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Overview

The S5700-52C-PWR-SI is gigabit Layer 3 Ethernet switch based on new generation of high-performance hardware and Huawei Versatile Routing Platform (VRP). With 48 GE ports(10/100/1000Base-T), it provides a large switching capacity and constant power supply for users based on special PoE function, applicable to various scenarios. Besides, the device can be equipped with multiple card modules to satisfy customers' different needs. The S5700-52C-PWR-SI integrates many advanced technologies in terms of reliability, security, and energy conservation in order to help enterprise customers build a next-generation IT network.

Quick Specification

Table 1 shows the quick specification.

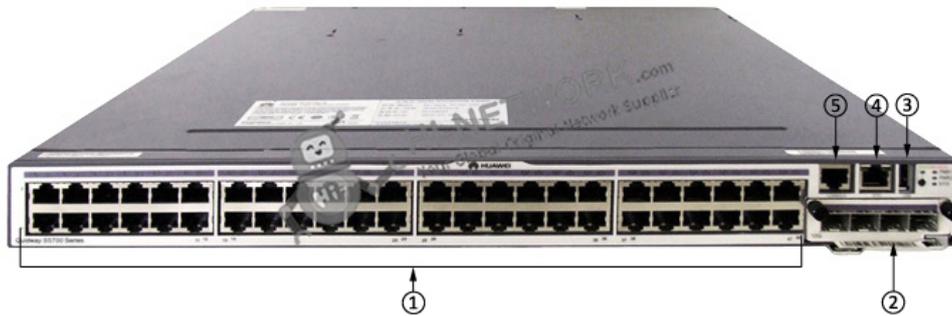
Model	S5700-52C-PWR-SI
Part Number	02354135
Ports	48 × 10/100/1,000 Base-T
Extended Slots	2 extended slots, one for an uplink subcard and the other for a stack card.
Memory (RAM)	256 MB
Flash	32 MB
MAC Address Table Size	16 MAC
Subcard Supported	4 x 1,000 Base-X SFP subcard 2 x 10 GE SFP+ subcard 4 x 10 GE SFP+ subcard
Voltage Required	AC: Rated voltage range: 100V to 240V, 50/60 Hz Maximum voltage range: 90V to 264V, 50/60 Hz
Power Device	Do double hot-swappable AC power supplies
Power Consumption Operational	<917W (PoE: 740W)
Forwarding performance	132 Mpps
Switching capacity	256 Gbit/s
Dimensions (W x D x H)	442 mm x 420 mm x 43.6 mm
Weight	6.2 kg
PoE	Supported

Figure 1 shows the appearance of S5700-52C-PWR-SI.



Product Details

Figure 2 shows the front panel of S5700-52C-PWR-SI.



Note:

(1)	Forty-eight PoE+ 10/100/1000BASE-T ports	(4)	ETH management port
(2)	Front card slot	(5)	One console port
(3)	USB port		

* The front card slot is equipped with the card module, but the card module should be purchased separately.

Figure 3 shows the back panel of S5700-52C-PWR-SI.



Note:

(1)	ESD jack	(4)	Power module slot 2
(2)	Rear card slot	(5)	Power module slot 1
(3)	Fan slot		

* Ventilating fan, cards and power modules have been installed in the diagram, but they should be purchased alone.

* Before installing or maintaining a switch, wear an ESD wrist strap and insert the other end of the ESD wrist strap into this ESD jack.

Recommended Modules

Table 2 shows the recommended modules.

Model	Description
Power module	
W0PSA5000	500W AC Power Module (gray)
Optical Transceivers	
OMXD30000	Optical Transceiver, SFP+, 10G, Multi-mode Module (850nm, 0.3km, LC)
OSX010000	Optical Transceiver, SFP+, 10G, Single-mode Module (1310nm, 10km, LC)
SFP-10G-USR	10GBase-USR Optical Transceiver, SFP+, 10G, Multi-mode Module (850nm, 0.1km, LC)
eSFP-GE-SX-MM850	Optical Transceiver, eSFP, GE, Multi-mode Module (850nm, 0.5km, LC)
eSFP-GE-ZX100-SM1550	eSFP, GE, Single-mode Module (1550nm, 100km, LC)
Copper Transceivers	
SFP-1000BaseT	1000BASE-T (RJ45) SFP Electrical Module, Auto Negotiate, 100m
Card	
ES5D000X2S00	2 10 Gig SFP+ interface card (used in S5700SI and S5700EI series)

Compare to Similar Items

Table 3 shows the comparison of Huawei S5700-52C-SI, 5700-52C-SI-AC and S5700-52C-PWR-SI.

Models	S5700-52C-SI	S5700-52C-SI-AC	S5700-52C-PWR-SI
Fixed Ports	48 x 10/100/1,000 Base-T	48 x 10/100/1,000 Base-T	48 x 10/100/1,000 Base-T
Extended Slots	2 extended slots, one for an uplink subcard and the other for a stack card	2 extended slots, one for an uplink subcard and the other for a stack card	2 extended slots, one for an uplink subcard and the other for a stack card
Power Supply	Double hot-swappable AC/DC	Double hot-swappable AC/DC	Double hot-swappable AC, PoE+
Forwarding Performance	132 Mpps	132 Mpps	132 Mpps
Switching Capacity	256 Gbit/s	256 Gbit/s	256 Gbit/s
Power Consumption	< 78W	< 78W	< 917W (PoE: 740W)

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Do you have any question about the S5700-52C-PWR-SI (02354135)?

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Specification

S5700-52C-PWR-SI Specification	
MAC address table	IEEE 802.1d compliance
	MAC address learning and aging
	Static, dynamic, and blackhole MAC address entries
	Packet filtering based on source MAC addresses
	MAC address entries:
	S5700S-LI series: 8K, S5700-LI/S5700-SI series: 16K, S5700-EI series: 32K, S5720-EI series: 64K, S5700-HI series: S5700-HI: 32K, S5710-HI: 456K, S5720-HI: 128K
VLAN	4K VLANs
	Guest VLAN and voice VLAN
	GVRP
	MUX VLAN
	VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and ports
	1:1 and N:1 VLAN Mapping

	SuperVLAN (supported by the S5700-SI/S5700-EI/S5700-HI series)
Ring protection	RRPP ring topology and RRPP multi-instance
	Smart Link tree topology and Smart Link multi-instance, providing the millisecond-level protection switchover
	SEP
	ERPS (G.8032) (supported by the S5700-LI/S5700-SI/S5700-EI/S5700-HI series)
	STP, RSTP, and MSTP
	BPDU protection, root protection, and loop protection
	BPDU Tunnel
Reliability	Ethernet OAM (IEEE 802.3ah and 802.1ag)
	ITU-Y.1731
	DLDP
	LACP
	E-Trunk (supported by the S5700-SI/S5700-EI/S5700-HI series)
	BFD for OSPF, BFD for IS-IS, BFD for VRRP, and BFD for PIM (supported by the S5700-EI/S5700-HI series)
MPLS features	MPLS L3VPN
	MPLS L2VPN(VPWS/VPLS)
	MPLS-TE
	MPLS QoS
	Notes: supported by S5710-EI, S5700-HI and S5710-HI
IP routing	Static routing
	RIPv1, RIPv2 and RIPv3, ECMP (supported by the S5700-SI/S5700-EI/S5700-HI series)
	OSPF, OSPFv3, IS-IS, IS-ISv6, BGP and BGP4+ (supported by the S5700-EI/S5700-HI series)
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, or protocol type
	MLD v1/v2 snooping
	6to4 tunnel, ISATAP tunnel, and manually configured tunnel (supported by the S5700-SI/S5700-EI/S5700-HI series)
Multicast	IGMP v1/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
	Port-based multicast traffic statistics
	IGMP v1/v2/v3, PIM-SM, PIM-DM, PIM-SSM, MSDP (supported by the S5700-EI/S5700-HI series)
QoS/ACL	Rate limiting on packets sent and received by an interface

	Packet redirection
	Port-based traffic policing and two-rate three-color CAR
	Eight queues on each port
	WRR, DRR, SP, WRR+SP, and DRR+SP queue scheduling algorithms
	WRED (supported by the S5710-EI and S5700-HI)
	Re-marking of the 802.1p priority and DSCP priority
	Packet filtering at Layers 2 through 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 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
	MFF
	Blackhole MAC address entries
	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	
Access Security	DHCP Relay, DHCP Server, DHCP Snooping, DHCP Security
Management and maintenance	Virtual cable test
	Port mirroring and RSPAN (remote port mirroring)
	Remote configuration and maintenance using Telnet
	SNMP v1/v2c/v3
	RMON
	Web NMS
	HGMP
	System logs and alarms of different levels
	802.3az EEE (supported by the S5700(S)-LI, S5710-EI, S5700-HI and S5710-HI)
	Dying gasp (supported by the S5700-HI, S5710-HI and S5700(S)-LI (except battery LAN switches))
	NetStream (supported by the S5710-EI, S5700-HI and S5710-HI)
sFlow (supported by the S5700(S)-LI/S5700-EI/S5700-HI series)	
Interoperability	Supports VBST (Compatible with PVST/PVST+/RPVST)

	Supports LNP (Similar to DTP)
	Supports VCMP (Similar to VTP)
Operating environment	Operating temperature: 0°C–50°C Relative humidity: 10%–90% (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: PoE-support switches do not use DC power supplies.

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