Quidway® S5300 Switches

HUAWEI TECHNOLOGIES CO., LTD.

HUAWEI

Product Overview

Quidway® S5300 gigabit switches (S5300 for short) are next-generation Ethernet gigabit switches developed by Huawei to meet the requirements for high-bandwidth access and Ethernet multi-service convergence, providing powerful Ethernet functions for customers. Utilizing next-generation high-performance hardware and Huawei Versatile Routing Platform (VRP) software, the S5300 features large capacity and high-density gigabit ports, and provides 10 Gbit/s uplinks for customers. The S5300 can meet the requirements of multiple scenarios such as service convergence in campus networks and enterprise networks, gigabit access to IDC, and the gigabit desktop access to the enterprise network.

The S5300 is a case-shaped device with a 1 U high chassis, provided in a limited version (LI), a standard version (SI), an enhanced version (EI), and an advanced version (HI). LI provides various Layer-2 functions while SI supports Layer-2 functions and basic Layer-3 functions. EI supports all routing protocols and features. In addition to the functions of EI, HI supports some advanced functions such as MPLS and hardware OAM.

Product Appearance

S5306TP-LI

- Provides four 10/100/1000Base-T ports and two gigabit Combo ports.
- Supports AC power supplies.

S5324TP-SI

- Provides twenty 10/100/1000Base-T ports and four gigabit Combo ports.
- Two models: one supports AC power supplies and the other supports DC power supplies. It supports RPS 12 V power redundancy and USB ports.

S5324TP-PWR-SI

- Provides twenty 10/100/1000Base-T ports and four gigabit Combo ports.
- Supports dual pluggable power supplies, AC power supplies, PoE supplies, and USB ports.

S5348TP-SI

- Provides forty-four 10/100/1000Base-T ports and four gigabit Combo ports.
- Two models: one supports AC power supplies and the other supports DC power supplies. It supports 12 V RPS power redundancy and USB ports.

S5348TP-PWR-SI

- Provides forty-four 10/100/1000Base-T ports and four gigabit Combo ports.
- Supports AC power supplies, PoE power supplies, and USB ports.

S5328C-SI

- Provides twenty 10/100/1000Base-T ports and four gigabit Combo ports, and supports two 10GE XFP subcards, four 1000Base-X SFP subcards, two 10GE SFP+ subcards, and four 10GE SFP+ subcards.
- Supports dual pluggable power supplies and USB ports.

S5328C-PWR-SI

- Provides twenty 10/100/1000Base-T ports and four gigabit Combo ports, and supports two 10GE XFP subcards, four 1000Base-X SFP subcards, two 10GE SFP+ subcards, and four 10GE SFP+ subcards.
- Supports dual pluggable power supplies, AC power supplies, PoE power supplies, and USB ports.

S5352C-SI

- Provides forty-eight 10/100/1000Base-T ports, and supports two 10GE XFP subcards, four 1000Base-X SFP subcards, two 10GE SFP+ subcards, and four 10GE SFP+ subcards.
- Supports dual pluggable power supplies and USB ports.

S5352C-PWR-SI

- Provides forty-eight 10/100/1000Base-T ports, and supports two 10GE XFP subcards, four 1000Base-X SFP subcards, two 10GE SFP+ subcards, and four 10GE SFP+ subcards.
- Supports dual pluggable power supplies, AC power supplies, PoE power supplies, and USB ports.

S5328C-EI

- Provides twenty-four 10/100/1000Base-T ports, and supports two 10GE XFP subcards, four 1000Base-X SFP subcards, two 10GE SFP+ subcards, and four 10GE SFP+ subcards.
- Supports dual pluggable power supplies.

S5328C-PWR-EI

- Provides twenty-four 10/100/1000Base-T ports, and supports two 10GE XFP subcards, four 1000Base-X SFP subcards, two 10GE SFP+ subcards, and four 10GE SFP+ subcards.
- Supports pluggable dual power supplies, AC power supplies, and PoE power supplies.

S5328C-EI-24S

- Provides twenty 10/100/1000Base-T ports, four gigabit Combo ports, and supports two 10GE XFP subcards, four 1000Base-X SFP subcards, two 10GE SFP+ subcards, and four 10GE SFP+ subcards.
- Supports dual pluggable power supplies.

5352C-EI

- Provides forty-eight 10/100/1000Base-T ports, and supports two 10GE XFP subcards, four 1000Base-X SFP subcards, two 10GE SFP+ subcards, and four 10GE SFP+ subcards.
- Supports dual pluggable power supplies.

S5352C-PWR-EI

- Provides forty-eight 10/100/1000Base-T ports, and supports two 10GE XFP subcards, four 1000Base-X SFP subcards, and two 10GE SFP+ subcards.
- Supports pluggable dual power supplies, AC power supplies, and PoE power supplies.

S5328C-HI

- Provides twenty-four 10/100/1000Base-T ports, and supports four 1000Base-X SFP subcards, two 10GE SFP+ subcards, and four 10GE SFP+ subcards.
- Supports dual pluggable power supplies.

S5328C-HI-24S

- Provides twenty-four 100/1000Base-X ports, and supports four 1000Base-X SFP subcards, two 10GE SFP+ subcards, and four 10GE SFP+ subcards.
- Supports dual pluggable power supplies.

Product Features

Good Expansibility

- The S5300 switches support Intelligent Stacking (iStack) and plug-and-play. Multiple S5300s start to construct a virtual switch automatically after being connected by stacking cables.
- Compared with a single device, iStack features powerful expansibility, reliability, and performance. When customers need to expand the device or replace a single faulty device, they can add new devices without stopping services. Compared with chassis switches, the performance and port density of iStack are not restricted by the hardware structure. Multiple stacked devices can be logically considered as a single device, which simplifies the network management and configuration.

Powerful Service Support

- The S5300 supports enhanced selective QinQ to add outer VLAN tags to packets without occupying ACL resources, which meets requirements for multi-service provisioning.
- The S5300 supports IGMP v1/v2/v3, IGMP snooping, IGMP filter, IGMP fast leave, and IGMP proxy. It also supports line-speed cross-VLAN multicast replication, multicast load balancing in an E-Trunk, and controllable multicast. These multicast features provide high-quality video services for users.
- The S5300 supports multi-VPN-instance CE (MCE) to isolate users of different VPNs on a device, ensuring user data security and reducing investments of customers.
- The S5300HI switches are cost-effective case-shaped MPLS switches. They support basic MPLS and VLL functions and can be used as high-quality access devices to provide leased line services for enterprises. The S5300HI can help customers to construct an MPLS edge network.
- The S5300 series have multiple models that support PoE and comply with the IEEE 802.3af and 802.3at (PoE+) standard. By using this function, the S5300 can supply power over the Ethernet to the connected standard PDs such as IP Phones, WLAN APs, and Bluetooth APs. Each port can provide up to 30 W of power. This reduces the power cable layout and management cost for terminal devices. The S5300 can also be configured to provide power for PDs at specified time as required.

High Reliability

- The S5300 supports dual power supplies for backup and can use an AC power supply and a DC power supply at the same time. Users can select a single power supply or dual power supplies to improve device reliability. The switch provides three built-in fans to improve operating stability and has a long MTBF.
- Enhancing STP, RSTP, and MSTP, the S5300 supports MSTP multi-process which greatly increases the number of subrings. It supports enhanced Ethernet technologies such as Smart Link and RRPP to implement millisecond-level protective link switchover, improving network reliability. In addition, the S5300 supports multi-instance for Smart Link and RRPP to implement load balancing among links, further improving bandwidth usage.
- The S5300 supports Enhanced Trunk (E-Trunk). When a CE is dual homed to a VPLS, VLL, or PWE3 network, E-Trunk

can be configured to protect the links between the CE and PEs and implement protective switchover between PEs. The E-Trunk technology can implement link aggregation across devices to upgrade the link reliability to device level.

- The S5300 supports the Smart Ethernet Protection (SEP) protocol, a ring network protocol applied to the link layer of an Ethernet network. SEP is applicable to open ring networks and can be deployed independently from the upper-layer aggregation devices to provide millisecond-level switchover without interrupting services. Huawei devices have implemented Ethernet link management by using SEP. SEP features simplicity, high reliability, high switchover performance, convenient maintenance, and flexible topology, enabling customers to manage and deploy networks conveniently.
- The S5300 supports VRRP to keep the communication continuity and reliability, ensuring a stable network. Multiple equal-cost routes can be configured on the S5300 to implement route redundancy. When the active uplink route is faulty, traffic is automatically switched to a backup route. This feature implements multi-level backup for uplink routes.

Security and QoS

- The S5300 provides various security protection measures. It can defend against Denial of Service (DoS) attacks, attacks to networks, and attacks to users. DoS attacks 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, and DoS attacks by changing the CHADDR field of packets.
- The S5300 listens to the MAC/IP address, address lease, VLAN ID, and port number about a DHCP user by establishing and maintaining a DHCP snooping binding table. In this way, IP addresses and access ports of DHCP users can be tracked. The S5300 directly discards invalid packets that do not match binding entries, such as ARP spoofing packets and packets with bogus IP addresses, to prevent hackers from initiating man-in-the-middle attacks by using ARP packets. The trusted port feature of DHCP snooping is used to ensure the validity of the DHCP server.
- The S5300 supports strict ARP learning to prevent ARP spoofing attackers from exhausting ARP entries so that authorized users can connect to the Internet. It also supports IP source check to prevent DoS attacks caused by MAC address spoofing, IP address spoofing, and MAC/IP address spoofing. The URPF function provided by the S5300 can check packet transmission paths to authenticate the packets received, which can protect the network against the spread of source address spoofing attacks.
- The S5300 supports centralized MAC address authentication and 802.1x authentication. User information such as the user account, IP address, MAC address, VLAN ID, access port number, and flag indicating whether antivirus software is installed on the client can be bound statically or dynamically, and user policies (VLAN, QoS, and ACL) can be delivered dynamically.
- The S5300 can limit the number of source MAC addresses learned on a port to prevent attackers from exhausting

MAC address entries by using bogus source MAC addresses. In this way, MAC addresses of authorized users can be learned and flooding is prevented.

- The S5300 can implement complex traffic classification based on information such as the five-tuple, IP priority, ToS, DSCP, IP protocol type, ICMP type, TCP source port number, VLAN ID, Ethernet frame protocol type, and CoS. The S5300 supports inbound and outbound ACLs. The S5300 supports 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, which ensures the quality of voice, video, and data services.

Easy Deployment and Maintenance

- The S5300 supports automatic configuration, plug-and-play, deployment from USB devices, and batch remote upgrade. Deployment, upgrade, and service provisioning of the S5300 can be completed at a time, which simplifies subsequent management and maintenance. Therefore, maintenance costs are greatly reduced. The S5300 supports diversified management and maintenance modes such as SNMP v1/v2/v3, CLI, Web network management, Telnet, and HGMP, which make device management more flexible. In addition, the S5300 supports NTP, SSH v2, TACACS+, RMON, multiple log hosts, port-based traffic statistics, and NQA, which help to better deploy and reconstruct networks.
- The S5300 supports the GARP Registration Protocol (GVRP). The GVRP technology implements dynamic configuration of VLANs. In a complex networking environment, GVRP can simplify VLAN configuration and reduce network communication faults caused by incorrect configuration of VLANs. This reduces the manual configurations of network administrators and ensures correct VLAN configurations.
- The S5300 supports MUX VLAN. MUX VLAN is used to isolate Layer-2 traffic between ports on a VLAN. All subordinate VLANs can communicate with the principal VLAN but cannot communicate with each other. MUX VLAN is usually used on enterprise intranets. With this function, a user port can communicate with a server port but cannot communicate with other user ports. MUX VLAN prevents communication between network devices connected to some interfaces or interface groups but allows these devices to communicate with the default gateway. This function ensures resource sharing and secure communication in an enterprise. The S5300 supports BFD and provides millisecond-level detection for protocols such as OSPF, IS-IS, VRRP, and PIM to improve network reliability. Complying with IEEE 802.3ah and 802.1ag, the S5300 supports point-to-point Ethernet fault management to detect faults on user links. Ethernet OAM improves the network management and maintenance capabilities on the Ethernet and ensures a stable network.
- The S5300HI and the S5306 provide 3.3-millisecond hardware-based Ethernet OAM function and Y.1731, which can quickly detect and locate faults. By using the Ethernet OAM technology and switchover technologies, the S5300 can provide millisecond-level protective switchover for networks.

Various IPv6 Features

- The S5300 supports the IPv4/IPv6 protocol stack and can be upgraded smoothly. The S5300 hardware supports both IPv4 and IPv6, IPv6 over IPv4 tunnels (including manual tunnels, 6-to-4 tunnels, and ISATAP tunnels), and

Layer-3 line-speed forwarding. Therefore, the S5300 can be deployed on IPv4 networks, IPv6 networks, and networks that run IPv4 and IPv6 simultaneously. This makes the networking flexible and meets the requirements for the network transition from IPv4 to IPv6.

- The S5300 supports various IPv6 routing protocols including RIPng and OSPFv3. It uses the IPv6 Neighbor Discovery Protocol (NDP) to manage packets exchanged between neighboring nodes. The S5300 supports the Path MTU Discovery (PMTU) mechanism. That is, it selects a proper MTU on the path from the source to the destination to optimize network resource usage and obtain the maximum throughput.

Product Specifications

Item	S5306TP-LI	S5300-SI	S5300-EI	S53HI
Fixed port	S5306TP-LI: four 10/100/1000Base-T ports and two gigabit Combo ports S5324TP-SI/S5324TP-PWR-SI/S5328C-SI/S5328C-PWR-SI: twenty 10/100/1000Base-T ports and four 100/1000Base-X Combo ports S5348TP-SI/S5348TP-PWR-SI: forty-four 10/100/1000Base-T ports and four Combo ports (10/100/1000Base-T or 100/1000Base-X) S5352C-SI/S5352C-PWR-SI: forty-eight 10/100/1000Base-T ports S5328C-EI/S5328C-PWR-EI: twenty-four 10/100/1000Base-T ports S5328C-EI-24S: twenty 100/1000Base-X ports and four Combo ports (10/100/1000Base-T or 100/1000Base-X) S5352C-EI/S5352C-PWR-EI: forty-eight 10/100/1000Base-T ports S5328C-HI: twenty-four 10/100/1000Base-T ports S5328C-HI-24S: twenty-four 100/1000Base-X ports			
Extended slot	The S5306 has no extended slot. The 5300TP provides a stacking extended slot. The S5300C provides two extended slots. One supports subcards and the other supports stacking cards. The S5300HI provides an extended slot that supports subcards.			
Forwarding performance	S5306: 9 Mpps S5324TP-SI/S5324TP-PWR-SI: 36 Mpps S5348TP-SI/S5348TP-PWR-SI: 72 Mpps S5328C-SI/S5328C-PWR-SI/ S5328C-EI/S5328C-PWR-EI/ S5328C-EI-24S/S53HI: 96 Mpps S5352C-SI/S5352C-PWR-SI/ S5352C-EI/S5352C-PWR-EI: 132 Mpps			
Port switching capacity	S5306: 12 Gbit/s S5324TP-SI/S5324TP-PWR-SI: 48 Gbit/s S5348TP-SI/S5348TP-PWR-SI: 96 Gbit/s S5328C-SI/S5328C-PWR-SI/ S5328C-EI/S5328C-PWR-EI/ S5328C-EI-24S/S53HI: 128 Gbit/s S5352C-SI/S5352C-PWR-SI/ S5352C-EI/S5352C-PWR-EI: 176 Gbit/s			
Backplane switching capacity	256 Gbit/s			
MAC address table	LI/SI: 16 K; EI/HI: 32 K Supports learning and aging of MAC addresses. Supports static, dynamic, and blackhole MAC address entries. Supports packet filtering based on source MAC addresses.			

Item	S5306TP-LI	S5300-SI	S5300-EI	S53HI
VLAN features	Supports up to 4,096 VLANs. Supports guest VLANs and voice VLANs. Supports VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and ports. Supports 1:1 and N:1 VLAN switching. Supports basic QinQ and selective QinQ.			
MPLS features	Not supported.	Not supported.	Not supported.	Supports MPLS. Supports the MPLS VLL.
IPv4 routing	Static routing	Supports static routing, RIP v1, RIP v2, ECMP, and URPF.	Supports OSPF, IS-IS, BGP, VRRP, policy-based routing, routing protocol, and other IPv4 routing features supported by the S5300SI.	Same as the S5300EI.
IPv6 routing	Static routing	Supports RIPng, manual tunnels, 6-to-4 tunnels, and ISTAP tunnels.	Supports OSPFv3 and other IPv6 routing features supported by the S5300SI.	Same as the S5300EI.
IPv6 features	Supports Neighbor Discovery (ND). Supports PMTU. Supports IPv6 Ping, IPv6 Tracert, and IPv6 Telnet. Supports 6-to-4 tunnels, ISATAP tunnels, and manually configured tunnels. Supports ACLs based on the source IPv6 address, destination IPv6 address, Layer-4 port, or protocol type. Supports MLD v1/v2 snooping.			
Multicast	Supports static Layer-2 multicast MAC addresses, MAC address-based multicast forwarding, and other multicast features supported by the S5300SI.	Supports IGMP snooping, IGMP fast leave, multicast VLAN, IGMP proxy, controllable multicast, and port-based multicast traffic statistics.	Supports IGMP v1/v2/v3, PIM-SM, PIM-DM, PIM-SSM, MSDP, and other multicast features supported by the S5300SI.	Same as the S5300EI.
QoS/ACL	Supports rate limit on packets sent and received by a port. Supports packet redirection. Supports port-based traffic policing and two-rate three-color CAR. Supports eight queues on each port. Supports multiple queue scheduling algorithms including WRR, DRR, SP, WRR+SP, and DRR+SP. Supports WRED (supported by the S5306 and the S5300HI). Supports re-marking of the 802.1p priority and DSCP priority. Supports packet filtering based on Layer 2 to Layer 4 information, filtering out invalid frames based on the source MAC address, destination MAC address, source IP address, destination IP address, port number, protocol, and VLAN ID. Supports queue-based rate limit and traffic shaping on ports.			

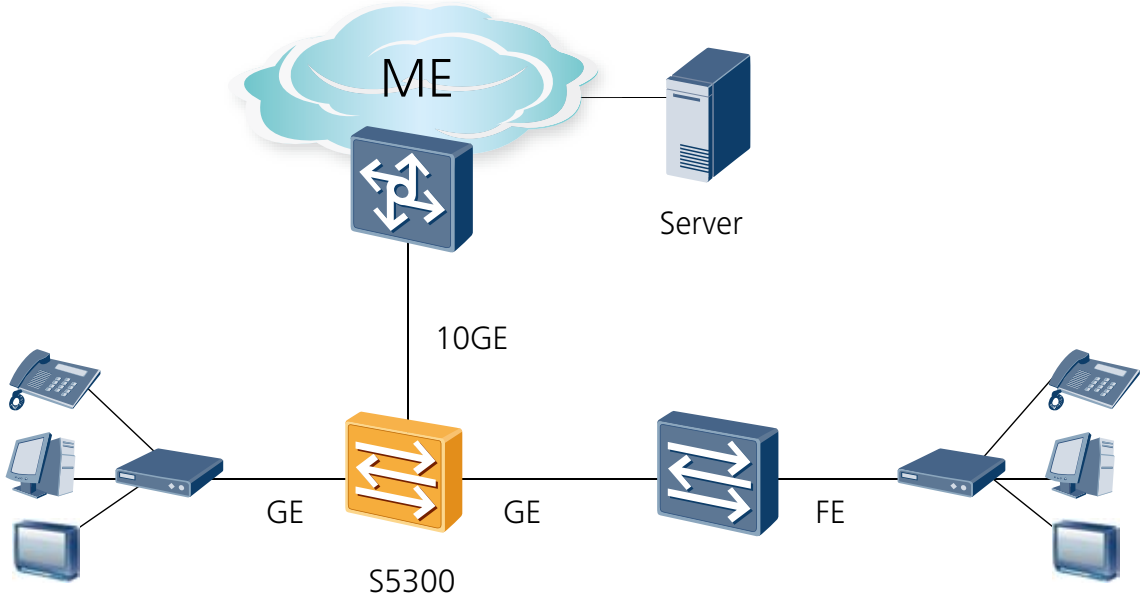
Item	S5306TP-LI	S5300-SI	S5300-EI	S53HI
Reliability	Supports STP, RSTP, and MSTP. Supports BPDU protection, root protection, and loopback protection. Supports the RRPP ring topology and RRPP multi-instance. Supports the Smart Link tree topology and Smart Link multi-instance to implement millisecond-level protective switchover. Supports SEP. EI/HI series support BFD for OSPF, BFD for IS-IS, BFD for VRRP, and BFD for PIM. Supports E-Trunk.			
Security	Supports hierarchical user management and password protection. Supports DoS attack defense, ARP attack defense, and ICMP attack defense. Supports binding of the IP address, MAC address, port number, and VLAN ID. Supports port isolation, port security, and sticky MAC. Supports blackhole MAC addresses. Supports limit on the number of MAC addresses to be learned. Supports IEEE 802.1X authentication and the limit on the maximum number of users on a port. Supports multiple authentication methods including AAA, RADIUS, HWTACACS+, and NAC. Supports SSH v2. Supports CPU protection. Supports blacklisting and whitelisting.			
OAM	Hardware implementation EFM OAM CFM OAM Y.1731 performance test supports hardware-level delay and jitter detection.	Software implementation	Software implementation	Hardware implementation EFM OAM CFM OAM Y.1731 performance test supports hardware-level delay and jitter detection.
Management and maintenance	Supports intelligent stacking (The S5300HI and the S5306 do not support this function). Supports MAC Forced Forwarding (MFF). Supports Virtual Cable Test (VCT). Supports Ethernet OAM (IEEE 802.3ah and 802.1ag). Supports local port mirroring, Remote Switched Port Analyzer (RSPAN), and packet forwarding on an observing port. Supports remote configuration and maintenance by using Telnet. Supports SNMP v1/v2/v3. Supports RMON. Supports the Network Management System (NMS) and Web management. Supports HGMP. Supports system logs and multi-level alarms. Supports Dying gasp power-off alarm (the S5306 only). Supports GVRP. Supports MUX VLAN. Supports the Hypertext Transfer Protocol Secure (HTTPS). Supports 802.3az EEE (the S5300HI and the S5306 only).			
Operating environment	Operating temperature: 0° C to 50° C (long term); -5° C to 55° C (short term); relative humidity: 10% to 90% (non-condensing)			

Item	S5306TP-LI	S5300-SI	S5300-EI	S53HI
Input voltage	AC: Rated voltage: 100 V to 240 V, 50/60 Hz Maximum voltage: 90 V to 264 V, 50/60 Hz DC: Rated voltage range: –48 V to –60 V Maximum voltage: –36 V to –72 V Note: Models supporting PoE do not use DC power supplies.			
Dimensions: width x depth x height	S5306: 250 mm x 180 mm x 43.6 mm S5324TP-SI/S5324TP-PWR-SI/S53HI: 442 mm x 220 mm x 43.6 mm Others: 442 mm x 420 mm x 43.6 mm			
Power consumption	S5306: < 40 W	S5324TP-SI: < 40 W S5324TP-PWR-SI: < 455 W S5348TP-SI: < 64 W S5348TP-PWR-SI: < 907 W S5328C-SI: < 56 W S5328C-PWR-SI: < 891 W S5352C-SI: < 78 W S5352C-PWR-SI: < 917 W	S5328C-EI: < 60 W S5328C-PWR-EI: < 472 W S5328C-EI-24S: < 63 W S5352C-EI: < 88 W S5352C-PWR-EI: < 930 W	S53HI: < 93 W

Applications

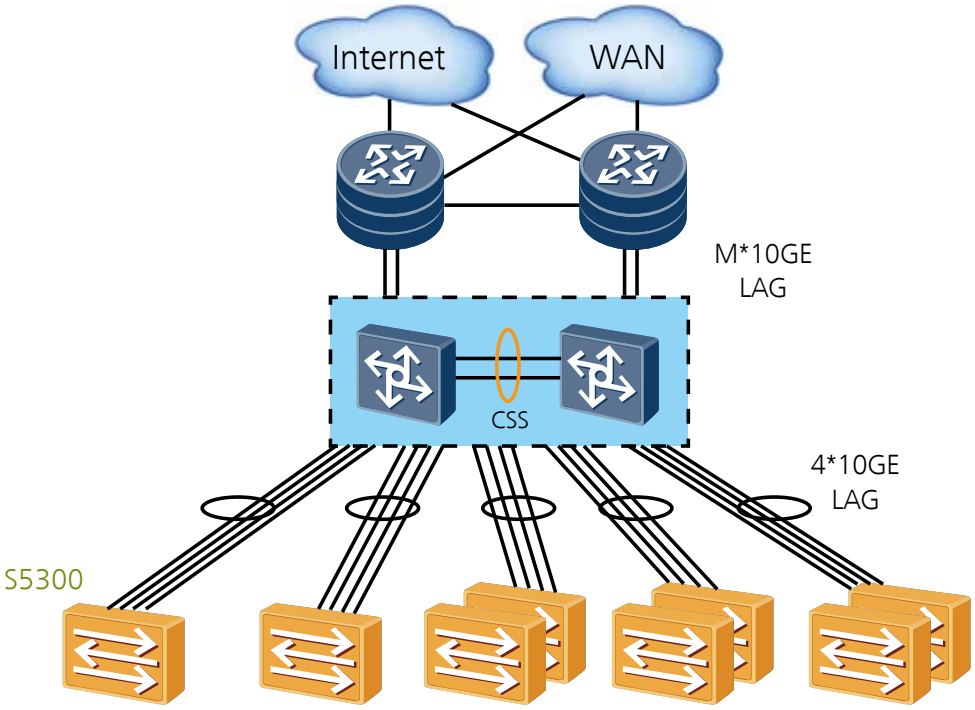
Application on Large-Scale Enterprise Networks

The S5300HI functions as the access device and aggregation device on large-scale enterprise networks and improves network reliability by link binding, dual-homing, and ringing.



Application in Data Centers

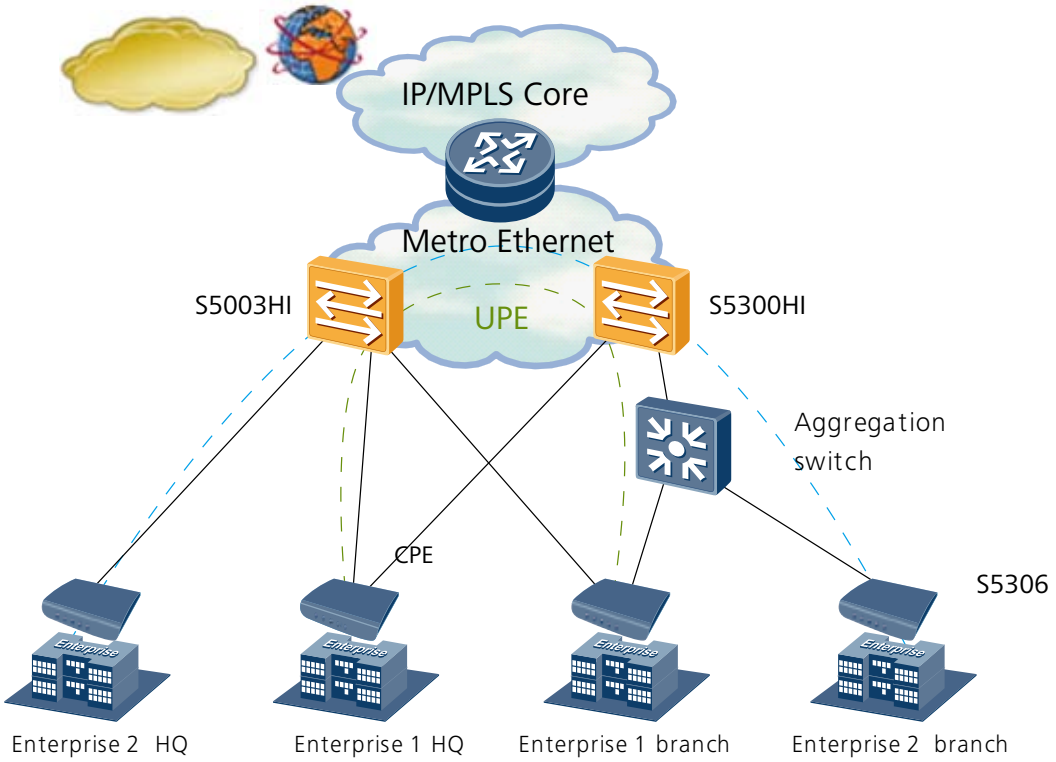
The S5300 can be used in a data center to access the gigabit server and connect to upper-layer devices by link aggregation. If multiple servers are available, you can use the stacking technology to improve network reliability.



CPE and UPE

The S5306TP-LI can be used as a CPE switch and the S5300HI can be used as a UPE switch.

The S5306 and the S5300HI can provide high-quality leased line for enterprises by using powerful hardware OAM.



Order Information

Product Description
S5306TP-LI-AC
S5328-HI
5S5324-HI-24S
S5324TP-SI-AC (input voltage: 220 V AC)
S5324TP-SI-DC (input voltage: –48 V DC)
S5328C-SI (supports two pluggable power supplies, with the input voltage of 220 V AC or –48 V DC)
S5328C-EI (supports two pluggable power supplies, with the input voltage of 220 V AC or –48 V DC)
S5328C-EI-24S (supports two pluggable power supplies, with the input voltage of 220 V AC or –48 V DC)
S5348TP-SI-AC (input voltage: 220 V AC)
S5348TP-SI-DC (input voltage: –48 V DC)
S5352C-SI (supports two pluggable power supplies, with the input voltage of 220 V AC or –48 V DC)
S5352C-EI (supports two pluggable power supplies, with the input voltage of 220 V AC or –48 V DC)
S5348TP-PWR-SI (supports two pluggable AC power supplies and PoE power supplies, with the input voltage of 220 V)
S5348TP-PWR-SI (supports two pluggable AC power supplies and PoE supplies, with the input voltage of 220 V)
S5328C-PWR-SI (supports two pluggable AC power supplies and PoE supplies, with the input voltage of 220 V)
S5328C-PWR-EI (supports two pluggable AC power supplies and PoE supplies, with the input voltage of 220 V)
S5352C-PWR-SI (supports two pluggable AC power supplies and PoE supplies, with the input voltage of 220 V)
S5352C-PWR-EI (supports two pluggable AC power supplies and PoE supplies, with the input voltage of 220 V)
4 x GE SFP subcards
2 x 10GE XFP subcards
2 x 10GE SFP + subcards
4 x 10GE SFP + subcards
Stack cables
DC power supply
AC power supply
250 W PoE power supply unit
500 W PoE power supply unit
10GE-SFP Optical Module
Optical module, SFP+, 10 Gbit/s, multimode modules (850 nm, 0.3 km, LC)
Optical module, SPF+, 10 Gbit/s, single-mode modules (1310 nm, 10 km, LC)
Optical module, SFP+, 10 Gbit/s, single-mode modules (1310 nm, 10 km, LC)
10GE-XFP Optical Module
Optical module, XFP, 10 Gbit/s, multimode modules (850 nm, 0.3 km, LC)
Optical module, XFP,10 Gbit/s, single-mode modules (1310 nm, 10 km, LC)
Optical module, XFP, 10 Gbit/s, single-mode modules (1550 nm, 40 km, LC)

Product Description
Optical module, XFP, 10 Gbit/s, single-mode modules (1550 nm, 80 km, LC)
GE SFP Optical Module
Electrical module, SFP, GE, electrical port modules (100 m, RJ45)
Optical module, ESFP, GE, multimode modules (850 nm, 0.5 km, LC)
Optical module, SFP, GE, single-mode modules (1310 nm, 10 km, LC)
Optical module, eSFP, GE, single-mode modules (1310 nm, 40 km, LC)
Optical module, eSFP, GE, single-mode modules (1550 nm, 40 km, LC)
Optical module, eSFP, GE, single-mode modules (1550 nm, 80 km, LC)
Optical module, ESFP, GE, single-mode modules (1550 nm, 100 km, LC)
FE/STM-1-SFP Optical Module
Optical module, SFP, 100 M/155 M, multimode modules (1310 nm, 2 km, LC)
Optical module, ESFP, 100 M/155 M, single-mode modules (1310 nm, 15 km, LC)
Optical module, eSFP, FE, single-mode modules (1310 nm, 40 km, LC)
Optical module, eSFP, FE, single-mode modules (1550 nm, 80 km, LC)
BIDI-SFP Optical Module
Optical module, SFP, GE, BIDI, single-mode modules (TX1490/RX1310, 10 km, LC)
Optical module, SFP, GE, BIDI, single-mode modules (TX1310/RX1490, 10 km, LC)
Optical module, SFP, GE, BIDI, single-mode modules (TX1310/RX1550, 15 km, LC)
Optical module, SFP, GE, BIDI, single-mode modules (TX1550/RX1310, 15 km, LC)
CWDM-SFP Optical Module
Optical transceiver, eSFP, 1571 nm, 10 Mbit/s to 2.67 Gbit/s, 0 dBm, 5 dBm, –28 dBm, LC, 80 km
Optical transceiver, eSFP, 1591 nm, 100 Mbit/s to 2.67 Gbit/s, 0 dBm, 5 dBm, –28 dBm, LC, 80 km
Optical transceiver, eSFP, 1551 nm, 100 Mbit/s to 2.67 Gbit/s, 0 dBm, 5 dBm, –28 dBm, LC, 80 km
Optical transceiver, eSFP, 1511 nm, 100 Mbit/s to 2.67 Gbit/s, 0 dBm, 5 dBm, –28 dBm, LC, 80 km
Optical transceiver, eSFP, 1611 nm, 100 Mbit/s to 2.67 Gbit/s, 0 dBm, 5 dBm, –28 dBm, LC, 80 km
Optical transceiver, eSFP, 1491 nm, 100 Mbit/s to 2.67 Gbit/s, 0 dBm, 5 dBm, –28 dBm, LC, 80 km
Optical transceiver, eSFP, 1531 nm, 100 Mbit/s to 2.67 Gbit/s, 0 dBm, 5 dBm, –28 dBm, LC, 80 km
Optical transceiver, eSFP, 1471 nm, 100 Mbit/s to 2.67 Gbit/s, 0 dBm, 5 dBm, –28 dBm, LC, 80 km

For more information, visit www.huawei.com or contact the local sales office of Huawei.

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