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Overview

Huawei S5700-28P-LI-BAT is one of the S5700-LI switches. The S5700-LI series gigabit enterprise switches (S5700-LI) 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-LI provides a large switching capacity and high-density GE ports. The S5700-LI 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-LI is easy to install and maintain, reducing workloads for network planning, construction, and maintenance. Featuring advanced reliability, security, and energy conservation technologies, the S5700-LI helps enterprise customers build next-generation IT networks.

Quick Specification

Table 1 shows the quick specification.

| Model | S5700-28P-LI-BAT | |
|---------------------------------|--|--|
| Part Number | 98010509 | |
| Fixed Interfaces | 24 x 10/100/1,000 Base-T Ethernet ports, 4 x GE SFP ports | |
| Power Supply | AC power supply | |
| Forwarding Performance | 42 Mpps | |
| Switching Capacity | 256 Gbit/s | |
| Memory (RAM) | 256 MB | |
| Flash | 200 MB | |
| RPS | Not supported | |
| РоЕ | Not supported | |
| Maximum power consumption (100% | 23 W | |
| throughput, full speed of fans) | | |
| Dimensions (W x D x H) | 442.0 mm x 310.0 mm x 43.6 mm (17.4 in. x 12.2 in. x 1.72 in.) | |
| Weight | \leq 5 kg (11.02 lb) | |



S5700-28P-LI-BAT (98010509) Datasheet



Figure 1 shows the appearance of S5700-28P-LI-BAT.



Product Details

Figure 2 shows the front panel of S5700-28P-LI-BAT.



Note:

| (1) | Twenty-four 10/100/1000BASE-T ports | (3) | One console port |
|---------------------------|-------------------------------------|-----|------------------|
| (2) Four 1000BASE-X ports | | | |

Figure 3 shows the back panel of S5700-28P-LI-BAT.



Note:

| (1) | Ground screw | (3) | Jack for AC terminal locking latch |
|-----|--------------|-----|------------------------------------|
| (2) | AC socket | (4) | Battery slot |



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The Modules

Table 2 shows the recommended elements for the S5700-28P-LI-BAT.

| Model | Description | | |
|----------------------|---|--|--|
| | GE-SFP Optical Transceiver | | |
| eSFP-GE-SX-MM850 | Optical Transceiver, eSFP, GE, Multi-mode Module (850nm, 0.55km, LC) | | |
| SFP-GE-LX-SM1310 | Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 10km, LC) | | |
| S-SFP-GE-LH40-SM1310 | Optical Transceiver, eSFP, GE, Single-mode Module (1310nm, 40km, LC) | | |
| S-SFP-GE-LH40-SM1550 | Optical Transceiver, eSFP, GE, Single-mode Module (1550nm, 40km, LC) | | |
| | GE Copper Transceiver | | |
| SFP-10G-USR | Electrical Transceiver, SFP, GE, Electrical Interface Module (100m, RJ45) | | |
| | Lithium Battery Module | | |
| BAT-8AHA | Huawei BAT-8AHA Rechargeable Battery for S5700 | | |
| BAT-4AHA | Huawei BAT-4AHA Lithium ion battery unit for S5700 | | |

Compare to Similar Items

Table 3 shows the comparison of Huawei S5700-28P-LI-BAT, S5700-28X-LI-DC and S5700-28X-LI-24S-DC.

| Model | S5700-28P-LI-BAT | <u>S5700-28X-LI-DC</u> | S5700-28X-LI-24S-DC |
|---|--|---|---|
| Fixed Interfaces | 24 x 10/100/1,000 Base-T Ethernet ports, 4 x GE SFP ports | 24 x 10/100/1,000 Base-T Ethernet ports, 4 x 10 GE SFP+ ports | 24 x GE SFP ports, 4 x Combo 10/100/1,000 Base-T Ethernet ports, 4 x 10 GE SFP+ ports |
| Power Supply | AC power supply | DC model, supporting RPS | DC model, supporting RPS |
| Forwarding Performance | 42 Mpps | 96 Mpps | 96 Mpps |
| Switching Capacity | 256 Gbit/s | 256 Gbit/s | 256 Gbit/s |
| Memory (RAM) | 256 MB | 256 MB | 256 MB |
| Flash | 200 MB | 200 MB | 200 MB |
| RPS | Not supported | Supported | Supported |
| РоЕ | Not supported | Not supported | Not supported |
| Maximum power consumption (100% throughput, full speed of fans) | 23 W | 42 W | 57 W |





Get more information

Do you have any question about the S5700-28P-LI-BAT (98010509)? Contact us now via info@hi-network.com.

Specification

| | S5700-28P-LI-BAT Specification | | |
|-------------------|---|--|--|
| Fixed Ports | 24 x 10/100/1,000 Base-T Ethernet ports, 4 x GE SFP ports | | |
| | 16K MAC address entries MAC address learning and aging | | |
| | Static, dynamic, and blackhole | | |
| MAC Address Table | MAC address entries | | |
| | Packet filtering based on source MAC addresses | | |
| | Interface-based MAC learning limiting | | |
| | 4K VLANs | | |
| | Guest VLAN and voice VLAN | | |
| MI AN Dector | GVRP | | |
| VLAN Features | MUX VLAN | | |
| | VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and interfaces | | |
| | 1:1 and N:1 VLAN mapping | | |
| Jumbo frame | 10K | | |
| | RRPP ring topology and RRPP multi-instance | | |
| | Smart Link tree topology and Smart Link multi-instance, providing millisecond-level protection switchover | | |
| Reliability | 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 | | |
| IP Routing | Static route, RIP, RIPng | | |
| | Neighbor Discovery (ND) | | |
| IPv6 Features | Path MTU (PMTU) | | |
| | IPv6 ping, IPv6 tracert, and IPv6 Telnet | | |
| | ACLs based on the source IPv6 address, destination IPv6 address, Layer 4 ports, and protocol type | | |
| | MLD v1/v2 snooping | | |
| 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 | | |
| | Interface-based multicast traffic statistics | | |
| | Rate limiting on packets sent and received by an interface | | |
| QoS/ACL | Packet redirection | | |



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Datasheet



| Interface-based traffic policing and two rate and three color CAR Eight queese on each interface Bight queese on each interface WRR, DRR, SP, WRR + SP, and DRR + SP quees excluding algorithms Re-making of the 802-1 priority and DSC Priority Packet filtering at Layer 2 to Layer 4, filtering out invalid frames based on the source MAC address, destination P Address, TCPUDP prior number, protocol type, and VLAN ID Re-making of the 802-1 priority and DSC Priority Ret initiaties, interface-based traffic shaping on interfaces Ret limiting in each quees and traffic shaping on interfaces Ret limiting in each quees and traffic shaping on interfaces Point isolation, port security, and sticky MAC Security Blackhole MAC address entries Limit on the number of learned MAC address retries Point isolation, port security, and sticky MAC ACA Sili V2-0 Hyperiest Transfer Protocol Secure (HTTPS) Cliphting Protection Sili V2-0 Signer Vinal Fabric (SVF) Sili V2-0 Configurations | | |
|--|----------------------------|---|
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| Re-marking of the 802.1p priority and DSCP priority Packer filtering at Layer 2 to Layer 4, filtoring out invalid frames based on the source MAC address, destination MAC address, source IP address, destination IP address, TCPUIDP port number, protocol type, and VLAN ID Rate limiting in each queue and traffic shipping on interfaces III control of the source MAC address, ICPUIDP port number, protocol type, and VLAN ID Rate limiting in each queue and traffic shipping on interfaces IIII control of the source address, IIII control of the source MAC address, IIII control of the source MAC address, IIII control of the source address, IIII control of the source address, IIII control of the source address, IIIII control of the source address at IIIII control of the source address, IIIII control of the source address at IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | | Eight queues on each interface |
| 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 Hierarchical user management and password protection DoS attack deferms, ARP attack deferms, and ICMP attack defermse Binding of the IP address, MAC address, interface number, and VLAN ID Port isolation, port security, and sticky MAC MFF Blackbole MAC address entries Security Blackbole MAC address entries Limit on the number of learned MAC addresses IEEE S02.1x 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 Blackbole MAC address entries Super Virtual Fabric (SVF) 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 NMN Remote configuration and maintenance using Telnet SNMP v1/v2cv3 RMON Sight and web-based NMS HTTPS </td <td></td> <td>WRR, DRR, SP, WRR + SP, and DRR + SP queue scheduling algorithms</td> | | WRR, DRR, SP, WRR + SP, and DRR + SP queue scheduling algorithms |
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| SSH V2.0 Hypertext Transfer Protocol Secure (HTTPS) CPU defense Blacklist and whitelist Access Security DHCP relay, DHCP server, DHCP snooping, and DHCP security Lightning Protection Service interface: 6 kV Numper 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 Virtual Cable Test (VCT) Remote configuration and maintenance using Telnet SNMP v1/v2cv3 RMON HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | 802.1x authentication and limit on the number of users on an interface |
| Management and Maintenance Hypertext Transfer Protocol Secure (HTTPS) CPU defense Blacklist and whitelist Access Security DHCP relay, DHCP server, DHCP snooping, and DHCP security Lightning Protection Service interface: 6 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 Virtual Cable Test (VCT) Remote configuration and maintenance using Telnet SNMP v1/v2c/v3 RMON HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | AAA authentication, RADIUS authentication, HWTACACS+ authentication, and NAC |
| CPU defense Blacklist and whitelist Access Security DHCP relay, DHCP server, DHCP snooping, and DHCP security Lightning Protection Service interface: 6 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 Super Virtual Fabric (SVF) Virtual Cable Test (VCT) Remote configuration and maintenance using Telnet SNMP v1/v2c/v3 RMON eSight and web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | SSH V2.0 |
| Blacklist and whitelist Access Security DHCP relay, DHCP server, DHCP snooping, and DHCP security Lightning Protection Service interface: 6 kV Age with the service interface: 6 kV Automatically loading the system software package and patches of clients One-click and automatic delivery of service configurations Super Virtual Fabric (SVF) Automatically loading the system software package and patches of clients One-click and automatic delivery of service configurations Supports independent running client Supports independent running client Remote configuration and maintenance using Telnet SNMP v1/v2c/v3 RMON RMON HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | Hypertext Transfer Protocol Secure (HTTPS) |
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| Lightning Protection Service interface: 6 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 Virtual Fabric (SVF) Virtual Cable Test (VCT) Remote configuration and maintenance using Telnet SNMP v1/v2c/v3 RMON Management and Maintenance eSight and web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | Blacklist and whitelist |
| 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 Virtual Cable Test (VCT) Remote configuration and maintenance using Telnet SNMP v1/v2c/v3 RMON HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | Access Security | DHCP relay, DHCP server, DHCP snooping, and DHCP security |
| Super Virtual Fabric (SVF) Automatically loading the system software package and patches of clients One-click and automatic delivery of service configurations Supports independent running client Supports independent running client Virtual Cable Test (VCT) Remote configuration and maintenance using Telnet SNMP v1/v2c/v3 RMON Management and Maintenance eSight and web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | Lightning Protection | Service interface: 6 kV |
| Super Virtual Fabric (SVF) configurations Supports independent running client Virtual Cable Test (VCT) Remote configuration and maintenance using Telnet SNMP v1/v2c/v3 RMON RMON Management and Maintenance eSight and web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | Working as an SVF client that is plug-and-play with zero configuration |
| configurations Supports independent running client Virtual Cable Test (VCT) Remote configuration and maintenance using Telnet SNMP v1/v2c/v3 RMON Management and Maintenance eSight and web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | Automatically loading the system software package and patches of clients One-click and automatic delivery of service |
| Virtual Cable Test (VCT) Remote configuration and maintenance using Telnet SNMP v1/v2c/v3 RMON Management and Maintenance eSight and web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | Super Virtual Fabric (SVF) | configurations |
| Remote configuration and maintenance using Telnet SNMP v1/v2c/v3 RMON Management and Maintenance eSight and web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | Supports independent running client |
| SNMP v1/v2c/v3 RMON Management and Maintenance eSight and web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | Virtual Cable Test (VCT) |
| SNMP v1/v2c/v3 RMON Management and Maintenance eSight and web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | Remote configuration and maintenance using Telnet |
| Management and Maintenance RMON Management and Maintenance eSight and web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | SNMP v1/v2c/v3 |
| Management and Maintenance eSight and web-based NMS HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | | |
| HTTPS LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | Management and Maintenance | |
| LLDP/LLDP-MED System logs and multi-level alarms 802.3az EEE | Management and Mantenance | |
| System logs and multi-level alarms 802.3az EEE | | |
| 802.3az EEE | | |
| | | |
| Supports VBST (Compatible with PVST/PVST+/RPVST) | | |
| | Interoperability | |
| | | |
| Supports VCMP (Similar to VTP) | | Supports VCMP (Similar to VTP) |
| Operating Environment | Operating Environment | Long-term operating temperature: 0°C to 45°C |
| Relative humidity: 5% to 95% (non-condensing) | * C | Relative humidity: 5% to 95% (non-condensing) |
| AC: | | AC: |
| Rated voltage range: 100V to 240V, 50 Hz/60 Hz, Maximum voltage range: 90V to 264V, 47 Hz/63 Hz | | Rated voltage range: 100V to 240V, 50 Hz/60 Hz, Maximum voltage range: 90V to 264V, 47 Hz/63 Hz |
| Input Voltage DC: | Input Voltage | DC: |
| Rated voltage range: -48V to -60V, Maximum voltage range: -36V to -72V | | Rated voltage range: -48V to -60V, Maximum voltage range: -36V to -72V |
| Note: Models supporting PoE do not use DC power supplies. | | Note: Models supporting PoE do not use DC power supplies. |



S5700-28P-LI-BAT (98010509) Datasheet



| Power Socket Position | rear power sockets |
|------------------------|---|
| Battery | One slot for lead-acid battery charger module (supported by battery LAN switches) |
| Dimensions (W x D x H) | 442 mm x 310 mm x 43.6 mm |
| Power Consumption | < 23W |

Want to Buy



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