are available in SFP-10G-AOC3M and SFP-10G-AOC10M.

- SFP+ high-speed cable

The SFP+ high-speed cable also integrates an optical module and cable. The SFP+ high-speed cables are available in SFP-10G-CU1M, SFP-10G-CU3M, SFP-10G-CU5M, and SFP-10G-CU10M.

Table 7-1 lists the stack cable types and connectors.

Table 7-1 Stack cables and connectors

Stack Cable	Model	Description
AOC	SFP-10G-AOC3M	Cable length: 3 m; connector: SFP+
	SFP-10G-AOC10M	Cable length: 5 m; connector: SFP+
SFP+ high-speed	SFP-10G-CU1M	Cable length: 1 m; connector: SFP+
	SFP-10G-CU3M	Cable length: 3 m; connector: SFP+
	SFP-10G-CU5M	Cable length: 5 m; connector: SFP+
	SFP-10G-CU10M	Cable length: 10 m; connector: SFP+

8 Safety and Regulatory Compliance

Table 8-1 lists the safety and regulatory compliance of S5720-SI.

Table 8-1 S5720-SI safety and regulatory compliance

Certification Category	Description	
Safety	IEC 60950-1 EN 60950-1/A11/A12 UL 60950-1 CSA C22.2 No 60950-1 AS/NZS 60950.1	CNS 14336-1 IEC60825-1 IEC60825-2 EN60825-1 EN60825-2
Electromagnetic Compatibility (EMC)	CISPR22 Class A CISPR24 EN55022 Class A EN55024 ETSI EN 300 386 Class A CFR 47 FCC Part 15 Class A ICES 003 Class A	AS/NZS CISPR22 Class A VCCI Class A IEC61000-4-2 ITU-T K 20 ITU-T K 21 ITU-T K 44 CNS13438
Environment	RoHS REACH WEEE	

NOTE:

- EMC: electromagnetic compatibility
- CISPR: International Special Committee on Radio Interference
- EN: European Standard
- ETSI: European Telecommunications Standards Institute
- CFR: Code of Federal Regulations
- FCC: Federal Communication Commission
- IEC: International Electrotechnical Commission
- AS/NZS: Australian/New Zealand Standard
- VCCI: Voluntary Control Council for Interference
- UL: Underwriters Laboratories
- CSA: Canadian Standards Association
- IEEE: Institute of Electrical and Electronics Engineers
- RoHS: restriction of the use of certain hazardous substances
- REACH: Registration Evaluation Authorization and Restriction of Chemicals
- WEEE: Waste Electrical and Electronic Equipment

9 MIB and Standards Compliance

9.1 Supported MIBs

Table 9-1 lists the MIBs supported by S5720-SI.

Table 9-1 S5720-SI MIBs

Category	MIB	
Public MIB	BRIDGE-MIB DISMAN-NSLOOKUP-MIB DISMAN-PING-MIB DISMAN-TRACEROUTE-MIB ENTITY-MIB EtherLike-MIB IF-MIB IP-FORWARD-MIB IPv6-MIB LAG-MIB LLDP-EXT-DOT1-MIB LLDP-EXT-DOT3-MIB LLDP-MIB NOTIFICATION-LOG-MIB NQA-MIB OSPF-TRAP-MIB	P-BRIDGE-MIB Q-BRIDGE-MIB RFC1213-MIB RIPv2-MIB RMON2-MIB RMON-MIB SAVI-MIB SNMP-FRAMEWORK-MIB SNMP-MPD-MIB SNMP-NOTIFICATION-MIB SNMP-TARGET-MIB SNMP-USER-BASED-SM-MIB SNMPv2-MIB TCP-MIB UDP-MIB

Category	MIB	
Huawei-proprietary MIB	HUAWEI-AAA-MIB	HUAWEI-IF-EXT-MIB
	HUAWEI-ACL-MIB	HUAWEI-INFOCENTER-MIB
	HUAWEI-ALARM-MIB	HUAWEI-IPPOOL-MIB
	HUAWEI-ALARM-RELIABILITY-MIB	HUAWEI-IPV6-MIB
	HUAWEI-BASE-TRAP-MIB	HUAWEI-ISOLATE-MIB
	HUAWEI-BRAS-RADIUS-MIB	HUAWEI-L2IF-MIB
	HUAWEI-BRAS-SRVCFG-EAP-MIB	HUAWEI-L2MAM-MIB
	HUAWEI-BRAS-SRVCFG-STATICUSER-MIB	HUAWEI-L2VLAN-MIB
	HUAWEI-CBQOS-MIB	HUAWEI_LDT-MIB
	HUAWEI-CDP-COMPLIANCE-MIB	HUAWEI-LLDP-MIB
	HUAWEI-CONFIG-MAN-MIB	HUAWEI-MAC-AUTHEN-MIB
	HUAWEI-CPU-MIB	HUAWEI-MEMORY-MIB
	HUAWEI-DAD-TRAP-MIB	HUAWEI-MFF-MIB
	HUAWEI-DC-MIB	HUAWEI-MFLP-MIB
	HUAWEI-DATASYNC-MIB	HUAWEI-MSTP-MIB
	HUAWEI-DEVICE-MIB	HUAWEI-MULTICAST-MIB
	HUAWEI-DHCPR-MIB	HUAWEI-NAP-MIB
	HUAWEI-DHCPS-MIB	HUAWEI-NTPV3-MIB
	HUAWEI-DHCP-SNOOPING-MIB	HUAWEI-PERFORMANCE-MIB
	HUAWEI-DIE-MIB	HUAWEI-PORT-MIB
	HUAWEI-DNS-MIB	HUAWEI-PORTAL-MIB
	HUAWEI-DLDP-MIB	HUAWEI-QINQ-MIB
	HUAWEI-ELMI-MIB	HUAWEI-RIPv2-EXT-MIB
	HUAWEI-ERPS-MIB	HUAWEI-RM-EXT-MIB
	HUAWEI-ERRORDOWN-MIB	HUAWEI-RRPP-MIB
	HUAWEI-ENERGYMNGT-MIB	HUAWEI-SECURITY-MIB
	HUAWEI-EASY-OPERATION-MIB	HUAWEI-SEP-MIB
	HUAWEI-ENTITY-EXTENT-MIB	HUAWEI-SNMP-EXT-MIB
	HUAWEI-ENTITY-TRAP-MIB	HUAWEI-SSH-MIB
	HUAWEI-ETHARP-MIB	HUAWEI-STACK-MIB
	HUAWEI-ETHOAM-MIB	HUAWEI-SWITCH-L2MAM-EXT-MIB
	HUAWEI-FLASH-MAN-MIB	HUAWEI-SWITCH-SRV-TRAP-MIB
	HUAWEI-FWD-RES-TRAP-MIB	HUAWEI-SYS-MAN-MIB
	HUAWEI-GARP-APP-MIB	HUAWEI-TCP-MIB
	HUAWEI-GTSM-MIB	HUAWEI-TFTPC-MIB
	HUAWEI-HGMP-MIB	HUAWEI-TRNG-MIB
	HUAWEI-HWTACACS-MIB	HUAWEI-XQOS-MIB

9.2 Standard Compliance

Table 9-2 lists the standards the S5720-SI complies with.

Table 9-2 S5720-SI standards compliance

Standard Organization	Standard or Protocol
IETF	RFC 768 User Datagram Protocol (UDP) RFC 792 Internet Control Message Protocol (ICMP) RFC 793 Transmission Control Protocol (TCP) RFC 826 Ethernet Address Resolution Protocol (ARP) RFC 854 Telnet Protocol Specification RFC 951 Bootstrap Protocol (BOOTP) RFC 959 File Transfer Protocol (FTP) RFC 1058 Routing Information Protocol (RIP) RFC 1112 Host extensions for IP multicasting RFC 1157 A Simple Network Management Protocol (SNMP) RFC 1256 ICMP Router Discovery RFC 1305 Network Time Protocol Version 3 (NTP) RFC 1349 Internet Protocol (IP) RFC 1493 Definitions of Managed Objects for Bridges RFC 1542 Clarifications and Extensions for the Bootstrap Protocol RFC 1643 Ethernet Interface MIB RFC 1757 Remote Network Monitoring (RMON) RFC 1901 Introduction to Community-based SNMPv2 RFC 1902-1907 SNMP v2 RFC 1981 Path MTU Discovery for IP version 6 RFC 2131 Dynamic Host Configuration Protocol (DHCP) RFC 2328 OSPF Version 2 RFC 2453 RIP Version 2 RFC 2460 Internet Protocol, Version 6 Specification (IPv6) RFC 2461 Neighbor Discovery for IP Version 6 (IPv6) RFC 2462 IPv6 Stateless Address Auto configuration RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6) RFC 2474 Differentiated Services Field (DS Field) RFC 2740 OSPF for IPv6 (OSPFv3) RFC 2863 The Interfaces Group MIB RFC 2597 Assured Forwarding PHB Group RFC 2598 An Expedited Forwarding PHB RFC 2571 SNMP Management Frameworks RFC 2865 Remote Authentication Dial In User Service (RADIUS) RFC 3046 DHCP Option82 RFC 3376 Internet Group Management Protocol, Version 3 (IGMPv3) RFC 3513 IP Version 6 Addressing Architecture RFC 3579 RADIUS Support For EAP RFC 4271 A Border Gateway Protocol 4 (BGP-4) RFC 4760 Multiprotocol Extensions for BGP-4 draft-grant-tacacs-02 TACACS+

Standard Organization	Standard or Protocol
IEEE	IEEE 802.1D Media Access Control (MAC) Bridges IEEE 802.1p Virtual Bridged Local Area Networks IEEE 802.1Q Virtual Bridged Local Area Networks IEEE 802.1ad Provider Bridges IEEE 802.2 Logical Link Control IEEE Std 802.3 CSMA/CD IEEE Std 802.3ab 1000BASE-T specification IEEE Std 802.3ad Aggregation of Multiple Link Segments IEEE Std 802.3ae 10GE WEN/LAN Standard IEEE Std 802.3x Full Duplex and flow control IEEE Std 802.3z Gigabit Ethernet Standard IEEE802.1ax/IEEE802.3ad Link Aggregation IEEE 802.3ah Ethernet in the First Mile. IEEE 802.1ag Connectivity Fault Management IEEE 802.1ab Link Layer Discovery Protocol IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol IEEE802.1x Port based network access control protocol IEEE802.3af DTE Power via MIDI IEEE802.3at DTE Power via the MDI Enhancements
ITU	ITU SG13 Y.17ethoam ITU SG13 QoS control Ethernet-Based IP Access ITU-T Y.1731 ETH OAM performance monitor
ISO	ISO 10589 IS-IS Routing Protocol
MEF	MEF 2 Requirements and Framework for Ethernet Service Protection MEF 9 Abstract Test Suite for Ethernet Services at the UNI MEF 10.2 Ethernet Services Attributes Phase 2 MEF 11 UNI Requirements and Framework MEF 13 UNI Type 1 Implementation Agreement MEF 15 Requirements for Management of Metro Ethernet Phase 1 Network Elements MEF 17 Service OAM Framework and Requirements MEF 20 UNI Type 2 Implementation Agreement MEF 23 Class of Service Phase 1 Implementation Agreement Xmodem XMODEM/YMODEM Protocol Reference

NOTE:

The listed standards and protocols are fully or partially supported by Huawei switches. For details, visit http://e.huawei.com or contact your local Huawei sales office.

10 Ordering Information

Table 10-1 Ordering list of S5720-SI series Ethernet switches

Product Description
S5720-28P-SI Bundle(24 Ethernet 10/100/1000 ports,4 of which are dual-purpose 10/100/1000 or SFP,4 Gig SFP,with 150W AC power supply)
S5720-28X-SI Bundle(24 Ethernet 10/100/1000 ports,4 of which are dual-purpose 10/100/1000 or SFP,4 10 Gig SFP+,with 150W AC power supply)
S5720-52P-SI Bundle(48 Ethernet 10/100/1000 ports,4 Gig SFP,with 150W AC power supply)
S5720-52X-SI Bundle(48 Ethernet 10/100/1000 ports,4 10 Gig SFP+,with 150W AC power supply)
S5720-28X-PWR-SI Bundle(24 Ethernet 10/100/1000 PoE+ ports,4 of which are dual-purpose 10/100/1000 or SFP,4 10 Gig SFP+,with 500W AC power)
S5720-52X-PWR-SI Bundle(48 Ethernet 10/100/1000 PoE+ ports,4 10 Gig SFP+,with 500W AC power)
S5720-52X-PWR-SI Bundle(48 Ethernet 10/100/1000 PoE+ ports,4 10 Gig SFP+,with 1150W AC power supply)
S5720S-28P-SI-AC(24 Ethernet 10/100/1000 ports,4 Gig SFP,AC 110/220V)
S5720S-28X-SI-AC(24 Ethernet 10/100/1000 ports,4 10 Gig SFP+,AC 110/220V)
S5720S-52P-SI-AC(48 Ethernet 10/100/1000 ports,4 Gig SFP,AC 110/220V)
S5720S-52X-SI-AC(48 Ethernet 10/100/1000 ports,4 10 Gig SFP+,AC 110/220V)
S5720-14X-PWH-SI-AC(8 Ethernet 10/100/1000 ports,4 Ethernet 2.5GE/GE ports，2 10 Gig SFP+,AC)
150W AC power supply
150W DC power supply
500W AC PoE power supply
650W DC PoE power supply
1150W AC PoE power supply
RPS1800

For more information, visit http://e.huawei.com or contact your local Huawei sales office.

11 Others

The latest version of S5720-SI is V2R9.

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