

Huawei S5720-LI Series Switches Product Brochure



S5720-LI Series Switches

Product Overview

The S5720-LI is a next-generation energy-saving gigabit Ethernet switch that provides flexible GE access ports and 10GE uplink ports. Building on next-generation, high-performance hardware and the Huawei Versatile Routing Platform (VRP), the S5720-LI supports intelligent stack (iStack), flexible Ethernet networking, and diversified security control. It provides customers with a green, easy-to-manage, easy-to-expand, and cost-effective gigabit to the desktop solution.

Product Appearance

S5720-12TP-LI-AC



- 8 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports, 2 × combo 10/100/1000Base-T Ethernet ports
- AC power supply
- Forwarding performance: 27 Mpps
- Switching capacity: 336 Gbit/s

S5720-12TP-PWR-LI-AC



- 8 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports, 2 × combo 10/100/1000Base-T Ethernet ports
- AC power supply
- PoE+
- Forwarding performance: 27 Mpps
- Switching capacity: 336 Gbit/s

S5720-28P-LI-AC



- 24 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports
- AC power supply
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-28P-PWR-LI-AC



- 24 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports
- AC power supply
- PoE+
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-52P-LI-AC



- 48 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports
- AC power supply
- Forwarding performance: 87 Mpps
- Switching capacity: 336 Gbit/s

S5720-52P-PWR-LI-AC



- 48 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports
- AC power supply
- PoE+
- Forwarding performance: 87 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-LI-AC S5720-28X-LI-DC



- 24 × Ethernet 10/100/1000 Base-T ports, 4 × 10 Gig SFP+ ports
- Two models: AC model and DC model, supporting RPS (redundant power supply)
- Forwarding performance: 108 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-PWR-LI-AC



- 24 × Ethernet 10/100/1000 Base-T ports, 4 × 10 Gig SFP+ ports
- AC power supply, supporting RPS (redundant power supply)
- PoE+
- Forwarding performance: 108 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-LI-24S-AC



S5720-28X-LI-24S-DC



- 24 × Gig SFP ports, 8 × combo 10/100/1000Base-T Ethernet ports, 4 × 10 Gig SFP+ ports
- Two models: AC model and DC model, supporting RPS (redundant power supply)
- Forwarding performance: 108 Mpps
- Switching capacity: 336 Gbit/s

S5720-52X-LI-AC S5720-52X-LI-DC



- 48 × Ethernet 10/100/1000 Base-T ports, 4 × 10 Gig SFP+ ports
- Two models: AC model and DC model, supporting RPS (redundant power supply)
- Forwarding performance: 144 Mpps
- Switching capacity: 336 Gbit/s

S5720-52X-PWR-LI-AC



- 48 × Ethernet 10/100/1000 Base-T ports, 4 × 10 Gig SFP+ ports
- AC power supply, supporting RPS (redundant power supply)
- PoE+
- Forwarding performance: 144 Mpps
- Switching capacity: 336 Gbit/s

S5720-28TP-LI-AC



- 24 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports, 2 × combo 10/100/1000Base-T Ethernet ports
- AC power supply
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-28TP-PWR-LI-AC



- 24 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports, 2 × combo 10/100/1000Base-T Ethernet ports
- AC power supply
- PoE+
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-28TP-PWR-LI-ACL



- 24 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports, 2 × combo 10/100/1000Base-T Ethernet ports
- AC power supply
- 8-port PoE+
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-16X-PWH-LI-AC



- 12 × Ethernet 10/100/1000 PoE++ ports, 2 × Ethernet 10/100/1000 Base-T ports, 2 × 10 Gig SFP+ ports
- AC power supply
- PoE++
- Forwarding performance: 51 Mpps
- Switching capacity: 336 Gbit/s

S5720-28X-PWH-LI-AC



- 16 × Ethernet 10/100/1000 Base-T ports, 8 × 100M/1G/2.5G Base-T ports, 4 × 10 Gig SFP+ ports
- AC power supply, supporting RPS (redundant power supply)
- Forwarding performance: 126 Mpps
- Switching capacity: 336 Gbit/s

Product Features and Highlights

Flexible Ethernet networking

- In addition to traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), the S5720-LI 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 50ms. ERPS is defined in ITU-T G.8032. It implements millisecond-level protection switching based on traditional Ethernet MAC and bridging functions.

- The S5720-LI supports Smart Link, which implements backup of uplinks. One S5720-LI switch can connect to multiple aggregation switches through multiple links, significantly improving reliability of access devices.
- The S5720-LI supports Ethernet OAM (IEEE 802.3ah/802.1ag) to fast-detect link faults.

Diversified security control

- The S5720-LI 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, and implements dynamic policy delivery (VLAN, QoS, and ACL) to users.
- The S5720-LI 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 changing of the DHCP CHADDR value.
- The S5720-LI collects and maintains information about access users, such as IP addresses, MAC addresses, IP address leases, VLAN IDs, and interface numbers in a DHCP snooping binding table. In this way, IP addresses and access interfaces of DHCP users can be tracked. You can specify DHCP snooping trusted and untrusted ports to ensure that users connect only to the authorized DHCP server.
- The S5720-LI supports strict ARP learning. This feature prevents ARP spoofing attackers from exhausting ARP entries so that users can connect to the Internet normally.

Easy operation and maintenance

- The S5720-LI supports Huawei Easy Operation, a solution that provides zero-touch deployment, replacement of faulty devices without additional configuration, USB-based deployment, batch configuration, and batch remote upgrade. The Easy Operation solution facilitates device deployment, upgrade, service provisioning, and other management and maintenance operations, and also greatly reduces costs of operation and maintenance. The S5720-LI can be managed and maintained using Simple Network Management Protocol (SNMP) V1, V2, and V3, Command Line Interface (CLI), web-based network management system, 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 helps with network consolidation and reconstruction.
- The S5720-LI supports Super Virtual Fabric (SVF), which virtualizes the "Core/aggregation + Access switch + AP" structure into a logical device. The S5720-LI enables the simplest network management solution in the industry. It allows plug-and-play access switches and APs. In addition, the S5720-LI supports service configuration templates. The templates are configured on core devices and automatically delivered to access devices, enabling centralized control, simplified service configuration, and flexible configuration modification. The S5720-LI functions as a client in an SVF system.
- The S5720-LI 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. Additionally, the S5720-LI supports MUX VLAN, 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. The S5720-LI also supports VLAN Central Management Protocol (VCMP) and VLAN-Based Spanning Tree (VBST) protocol.

iStack

- The S5720-LI 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. The S5720-LI support stacking through electrical ports.

Excellent network traffic analysis

- The S5720-LI 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.

Easy O&M with front panel

- The models with front power sockets can be installed in a 300 mm deep cabinet, and can be maintained through the front panel. This simplifies operation and maintenance. The cabinets can be placed against the wall or back to back, and is well-suited for shallow cabinets and limited equipment room space.

Cloud-based management

- The S5720-LI can work in cloud-based management mode or traditional management based on requirements. In cloud-based management mode, the S5720-LI can be monitored, managed, and configured on the Huawei agile cloud management platform (Agile Controller-Cloud Manager). A mobile O&M App is also supported.

PoE++ ultra-large power supply

- The PoE++ model provides an up to 60W 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.

Product Specifications

Item	S5720-12TP-LI-AC S5720-12TP-PWR-LI-AC	S5720-28P-LI-AC S5720-28P-PWR-LI-AC S5720-28X-LI-AC(DC) S5720-28X-PWR-LI-AC	S5720-28X-LI-24S-AC(DC)	S5720-52P-LI-AC S5720-52P-PWR-LI-AC S5720-52X-LI-AC(DC) S5720-52X-PWR-LI-AC	S5720-28TP-LI-AC S5720-28TP-PWR-LI-AC S5720-28TP-PWR-LI-ACL	S5720-16X-PWH-LI-AC	S5720-28X-PWH-LI-AC
Fixed ports	8 × Ethernet 10/100/1000 ports, 4 × Gig SFP ports and 2 × combo 10/100/1000 Base-T Ethernet ports	24 × Ethernet 10/100/1000 ports, P Series: 4 × Gig SFP X Series: 4 × 10 Gig SFP+	24 × Gig SFP, 8 × combo 10/100/1000 Base-T Ethernet ports, 4 × 10 Gig SFP+	48 × Ethernet 10/100/1000 ports P Series: 4 × Gig SFP X Series: 4 × 10 Gig SFP+	24 × Ethernet 10/100/1000 Base-T ports, 4 × Gig SFP ports and 2 × combo 10/100/1000 Base-T Ethernet ports	12 × Ethernet 10/100/1000 PoE++ ports, 2 × Ethernet 10/100/1000 ports, 2 × 10 Gig SFP+	16 × Ethernet 10/100/1000 ports, 8 × 100M/1G/2.5G ports, 4 × 10 Gig SFP+
MAC address table	16K MAC address entries MAC address learning and aging Static, dynamic, and blackhole MAC address entries Packet filtering based on source MAC addresses Interface-based MAC learning limiting						
VLAN features	4K VLANs Guest VLAN and voice VLAN GVRP MUX VLAN VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and interfaces 1:1 and N:1 VLAN mapping						
Jumbo frame	10K						
Delay	2.5 us						

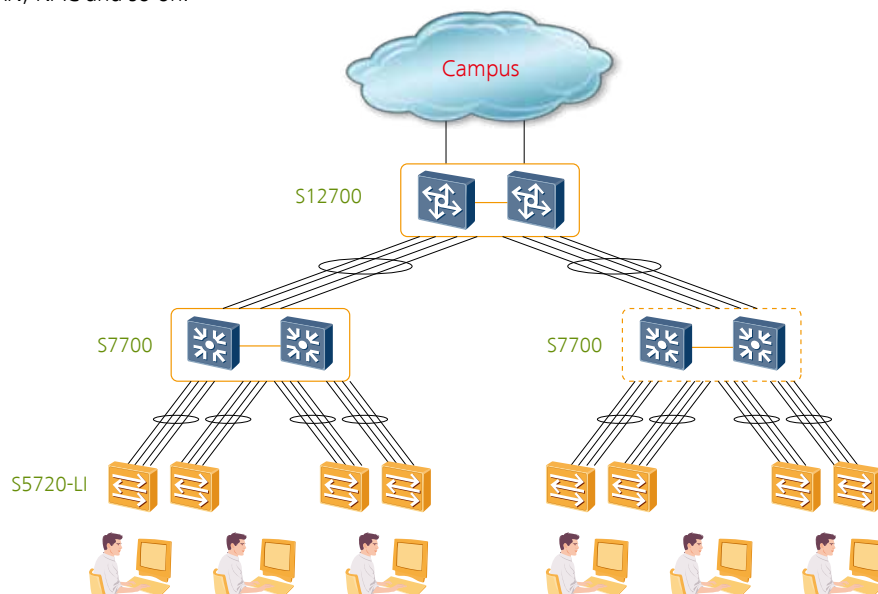
Item	S5720-12TP-LI-AC S5720-12TP-PWR-LI-AC	S5720-28P-LI-AC S5720-28P-PWR-LI-AC S5720-28X-LI-AC(DC) S5720-28X-PWR-LI-AC	S5720-28X-LI-24S-AC(DC)	S5720-52P-LI-AC S5720-52P-PWR-LI-AC S5720-52X-LI-AC(DC) S5720-52X-PWR-LI-AC	S5720-28TP-LI-AC S5720-28TP-PWR-LI-AC S5720-28TP-PWR-LI-ACL	S5720-16X-PWH-LI-AC	S5720-28X-PWH-LI-AC
Ethernet loop protection	RRPP ring topology and RRPP multi-instance Smart Link tree topology and Smart Link multi-instance, providing millisecond-level protection switchover SEP ERPS (G.8032) STP(IEEE 802.1d), RSTP(IEEE 802.1w), and MSTP(IEEE 802.1s) BPDU protection, root protection, and loop protection BPDU tunnel						
Reliability	VRRP/VRRP for BFD,VRRP6 EFM OAM (802.3ah) CFM OAM (802.1ag) ITU-Y.1731 DLDP LACP						
IP routing	Static route, RIP, RIPng, OSPF						
IPv6 features	Neighbor Discovery (ND) Path MTU (PMTU) IPv6 ping, IPv6 tracer, and IPv6 Telnet ACLs based on the source IPv6 address, destination IPv6 address, Layer 4 ports, and protocol type MLDv1/v2 snooping						
Multicast	IGMPv1/v2/v3 snooping and IGMP fast leave Multicast forwarding in a VLAN and multicast replication between VLANs Multicast load balancing among member ports of a trunk Controllable multicast Interface-based multicast traffic statistics						
QoS/ACL	Rate limiting on packets sent and received by an interface Packet redirection Interface-based traffic policing and two-rate and three-color CAR Eight queues on each interface WRR, DRR, SP, WRR+SP, and DRR+SP queue scheduling algorithms Re-marking of the 802.1p priority and DSCP priority Packet filtering at Layer 2 to Layer 4, filtering out invalid frames based on the source MAC address, destination MAC address, source IP address, destination IP address, TCP/UDP port number, protocol type, and VLAN ID Rate limiting in each queue and traffic shaping on interfaces						
Security	Hierarchical user management and password protection DoS attack defense, ARP attack defense, and ICMP attack defense Binding of the IP address, MAC address, interface number, and VLAN ID Port isolation, port security, and sticky MAC MFF Blackhole MAC address entries Limit on the number of learned MAC addresses IEEE 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 DHCP relay, DHCP server, DHCP snooping DHCPv6 relay, DHCPv6 server, DHCPv6 snooping						

Item	S5720-12TP-LI-AC S5720-12TP-PWR-LI-AC	S5720-28P-LI-AC S5720-28P-PWR-LI-AC S5720-28X-LI-AC(DC) S5720-28X-PWR-LI-AC	S5720-28X-LI-24S-AC(DC)	S5720-52P-LI-AC S5720-52P-PWR-LI-AC S5720-52X-LI-AC(DC) S5720-52X-PWR-LI-AC	S5720-28TP-LI-AC S5720-28TP-PWR-LI-AC S5720-28TP-PWR-LI-ACL	S5720-16X-PWH-LI-AC	S5720-28X-PWH-LI-AC
Lightning protection	Service interface: 7 kV						
Super Virtual Fabric (SVF)	Working as an SVF client that is plug-and-play with zero configuration Automatically loading the system software package and patches of clients One-click and automatic delivery of service configurations Supports independent running client						
Management and maintenance	iStack Virtual Cable Test (VCT) Remote configuration and maintenance using Telnet SNMPv1/v2c/v3 RMON web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE Dying Gasp (S5720-X-LI, S5720-TP-LI series)						
Interoperability	Supports VBST (Compatible with PVST/PVST+/RPVST) Supports LNP (Similar to DTP) Supports VCMP (Similar to VTP)						
Operating environment	S5720-16X-PWH-LI-AC: Operating temperature: 0-1800 m: 0-55 °C; 1800-5000 m: decrease 1 °C when the altitude increases every 220 m Relative humidity: 5% to 95% (non-condensing) Other models of the devices: Operating temperature: 0-1800 m: 0-45 °C; 1800-5000 m: decrease 1 °C when the altitude increases every 220 m Relative humidity: 5% to 95% (non-condensing)						
Input voltage	AC: Rated voltage range: 100 V to 240 V AC, 50/60 Hz Maximum voltage range: 90 V to 264 V AC, 47/63 Hz DC: Rated voltage range: -48 V to -60 V, DC Maximum voltage range: -36 V to -72 V, DC Note: Models supporting PoE do not use DC power supplies.						
Dimensions (W x D x H)	S5720-12TP-LI-AC: 250mm x 180mm x 43.6mm S5720-12TP-PWR-LI-AC: 320mm x 220mm x 43.6mm S5720-16X-PWH-LI-AC: 320mm x 263mm x 43.6mm S5720-28P-LI-AC/S5720-52P-LI-AC/S5720-28X-LI-AC/S5720-28X-LI-DC /S5720-28X-LI-24S-AC/ S5720-28X-LI-24S-DC/S5720-52X-LI-AC/S5720-52X-LI-DC/S5720-28TP-LI-AC/S5720-28TP-PWR-LI-ACL: 442mm x 220mm x 43.6mm S5720-28P-PWR-LI-AC/S5720-28X-PWR-LI-AC/S5720-52P-PWR-LI-AC/ S5720-52X-PWR-LI-AC/ S5720-28TP-PWR-LI-AC/ S5720-28X-PWH-LI-AC: 442mm x 310mm x 43.6mm						

Item	S5720-12TP-LI-AC S5720-12TP-PWR-LI-AC	S5720-28P-LI-AC S5720-28P-PWR-LI-AC S5720-28X-LI-AC(DC) S5720-28X-PWR-LI-AC	S5720-28X-LI-24S-AC(DC)	S5720-52P-LI-AC S5720-52P-PWR-LI-AC S5720-52X-LI-AC(DC) S5720-52X-PWR-LI-AC	S5720-28TP-LI-AC S5720-28TP-PWR-LI-AC S5720-28TP-PWR-LI-ACL	S5720-16X-PWH-LI-AC	S5720-28X-PWH-LI-AC
Max. Power Consumption	S5720-12TP-LI-AC: 12.85W S5720-12TP-PWR-LI-AC: without PD: 15.61W; with PD: 160.5W (PoE: 123.2W) S5720-28P-LI-AC: 20.2W S5720-28P-PWR-LI-AC: without PD: 40.4W; with PD: 446.7W (PoE: 369.6W) S5720-52P-LI-AC: 47.3W S5720-52P-PWR-LI-AC: without PD: 61.7W; with PD: 461.8W (PoE: 369.6W) S5720-28X-LI-AC/S5720-28X-LI-DC: 29.5W S5720-28X-PWR-LI-AC: without PD: 42.7W; with PD: 448.5W (PoE: 369.6W) S5720-28X-LI-24S-AC: 41.7W S5720-28X-LI-24S-DC: 42.7W S5720-52X-LI-AC: 50.3W S5720-52X-LI-DC: 51.6W S5720-52X-PWR-LI-AC: without PD: 63.5W; with PD: 464.3W (PoE: 369.6W) S5720-28TP-LI-AC: 22.1W S5720-28TP-PWR-LI-AC: without PD: 38.8W; with PD: 444.8W (PoE: 369.6W) S5720-28TP-PWR-LI-ACL: without PD: 24.4W; with PD: 165.528W (PoE: 123.2W) S5720-16X-PWH-LI-AC: without PD: 31.5W; with PD: 437.5W (PoE: 360W) S5720-28X-PWH-LI-AC: without PD: 67.3W; with PD: 473W (PoE: 360W)						

Applications

The S5720-LI provides 1000M desktop access functions for a high performance network, such as voice VLAN, NAC and so on.



Product List

Product Description
S5720-12TP-LI-AC(8 Ethernet 10/100/1000 ports, 4 Gig SFP and 2 combo 10/100/1000 Base-T Ethernet ports, AC 110/220V)
S5720-12TP-PWR-LI-AC(8 Ethernet 10/100/1000 ports, 4 Gig SFP and 2 combo 10/100/1000 Base-T Ethernet ports, AC 110/220V)
S5720-28P-LI-AC(24 Ethernet 10/100/1000 ports,4 Gig SFP,AC 110/220V)
S5720-28X-LI-AC(24 Ethernet 10/100/1000 ports,4 10 Gig SFP+,AC 110/220V)
S5720-28X-LI-DC(24 Ethernet 10/100/1000 ports,4 10 Gig SFP+,DC -48V)
S5720-28P-PWR-LI-AC(24 Ethernet 10/100/1000 PoE+ ports,4 Gig SFP, AC 110/220V)
S5720-28X-PWR-LI-AC(24 Ethernet 10/100/1000 PoE+ ports,4 10 Gig SFP+, AC 110/220V)
S5720-52P-LI-AC(48 Ethernet 10/100/1000 ports,4 Gig SFP,AC 110/220V)
S5720-52X-LI-AC(48 Ethernet 10/100/1000 ports,4 10 Gig SFP+,AC 110/220V)
S5720-52X-LI-DC(48 Ethernet 10/100/1000 ports,4 10 Gig SFP+,DC -48V)
S5720-52P-PWR-LI-AC(48 Ethernet 10/100/1000 PoE+ ports,4 Gig SFP, AC 110/220V)
S5720-52X-PWR-LI-AC(48 Ethernet 10/100/1000 PoE+ ports,4 10 Gig SFP+, AC 110/220V)
S5720-28X-LI-24S-AC(24 Gig SFP,8 combo 10/100/1000 Base-T Ethernet ports,4 10 Gig SFP+,AC 110/220V)
S5720-28X-LI-24S-DC(24 Gig SFP,8 combo 10/100/1000 Base-T Ethernet ports,4 10 Gig SFP+,DC -48V)
S5720-28TP-PWR-LI-ACL(24 Ethernet 10/100/1000 Base-T ports, 4 Gig SFP and 2 combo 10/100/1000Base-T Ethernet ports, 8-port PoE+, AC 110/220V)
S5720-28TP-PWR-LI-AC(24 Ethernet 10/100/1000 Base-T PoE+ ports, 4 Gig SFP and 2 combo 10/100/1000 Base-T Ethernet ports, AC 110/220V)
S5720-28TP-LI-AC(24 Ethernet 10/100/1000 Base-T ports, 4 Gig SFP and 2 combo 10/100/1000 Base-T Ethernet ports, AC 110/220V)
S5720-16X-PWH-LI-AC(12 Ethernet 10/100/1000 PoE++ ports,2 Ethernet 10/100/1000 ports,2 10 Gig SFP+,360W POE AC 110/220V)
S5720-28X-PWH-LI-AC(16 × Ethernet 10/100/1000 ports, 8 × 100M/1G/2.5G ports,4 × 10 Gig SFP+, AC 110/220V)
RPS1800 Redundant Power System

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

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