

Huawei S6720-LI Series Switches Product Datasheet



S6720-LI Series Switches

Product Overview

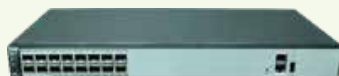
The S6720-LI series switches (S6720-LI) are next-generation simplified 10GE fixed switches and can be used as 10GE access switches on campus networks and data center networks.

The S6720-LI provides line-rate 10GE access ports and 40GE uplink ports. In addition, the S6720-LI delivers a wide variety of services, comprehensive security control policies, and various QoS features to help customers build scalable, reliable, manageable, and secure campus and data center networks.

Product Overview

Product Models

S6720-16X-LI-16S-AC
S6720S-16X-LI-16S-AC



- 16 x 10GE SFP+ ports
- Built-in AC power supply and redundant power supply (RPS)
- USB
- Packet forwarding rate: 240 Mpps
- Switching capacity: 1.28Tbps/12.8 Tbps

S6720-26Q-LI-24S-AC
S6720S-26Q-LI-24S-AC



- 24 x 10GE SFP+ ports, 2 x 40GE QSFP+ ports
- Built-in AC power supply and RPS
- USB
- Packet forwarding rate: 240 Mpps
- Switching capacity: 1.28Tbps/12.8 Tbps

S6720-32X-LI-32S-AC
S6720S-32X-LI-32S-AC



- 32 x 10GE SFP+ ports
- Built-in AC power supply and RPS
- USB
- Packet forwarding rate: 240 Mpps
- Switching capacity: 1.28Tbps/12.8 Tbps

Fan Modules

The S6720-LI has three built-in fan modules for forced air cooling. Air flows from the left side and front panel, and exhausts from the right side.



Power Supplies

The S6720-LI has a built-in power supply and does not support pluggable power supplies. It can connect to an RPS1800 power supply for power redundancy.

Product Features and Highlights

High-Density 10GE Access and 40GE Uplink

- To provide sufficient bandwidth for users, more and more servers use 10G network adapters. The S6720-LI has the highest density of 10GE ports and largest switching capacity among counterpart switches. Each S6720-LI provides up to 32 line-rate 10GE ports and two line-rate QSFP+ ports.
- Ports of the S6720-LI support GE access and 10GE access and can identify optical module types, maximizing the return on investment and allowing users to flexibly deploy services.

Comprehensive Security Control Policies

- The S6720-LI provides multiple security measures to defend against Denial of Service (DoS) attacks, as well as attacks against networks or users. DoS attacks include SYN flood, Land, Smurf, 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, and DHCP request flood attacks. DoS attacks that change the CHADDR field in DHCP packets are also attacks against users.
- The S6720-LI supports DHCP snooping, which generates user binding entries. DHCP snooping discards invalid packets that do not match any binding entries, such as ARP spoofing packets and IP spoofing packets. This prevents hackers from using ARP packets to initiate attacks on campus networks. DHCP snooping trusted ports can be specified to ensure that users connect only to the authorized DHCP server.
- The S6720-LI supports strict ARP learning. This feature prevents ARP spoofing attackers from exhausting ARP entries so that users can connect to the Internet normally. The S6720-LI supports IP source check to prevent DoS attacks caused by MAC address spoofing, IP address spoofing, and MAC/IP spoofing.
- The S6720-LI supports centralized MAC address authentication and 802.1X authentication. It authenticates users based on statically or dynamically bound user information such as the user name, IP address, MAC address, VLAN ID, port number, and flag indicating whether antivirus software is installed. VLANs, QoS policies, and ACLs can be applied to users dynamically.
- The S6720-LI can limit the number of MAC addresses learned on a port 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.

Comprehensive Reliability Mechanisms

- The S6720-LI supports MSTP multi-process that enhances the existing STP, RSTP, and MSTP implementation. This function increases the number of MSTIs supported on a network. It also supports enhanced Ethernet reliability technologies such as Smart Link and RRPP, which implement millisecond-level protection switchover and ensure network reliability. Smart Link and RRPP both support multi-instance to implement load balancing among links, improving bandwidth use efficiency.
- The S6720-LI supports enhanced trunk (E-trunk). A CE can be dual-homed to two PEs through Eth-Trunk links. This implements inter-device link aggregation and link load balancing, and greatly improves reliability of access devices.
- The S6720-LI supports the Smart Ethernet Protection (SEP) protocol, a ring network protocol applied to the link layer of an Ethernet network. SEP can be used on open ring networks and provides millisecond-level switchover to ensure nonstop services. SEP features simplicity, high reliability, fast switchover, easy maintenance, and flexible topology, facilitating network planning and management.
- The S6720-LI supports G.8032, also called Ethernet Ring Protection Switching (ERPS). ERPS is based on traditional Ethernet MAC and bridging functions. It uses the mature Ethernet OAM and Ring Automatic Protection Switching (Ring APS or R-APS) technologies to implement millisecond-level protection switchover on Ethernet. ERPS supports multiple services and provides flexible networking, reducing the OPEX and CAPEX.
- The S6720-LI supports VRRP. Two S6720-LIs can form a VRRP group to ensure nonstop and reliable communication. Multiple equal-cost routes to an upstream device can be configured on the S6720-LI to provide route redundancy. When an active route is unreachable, traffic is switched to a backup route.

Various QoS Control Mechanisms

- The S6720-LI implements complex traffic classification based on packet information such as the 5-tuple, IP preference, ToS, DSCP, IP protocol type, ICMP type, TCP source port, VLAN ID, Ethernet protocol type, and CoS. ACLs can be applied to inbound or outbound direction to filter packets. The S6720-LI supports a flow-based two-rate three-color CAR. Each port supports eight priority queues and multiple queue scheduling algorithms such as WRR, DRR, PQ, WRR+PQ, and DRR+PQ. All of these ensure the quality of voice, video, and data services.

High Scalability

- The S6720-LI supports intelligent stack (iStack) and virtualizes multiple switches into one logical switch. A port of the S6720-LI can be configured as a stack port using a command for flexible stack deployment. The distance between stacked switches is further increased when the switches are connected with optical fibers. Compared with a single device, iStack has advantages on scalability, reliability, performance, and overall architecture. A new switch can join a stack to increase the system capacity or replace a faulty member switch without interrupting services. Compared with stacking of modular switches, the iStack function can increase system capacity and port density with no restriction of the hardware architecture. Multiple devices in a stack can be considered as one logical device. These switches can be managed using a single IP address, which greatly reduces system expansion and O&M costs.

Convenient Management

- The S6720-LI supports automatic configuration, plug-and-play, deployment using a USB flash drive, and batch remote upgrade. These capabilities simplify device management and maintenance, and greatly reduce maintenance costs.
- The S6720-LI supports SNMPv1/v2/v3 and provides flexible methods for managing and maintaining devices, such as CLI and Web NMS. The NQA function helps users with network planning and upgrades. In addition, the S6720-LI supports NTP, SSH v2, HWTACACS, RMON, log hosts, and port-based traffic statistics.
- The S6720-LI supports GVRP, which dynamically distributes, registers, and propagates VLAN attributes to reduce the manual configuration workloads of network administrators and ensure correct VLAN configuration.
- The S6720-LI supports MUX VLAN that isolates Layer 2 traffic between ports in a VLAN. MUX VLAN defines principal VLANs and subordinate VLANs. Subordinate VLANs can communicate with the MUX VLAN but cannot communicate with each other. This function prevents communication between network devices connected to certain ports or port groups but allows the devices to communicate with the default gateway. MUX VLAN is usually used on an enterprise intranet to isolate user ports from each other but allow them to communicate with server ports.
- Complying with IEEE 802.3ah and 802.1ag, the S6720-LI supports point-to-point Ethernet fault management and can detect faults in the last mile of an Ethernet link to users. Ethernet OAM improves the Ethernet network management and maintenance capabilities and ensures a stable network.

Various IPv6 Features

- The S6720-LI supports various IPv6 routing protocols including RIPng and OSPFv3. It uses the IPv6 Neighbor Discovery Protocol (NDP) to manage packets exchanged between neighbors. It also provides the Path MTU Discovery (PMTU) mechanism to select a proper MTU on the path from the source to the destination, optimizing network resources and obtaining the maximum throughput.

Product Specifications

Item	S6720-16X-LI-16S-AC S6720S-16X-LI-16S-AC	S6720-26Q-LI-24S-AC S6720S-26Q-LI-24S-AC	S6720-32X-LI-32S-AC S6720S-32X-LI-32S-AC
Fixed ports	16 x 10GE SFP+ ports	24 x 10GE SFP+ ports, 2 x 40GE QSFP+ ports	32 x 10GE SFP+ ports
Extended slots	Not supported	Not supported	Not supported
MAC address table	32K MAC address learning and aging Static, dynamic, and blackhole MAC address entries Packet filtering based on source MAC addresses		
VLAN features	4K VLANs Guest VLAN and voice VLAN VLAN assignment based on MAC addresses, protocols, IP subnets, policies, and ports VLAN mapping Basic QinQ and selective QinQ		

Item	S6720-16X-LI-16S-AC S6720S-16X-LI-16S-AC	S6720-26Q-LI-24S-AC S6720S-26Q-LI-24S-AC	S6720-32X-LI-32S-AC S6720S-32X-LI-32S-AC
IPv4 routing	Static routing, RIP, and OSPF VRRP Policy-based routing Routing policies		
IPv6 routing	Static routing RIPng OSPFv3		
IPv6 features	Neighbor Discovery (ND) and ND snooping IPv6 Ping VRRP6 DHCPv6 snooping, DHCPv6 server, and DHCPv6 relay		
Multicast	IGMPv1/v2/v3 snooping Fast leave IGMP snooping proxy Multicast Listener Discovery (MLD) snooping Port-based multicast traffic suppression Inter-VLAN multicast replication Controllable multicast		
QoS/ACL	Traffic classification based on ACLs Traffic classification based on outer 802.1p fields, outer VLAN IDs, source MAC addresses, and Ethernet types Access control after traffic classification Traffic policing based on traffic classifiers Re-marking based on traffic classifiers Class-based packet queuing Associating traffic classifiers with traffic behaviors Rate limiting on inbound and outbound ports Traffic shaping based on ports and queues Tail drop Priority Queuing (PQ) Deficit Round Robin (DRR) PQ + DRR scheduling Weighted Round Robin (WRR) PQ + WRR scheduling		
Reliability	STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s) BPDU protection, root protection, and loop protection RRPP ring topology and RRPP multi-instance Smart Link tree topology and Smart Link multi-instance, providing millisecond-level protection switchover Smart Ethernet Protection (SEP) G.8032 Ethernet Ring Protection Switching (ERPS) Enhanced trunk (E-trunk)		

Item	S6720-16X-LI-16S-AC S6720S-16X-LI-16S-AC	S6720-26Q-LI-24S-AC S6720S-26Q-LI-24S-AC	S6720-32X-LI-32S-AC S6720S-32X-LI-32S-AC
Security features	Defense against DoS, ARP, and ICMP attacks Binding of the IP address, MAC address, port number, and VLAN ID of a user Port isolation, port security, and sticky MAC MAC-Forced Forwarding (MACFF) Limit on the number of learned MAC addresses IEEE 802.1X authentication and the limit on the number of users on a port AAA authentication, RADIUS authentication, HWTACACS authentication, and NAC CPU defense		
Super Virtual Fabric (SVF)	SVF Client		
Management and maintenance	iStack (using service ports as stack ports) Virtual Cable Test (VCT) Ethernet OAM (IEEE 802.3ah and IEEE 802.1ag) SNMPv1/v2/v3 RMON Web-based network management system and relevant features System logs and multi-level alarms GVRP MUX VLAN sFlow SSH2 HTTPS		
Operating environment	Working temperature: 0 m–1800 m, 0° C–45° C; 1800 m–5000 m, the highest operating temperature reduces by 1° C every time the altitude increases by 220 m. Relative humidity: 5% to 95% (noncondensing)		
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		
Dimensions (width x depth x height)	420 x 220 x 43.6	420 x 220 x 43.6	420 x 220 x 43.6
Typical power consumption	45.2W	67.1W	71.8W

Hardware Specifications

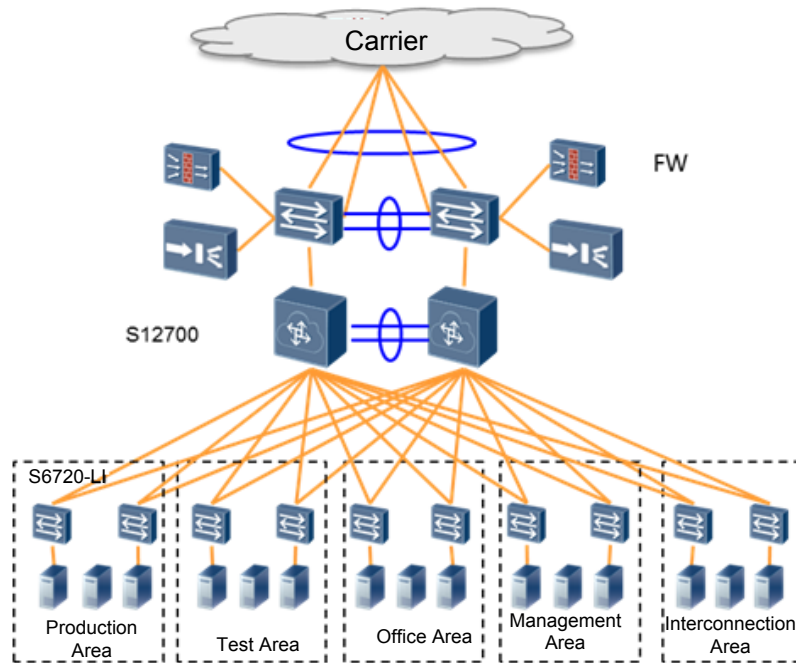
Item		Specification
Cabinet		Standard 19-inch cabinet/rack, such as N66E and N68E
Memory (RAM)		1 GB
Flash memory		240 MB
Switching capacity		1.28Tbps/12.8Tbps
Forwarding performance		S6720-16X-LI-16S-AC: 240 Mpps S6720S-16X-LI-16S-AC: 240 Mpps S6720-26Q-LI-24S-AC: 252 Mpps S6720S-26Q-LI-24S-AC: 252 Mpps S6720-32X-LI-32S-AC: 252 Mpps S6720S-32X-LI-32S-AC: 252 Mpps
Mean Time Between Failures (MTBF), years		S6720-16X-LI-16S-AC: 39.2 S6720S-16X-LI-16S-AC: 39.2 S6720-26Q-LI-24S-AC: 39.2 S6720S-26Q-LI-24S-AC: 39.2 S6720-32X-LI-32S-AC: 42.8 S6720S-32X-LI-32S-AC: 42.8
Mean Time To Repair (MTTR), hours		2
Availability		> 0.99999
Surge protection	Service port protection	NA
	Power supply port protection	AC model: ± 6 kV in differential mode and ± 6 kV in common mode
Dimensions (W x D x H)		S6720-16X-LI-16S-AC: 442.0 mm \times 220.0mm \times 43.6mm S6720S-16X-LI-16S-AC: 442.0mm \times 220.0mm \times 43.6mm S6720-26Q-LI-24S-AC: 442.0mm \times 220.0mm \times 43.6mm S6720S-26Q-LI-24S-AC: 442.0mm \times 220.0mm \times 43.6mm S6720-32X-LI-32S-AC: 442.0mm \times 220.0mm \times 43.6mm S6720S-32X-LI-32S-AC: 442.0mm \times 220.0mm \times 43.6mm
Stack port		Any 10GE SFP+ ports (a maximum of 16 physical ports) Any 40GE QSFP+ ports (a maximum of 2 physical ports)
RPS		Supported
PoE		Not supported
AC input voltage	Rated voltage range	100 V AC to 240 V AC; 50/60 Hz
	Maximum voltage range	90 V AC to 264 V AC; 47 Hz to 63 Hz

Item		Specification
Maximum power consumption (100% throughput, full speed of fans)		S6720-16X-LI-16S-AC: 45.2W S6720S-16X-LI-16S-AC: 45.2W S6720-26Q-LI-24S-AC: 67.1W S6720S-26Q-LI-24S-AC: 67.1W S6720-32X-LI-32S-AC: 71.8W S6720S-32X-LI-32S-AC: 71.8W
Temperature	Operating temperature	0° C to 45° C (0 m-1800 m altitude) Note: When the altitude is between 1800 m and 5000 m, the operating temperature reduces by 1° C every time the altitude increases by 220 m.
	Storage temperature	-40° C to +70° C
Noise under normal temperature (sound power)		S6720-16X-LI-16S-AC: 46.5dBA S6720S-16X-LI-16S-AC: 46.5dBA S6720-26Q-LI-24S-AC: 46.5dBA S6720S-26Q-LI-24S-AC: 46.5dBA S6720-32X-LI-32S-AC: 46.4dBA S6720S-32X-LI-32S-AC: 46.4dBA
Noise under normal temperature (sound voltage)		S6720-16X-LI-16S-AC: 34.6dBA S6720S-16X-LI-16S-AC: 34.6dBA S6720-26Q-LI-24S-AC: 34.6dBA S6720S-26Q-LI-24S-AC: 34.6dBA S6720-32X-LI-32S-AC: 34.6dBA S6720S-32X-LI-32S-AC: 34.6dBA
Relative humidity		5%RH to 95%RH, noncondensing
Operating altitude		AC power equipped: 0 m to 5000 m

- 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 line-rate 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.

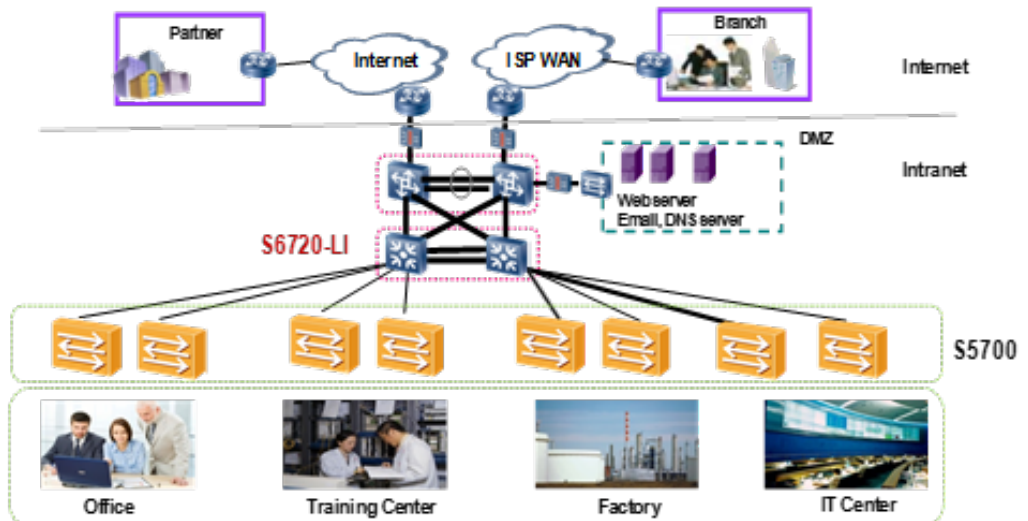
Data Center Networks

As shown in the following figure, the S12700 agile switches function as core switches in a data center and use firewall and load balancer cards to ensure security and perform load balancing. The S6720-LI function as access switches and provide high-density 10GE ports to connect to 10G servers.



Campus Networks

The S6720-LI series switches can be used as access or aggregation switches on small- and medium-sized campus networks and provide high-density line-rate 10GE ports, rich service features, and comprehensive security mechanism. All of those make the S6720-LI cost effective on campus networks.



Product Accessories

Optical Modules and Fibers

The S6720-LI supports the following GE, 10GE, and 40GE optical modules:

- GE: 100 m electrical, 500 m optical multi-mode, 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+
- 40GE: 150/400 m QSFP+ optical multi-mode, 1.4/2/10/40 km optical single-mode

Optical fibers fall into single-mode and multi-mode 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 port 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.

Stack Cables

The S6720-LI 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 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.
- QSFP+ high-speed cable
- The QSFP+ high-speed cable also integrates an optical module and cable. The QSFP+ high-speed cables are available in QSFP-40G-CU1M, QSFP-40G-CU3M, and QSFP-40G-CU5M.

Ordering Information

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+
QSFP+ high-speed	QSFP-40G-CU1M	Cable length: 1 m; connector: QSFP+
	QSFP-40G-CU3M	Cable length: 3 m; connector: QSFP+
	QSFP-40G-CU5M	Cable length: 5 m; connector: QSFP+

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

- 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

MIB and Standards Compliance

Supported 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-ACL-MIB HUAWEI-ALARM-MIB HUAWEI-ALARM-RELIABILITY-MIB HUAWEI-BASE-TRAP-MIB HUAWEI-BRAS-RADIUS-MIB HUAWEI-BRAS-SRVCFG-EAP-MIB HUAWEI-BRAS-SRVCFG-STATICUSER-MIB HUAWEI-CBQOS-MIB HUAWEI-CDP-COMPLIANCE-MIB HUAWEI-CONFIG-MAN-MIB HUAWEI-CPU-MIB HUAWEI-DAD-TRAP-MIB HUAWEI-DC-MIB HUAWEI-DATASYNC-MIB HUAWEI-DEVICE-MIB HUAWEI-DHCPR-MIB HUAWEI-DHCPS-MIB HUAWEI-DHCP-SNOOPING-MIB HUAWEI-DIE-MIB HUAWEI-DNS-MIB HUAWEI-DLDP-MIB HUAWEI-ELMI-MIB HUAWEI-ERPS-MIB HUAWEI-ERRORDOWN-MIB HUAWEI-ENERGYMNGT-MIB HUAWEI-EASY-OPERATION-MIB HUAWEI-ENTITY-EXTENT-MIB HUAWEI-ENTITY-TRAP-MIB HUAWEI-ETHARP-MIB HUAWEI-ETHOAM-MIB HUAWEI-FLASH-MAN-MIB HUAWEI-FWD-RES-TRAP-MIB HUAWEI-GARP-APP-MIB HUAWEI-GTSM-MIB HUAWEI-HGMP-MIB HUAWEI-HWTACACS-MIB HUAWEI-IF-EXT-MIB HUAWEI-INFOCENTER-MIB HUAWEI-IPPOOL-MIB HUAWEI-IPV6-MIB HUAWEI-ISOLATE-MIB HUAWEI-L2IF-MIB HUAWEI-L2MAM-MIB HUAWEI-L2VLAN-MIB HUAWEI_LDT-MIB HUAWEI-LLDP-MIB HUAWEI-MAC-AUTHEN-MIB HUAWEI-MEMORY-MIB

Category	MIB
IETF	HUAWEI-MFF-MIB HUAWEI-MFLP-MIB HUAWEI-MSTP-MIB HUAWEI-MULTICAST-MIB HUAWEI-NAP-MIB HUAWEI-NTPV3-MIB HUAWEI-PERFORMANCE-MIB HUAWEI-PORT-MIB HUAWEI-PORTAL-MIB HUAWEI-QINQ-MIB HUAWEI-RIPv2-EXT-MIB HUAWEI-RM-EXT-MIB HUAWEI-RRPP-MIB HUAWEI-SECURITY-MIB HUAWEI-SEP-MIB HUAWEI-SNMP-EXT-MIB HUAWEI-SSH-MIB HUAWEI-STACK-MIB HUAWEI-SWITCH-L2MAM-EXT-MIB HUAWEI-SWITCH-SRV-TRAP-MIB HUAWEI-SYS-MAN-MIB HUAWEI-TCP-MIB HUAWEI-TFTPC-MIB HUAWEI-TRNG-MIB HUAWEI-XQOS-MIB

Safety and Regulatory Compliance

Category	MIB
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)

Category	MIB
IETF	<p>RFC 1901 Introduction to Community-based SNMPv2</p> <p>RFC 1902-1907 SNMP v2</p> <p>RFC 1981 Path MTU Discovery for IP version 6</p> <p>RFC 2131 Dynamic Host Configuration Protocol (DHCP)</p> <p>RFC 2328 OSPF Version 2</p> <p>RFC 2453 RIP Version 2</p> <p>RFC 2460 Internet Protocol, Version 6 Specification (IPv6)</p> <p>RFC 2461 Neighbor Discovery for IP Version 6 (IPv6)</p> <p>RFC 2462 IPv6 Stateless Address Auto configuration</p> <p>RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6)</p> <p>RFC 2474 Differentiated Services Field (DS Field)</p> <p>RFC 2740 OSPF for IPv6 (OSPFv3)</p> <p>RFC 2863 The Interfaces Group MIB</p> <p>RFC 2597 Assured Forwarding PHB Group</p> <p>RFC 2598 An Expedited Forwarding PHB</p> <p>RFC 2571 SNMP Management Frameworks</p> <p>RFC 2865 Remote Authentication Dial In User Service (RADIUS)</p> <p>RFC 3046 DHCP Option82</p> <p>RFC 3376 Internet Group Management Protocol, Version 3 (IGMPv3)</p> <p>RFC 3513 IP Version 6 Addressing Architecture</p> <p>RFC 3579 RADIUS Support For EAP</p> <p>RFC 4271 A Border Gateway Protocol 4 (BGP-4)</p> <p>RFC 4760 Multiprotocol Extensions for BGP-4</p> <p>draft-grant-tacacs-02 TACACS+</p>
IEEE	<p>IEEE 802.1D Media Access Control (MAC) Bridges</p> <p>IEEE 802.1p Virtual Bridged Local Area Networks</p> <p>IEEE 802.1Q Virtual Bridged Local Area Networks</p> <p>IEEE 802.1ad Provider Bridges</p> <p>IEEE 802.2 Logical Link Control</p> <p>IEEE Std 802.3 CSMA/CD</p> <p>IEEE Std 802.3ab 1000BASE-T specification</p> <p>IEEE Std 802.3ad Aggregation of Multiple Link Segments</p> <p>IEEE Std 802.3ae 10GE WEN/LAN Standard</p> <p>IEEE Std 802.3x Full Duplex and flow control</p> <p>IEEE Std 802.3z Gigabit Ethernet Standard</p> <p>IEEE802.1ax/IEEE802.3ad Link Aggregation</p> <p>IEEE 802.3ah Ethernet in the First Mile.</p> <p>IEEE 802.1ag Connectivity Fault Management</p> <p>IEEE 802.1ab Link Layer Discovery Protocol</p> <p>IEEE 802.1D Spanning Tree Protocol</p> <p>IEEE 802.1w Rapid Spanning Tree Protocol</p> <p>IEEE 802.1s Multiple Spanning Tree Protocol</p> <p>IEEE802.1x Port based network access control protocol</p> <p>IEEE802.3af DTE Power via MIDI</p> <p>IEEE802.3at DTE Power via the MDI Enhancements</p>
ITU	<p>ITU SG13 Y.17ethoam</p> <p>ITU SG13 QoS control Ethernet-Based IP Access</p> <p>ITU-T Y.1731 ETH OAM performance monitor</p>

Category	MIB
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

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.

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HUAWEI TECHNOLOGIES CO.,LTD.
Huawei Industrial Base
Bantian Longgang
Shenzhen 518129,P.R.China
Tel: +86 755 28780808

www.huawei.com