S1700 Series Enterprise Switches

Huawei S1700 series switches are next-generation energy-saving Ethernet access switches designed for small and medium-sized enterprises, Internet cafés, hotels, and schools.

Introduction

The S1700 series switches are easy to install and maintain and come with diverse service features, helping customers build secure, reliable, high-performance networks.

The S1700 series consists of unmanaged switches, web-managed switches, and fully-managed switches:

- Unmanaged switches:

Include S1700-16G, S1700-24-AC, S1700-24GR, S1724G-AC, S1700-52R-2T2P-AC, S1700-28GR-4X, and S1700-52GR-4X

- Web-managed switches:

Include S1720-10GW-2P, S1720-10GW-PWR-2P, S1720-28GWR-4P, S1720-28GWR-4X, S1720-28GWR-PWR-4P, S1720-28GWR-PWR-4TP, S1720-28GWR-PWR-4X, S1720-52GWR-4P, S1720-52GWR-4X, S1720-52GWR-PWR-4P, S1720-52GWR-PWR-4X, S1720X-16XWR, and S1720X-32XWR

- Fully-managed switches:

Include S1720-10GW-2P-E, S1720-10GW-PWR-2P-E, S1720-28GWR-4P-E, S1720-28GWR-4X-E, S1720-28GWR-PWR-4P-E, S1720-28GWR-PWR-4TP-E, S1720-28GWR-PWR-4X-E, S1720-52GWR-4P-E, S1720-52GWR-4X-E, S1720-52GWR-PWR-4P-E, S1720-52GWR-PWR-4X-E, S1720X-16XWR-E, and S1720X-32XWR-E

Product Overview

Models and Appearances

The following models are available in the S1700 series.

Unmanaged switches
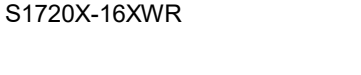
Product Appearance	Description
S1700-16G	• 16 Ethernet 10/100/1,000 ports • AC power supply • Forwarding performance: 24 Mpps • Switching Capacity: 32 Gbit/s
S1700-24-AC	• 24 Ethernet 10/100 ports • AC power supply • Forwarding performance: 3.6 Mpps

Product Appearance	Description
	• Switching Capacity: 4.8 Gbit/s
S1700-24GR	• 24 Ethernet 10/100/1,000 ports • AC power supply • Forwarding performance: 36 Mpps • Switching Capacity: 48 Gbit/s
S1724G-AC	• 24 Ethernet 10/100/1,000 ports • AC power supply • Forwarding performance: 36 Mpps • Switching Capacity: 48 Gbit/s
S1700-52R-2T2P-AC	• Downlink: 48 Ethernet 10/100 ports • Uplink: 2 Ethernet 10/100/1,000 ports, 2 Gig SFP ports • AC power supply • Forwarding performance: 13.2 Mpps • Switching Capacity: 17.6 Gbit/s
S1700-28GR-4X	• Downlink: 24 Ethernet 10/100/1,000 ports • Uplink: 4 10 Gig SFP+ • AC power supply • Forwarding performance: 96 Mpps • Switching Capacity: 168 Gbit/s
S1700-52GR-4X	• Downlink: 48 Ethernet 10/100/1,000 ports • Uplink: 4 10 Gig SFP+ • AC power supply • Forwarding performance: 132 Mpps • Switching Capacity: 336 Gbit/s

Web-managed switches

Product Appearance	Description
S1720-10GW-2P	• Downlink: 8 Ethernet 10/100/1,000 ports • Uplink: 2 Gig SFP ports • AC power supply • Forwarding performance: 15 Mpps • Switching Capacity: 68 Gbit/s
S1720-10GW-PWR-2P	• Downlink: 8 Ethernet 10/100/1,000 ports • Uplink: 2 Gig SFP ports • PoE+ • AC power supply • Forwarding performance: 15 Mpps • Switching Capacity: 68 Gbit/s
S1720-28GWR-4P	• Downlink: 24 Ethernet 10/100/1,000 ports • Uplink: 4 Gig SFP ports • AC power supply • Forwarding performance: 42 Mpps

Product Appearance	Description
	• Switching Capacity: 68 Gbit/s
S1720-28GWR-4X	• Downlink: 24 Ethernet 10/100/1,000 ports • Uplink: 4 10 Gig SFP+ • AC power supply • Forwarding performance: 96 Mpps • Switching Capacity: 168 Gbit/s
S1720-28GWR-PWR-4P	• Downlink: 24 Ethernet 10/100/1,000 ports • Uplink: 4 Gig SFP ports • PoE+ • AC power supply • Forwarding performance: 42 Mpps • Switching Capacity: 68 Gbit/s
S1720-28GWR-PWR-4TP	• Downlink: 24 Ethernet 10/100/1,000 ports • Uplink: 2 Gig SFP and 2 dual-purpose 10/100/1,000 or SFP • PoE+ • AC power supply • Forwarding performance: 42 Mpps • Switching Capacity: 68 Gbit/s
S1720-28GWR-PWR-4X	• Downlink: 24 Ethernet 10/100/1,000 ports • Uplink: 4 10 Gig SFP+ • Support PoE+ • AC power supply • Forwarding performance: 96 Mpps • Switching Capacity: 168 Gbit/s
S1720-52GWR-4P	• Downlink: 48 Ethernet 10/100/1,000 ports • Uplink: 4 Gig SFP ports • AC power supply • Forwarding performance: 78 Mpps • Switching Capacity: 336 Gbit/s
S1720-52GWR-4X	• Downlink: 48 Ethernet 10/100/1,000 ports • Uplink: 4 10 Gig SFP+ • AC power supply • Forwarding performance: 132 Mpps • Switching Capacity: 336 Gbit/s
S1720-52GWR-PWR-4P	• Downlink: 48 Ethernet 10/100/1,000 ports • Uplink: 4 Gig SFP ports • PoE+ • AC power supply • Forwarding performance: 78 Mpps • Switching Capacity: 336 Gbit/s
	• Downlink: 48 Ethernet 10/100/1,000 ports • Uplink: 4 10 Gig SFP+

Product Appearance	Description
S1720-52GWR-PWR-4X	• PoE+ • AC power supply • Forwarding performance: 132 Mpps • Switching Capacity: 336 Gbit/s
S1720X-16XWR	• 16 10 Gig SFP+ • AC power supply • Forwarding performance: 240 Mpps • Switching Capacity: 680 Gbit/s
S1720X-32XWR	• 32 10 Gig SFP+ • AC power supply • Forwarding performance: 252 Mpps • Switching Capacity: 680 Gbit/s

Fully-managed switches

Product Appearance	Description
S1720-10GW-2P-E	• Uplink: 8 Ethernet 10/100/1,000 ports • Downlink: 2 Gig SFP ports • AC power supply • Forwarding performance: 15 Mpps • Switching Capacity: 68 Gbit/s
S1720-10GW-PWR-2P-E	• Downlink: 8 Ethernet 10/100/1,000 ports • Uplink: 2 Gig SFP ports • PoE+ • AC power supply • Forwarding performance: 15 Mpps • Switching Capacity: 68 Gbit/s
S1720-28GWR-4P-E	• Downlink: 24 Ethernet 10/100/1,000 ports • Uplink: 4 Gig SFP ports • AC power supply • Forwarding performance: 42 Mpps • Switching Capacity: 68 Gbit/s
S1720-28GWR-4X-E	• Downlink: 24 Ethernet 10/100/1,000 ports • Uplink: 4 10 Gig SFP+ • AC power supply • Forwarding performance: 96 Mpps • Switching Capacity: 168 Gbit/s
S1720-28GWR-PWR-4P-E	• Downlink: 24 Ethernet 10/100/1,000 ports • Uplink: 4 Gig SFP ports • PoE+ • AC power supply • Forwarding performance: 42 Mpps • Switching Capacity: 68 Gbit/s

Product Appearance	Description
S1720-28GWR-PWR-4TP-E	• Downlink: 24 Ethernet 10/100/1,000 ports • Uplink: 4 Gig SFP ports, 2 of which are dual-purpose 10/100/1,000 Base-t or SFP ports • PoE+ • AC power supply • Forwarding performance: 42 Mpps • Switching Capacity: 68 Gbit/s
S1720-28GWR-PWR-4X-E	• Downlink: 24 Ethernet 10/100/1,000 ports • Uplink: 4 10 Gig SFP+ • Support PoE+ • AC power supply • Forwarding performance: 96 Mpps • Switching Capacity: 168 Gbit/s
S1720-52GWR-4P-E	• Downlink: 48 Ethernet 10/100/1,000 ports • Uplink: 4 Gig SFP ports • AC power supply • Forwarding performance: 78 Mpps • Switching Capacity: 336 Gbit/s
S1720-52GWR-4X-E	• Downlink: 48 Ethernet 10/100/1,000 ports • Uplink: 4 10 Gig SFP+ • AC power supply • Forwarding performance: 132 Mpps • Switching Capacity: 336 Gbit/s
S1720-52GWR-PWR-4P-E	• Downlink: 48 Ethernet 10/100/1,000 ports • Uplink: 4 Gig SFP ports • PoE+ • AC power supply • Forwarding performance: 78 Mpps • Switching Capacity: 336 Gbit/s
S1720-52GWR-PWR-4X-E	• Downlink: 48 Ethernet 10/100/1,000 ports • Uplink: 4 10 Gig SFP+ • PoE+ • AC power supply • Forwarding performance: 132 Mpps • Switching Capacity: 336 Gbit/s
S1720X-16XWR-E	• 16 10 Gig SFP+ • AC power supply • Forwarding performance: 240 Mpps • Switching Capacity: 680 Gbit/s
S1720X-32XWR-E	• 32 10 Gig SFP+ • AC power supply • Forwarding performance: 252 Mpps

Product Appearance	Description
	• Switching Capacity: 680 Gbit/s

Power Supply

The models have a built-in AC power supply, which provides power for the entire switch.

Product Features and Highlights

Innovative Energy-Saving Design

• The S1700 supports Energy Efficient Ethernet (EEE), which enables the switch to enter a power-saving mode when traffic is light.

• The S1700 can adjust the power output for transmissions based on the cable length. It can also set any ports that are not transmitting traffic to sleep mode.

• The models that use a fan-free design reduce power consumption and noise.

Non-Blocking and High-Speed Forwarding

• All S1700 ports provide Layer 2 wire-speed forwarding capabilities to ensure non-blocking packet forwarding. S1700 models provide optical and electrical GE uplink ports, which facilitate user access and are cost-effective.

• The S1700, S1720 MAC address table supports up to 8k/16k of MAC addresses, making it easy to expand networks and deploy new services. The S1700 supports layer 3 static routing-forwarding which include IPv4 and IPv6 protocols.

Perpetual PoE

• The models that support PoE support the perpetual PoE technology to deliver uninterrupted PoE power supply. This capability ensures that PDs are not powered off during switch reboot, eliminating fault-triggered interruptions.

Convenient Management and Maintenance

• The S1700 is easy to manage and maintain, equipped with a one-key operation button on the front panel.

• Web-managed S1700 models come with a web network management system, making it easy to configure switches.

• Fully-managed S1700 models allow for the use of an Simple Network Management Protocol (SNMP)-based Network Management System (NMS) for centralized configuration and management.

• Web-managed S1720 models come with a web network management system, making it easy to configure switches.

• Fully-managed S1720 models can support Command Line Interface (CLI) configuration.

• The S1720 series web-managed and fully-managed switches support enhanced Media Delivery Index (eMDI). The S1720 functions as a monitoring node to periodically collect and report eMDI fault data to eSight, and then eSight quickly locates video service quality faults based on monitoring results of multiple nodes.

Intelligent O&M

• The S1720 series web-managed and fully-manged switches provide telemetry technology to collect device data in real time and send the data to Huawei campus network analyzer CampusInsight. The CampusInsight analyzes network data based on the intelligent fault identification algorithm, accurately displays the real-time network status, effectively demarcates and locates faults in a timely manner, and identifies network problems that affect user experience, accurately guaranteeing user experience.

• The S1720 series web-managed and fully-manged switches support Enhanced Media Delivery Index(eMDI). It functions as a monitoring node to periodically collect and report eMDI fault data to eSight, and then eSight quickly locates video service quality faults based on monitoring results of multiple nodes. The device can also report eMDI fault data to the campus network analyzer CampusInsight for intelligent diagnosis of video services.

Powerful Security Performance

• The S1700 provides a range of security features, including 802.1x, RADIUS, Portal and NAC. The S1700 also supports packet filtering based on MAC addresses or ports in order to defend against hackers and virus attacks.

Great Networking and Bandwidth Extensibility

- The S1700 provides LACP, STP, RSTP, and MSTP functions to implement link aggregation and backup. Fully-managed S1720 switches support up to 64 MSTP instances for flexible networking.

Product Specifications

Functions and Features

The following table describes the functions and features of Web managed switches and Web, SNMP managed switches.

Functions and features available on the Web managed switches and Web, SNMP managed switches

Function and Feature	Web-managed switch	Fully-managed switch
Security features	Packet filtering based on MAC addresses MAC address authentication (S1720 Series) Port-based 802.1x authentication RADIUS authentication Portal authentication (S1720 Series) Port isolation Storm suppression (S1720 Series) DHCP snooping (S1720 Series)	Hardware ACL Packet filtering based on MAC addresses MAC address authentication Port-based 802.1x authentication. RADIUS authentication Portal authentication Port isolation Storm suppression Attack defense, which prevents broadcast traffic, ARP attacks, ICMP attacks, TCP attacks, worm viruses, and DoS attacks DHCP snooping
VLAN	256 VLANs (S1720 Series: 4K) VLAN assignment based on access, trunk, and hybrid ports Management VLAN Voice VLAN	4 K VLANs VLAN assignment based on access, trunk, and hybrid ports Management VLAN Voice VLAN
QoS	PQ and WRR Four queues on each port (S1720 series: Eight) Queue scheduling based on 802.1p or DSCP priorities	PQ and WRR Eight queues on each port Queue scheduling based on 802.1p or DSCP priorities
STP	STP (IEEE 802.1d) RSTP (IEEE 802.1w) MSTP (IEEE 802.1s) (S1720 series)	STP (IEEE 802.1d) RSTP (IEEE 802.1w) MSTP (IEEE 802.1s)
Multicast	IGMP snooping and a maximum of 256 multicast groups 1K multicast groups (S1720 series) Fast leave (S1720 series)	IGMP snooping and a maximum of 256 multicast groups 1K multicast groups (S1720 series) Fast leave
Routing Feature	IPv4 and IPv6 static routing (S1720 series)	IPv4 and IPv6 static routing
Link Aggregation	12 Link Aggregation Groups (LAGs) with a maximum of eight ports in each LAG 64 link aggregation groups (S1720 series) Static LACP	12 LAGs with a maximum of eight ports in each LAG 64 link aggregation groups (S1720 series) Static LACP

Function and Feature	Web-managed switch	Fully-managed switch
Port Mirroring	Port-based bi-directional flow mirroring	Port-based bi-directional flow mirroring Configuring a trunk as a mirrored interface
Bandwidth Control	Rate limiting for incoming and outgoing packets, with a granularity of 64 kbit/s	Rate limiting for incoming and outgoing packets, with a granularity of 8 kbit/s
Broadcast Storm Suppression	Broadcast storm suppression based on the interface rate Alarm sending when the traffic rate reaches the upper limit	Broadcast storm suppression based on the interface rate Alarm sending when the traffic rate reaches the upper limit
Device Management	Web system network management DHCP client One-key restoration **NOTE** You can upgrade the web-managed S1720 model to the fully-managed model by purchasing a license.	SNMP Web system network management (HTTPS) DHCP client User password protection One-key restoration CLI configuration (S1720GFR, S1720GW-E, S1720GWR-E, and S1720X-XWR-E series)
Device Maintenance	System log Ping Virtual Cable Test (VCT) Link Layer Discovery Protocol (LLDP)	Remote Network Monitoring (RMON) System log Ping and traceroute Virtual Cable Test (VCT) Link Layer Discovery Protocol (LLDP)

Hardware Specifications

The following table lists the S1700 hardware specifications.

Item	Specification
Memory (RAM)	• Unmanaged switches: N/A • S1720-10GW-2P, S1720-10GW-PWR-2P, S1720-28GWR-4P, S1720-28GWR-4X, S1720-28GWR-PWR-4P, S1720-28GWR-PWR-4X, S1720-52GWR-4P, S1720-52GWR-4X, S1720-52GWR-PWR-4P, S1720-52GWR-PWR-4X, and S1720-28GWR-PWR-4TP: 512M • S1720-10GW-2P-E, S1720-10GW-PWR-2P-E, S1720-28GWR-4P-E, S1720-28GWR-4X-E, S1720-28GWR-PWR-4P-E, S1720-28GWR-PWR-4X-E, S1720-52GWR-4P-E, S1720-52GWR-4X-E, S1720-52GWR-PWR-4P-E, S1720-52GWR-PWR-4X-E, and S1720-28GWR-PWR-4TP-E: 512M • S1720X-16XWR, S1720X-32XWR, S1720X-16XWR-E, and S1720X-32XWR-E: 1G
Flash Memory	• Unmanaged switches: N/A • S1720-10GW-2P, S1720-10GW-PWR-2P, S1720-28GWR-4P, S1720-28GWR-4X, S1720-28GWR-PWR-4P, S1720-28GWR-PWR-4X, S1720-52GWR-4P, S1720-52GWR-4X, S1720-52GWR-PWR-4P, S1720-52GWR-PWR-4X, S1720-28GWR-PWR-4TP, S1720X-16XWR, and S1720X-32XWR: 240M • S1720-10GW-2P-E, S1720-10GW-PWR-2P-E, S1720-28GWR-4P-E, S1720-28GWR-4X-E, S1720-28GWR-PWR-4P-E, S1720-28GWR-PWR-4X-E, S1720-52GWR-4P-E, S1720-52GWR-4X-E, S1720-52GWR-PWR-4P-E, S1720-52GWR-PWR-4X-E, S1720-28GWR-PWR-4TP-E, S1720X-16XWR-E, and S1720X-32XWR-E: 240M
Switching Capacity	• S1700-24-AC: 4.8 Gbit/s • S1700-16G: 32 Gbit/s • S1700-52R-2T2P-AC: 17.6 Gbit/s

Item	Specification
	• S1700-24GR: 48 Gbit/s
	• S1724G-AC: 48 Gbit/s
	• S1700-28GR-4X: 168 Gbit/s
	• S1700-52GR-4X: 336 Gbit/s
	• S1720-10GW-2P, S1720-10GW-2P-E: 68 Gbit/s
	• S1720-10GW-PWR-2P, S1720-10GW-PWR-2P-E: 68 Gbit/s
	• S1720-28GWR-4P, S1720-28GWR-4P-E: 68 Gbit/s
	• S1720-28GWR-4X, S1720-28GWR-4X-E: 168 Gbit/s
	• S1720-28GWR-PWR-4P, S1720-28GWR-PWR-4P-E: 68 Gbit/s
	• S1720-28GWR-PWR-4TP, S1720-28GWR-PWR-4TP-E: 68 Gbit/s
	• S1720-28GWR-PWR-4X, S1720-28GWR-PWR-4X-E: 168 Gbit/s
	• S1720-52GWR-4P, S1720-52GWR-4P-E: 336 Gbit/s
	• S1720-52GWR-4X, S1720-52GWR-4X-E: 336 Gbit/s
	• S1720-52GWR-PWR-4P, S1720-52GWR-PWR-4P-E: 336 Gbit/s
	• S1720-52GWR-PWR-4X, S1720-52GWR-PWR-4X-E: 336 Gbit/s
	• S1720X-16XWR, S1720X-16XWR-E: 680 Gbit/s
	• S1720X-32XWR, S1720X-32XWR-E: 680 Gbit/s
Forwarding Performance	• S1700-24-AC: 3.6 Mpps
	• S1700-16G: 24 Mpps
	• S1700-52R-2T2P-AC: 13.2 Mpps
	• S1700-24GR: 36 Mpps
	• S1724G-AC: 36 Mpps
	• S1700-28GR-4X: 96 Mpps
	• S1700-52GR-4X: 132 Mpps
	• S1720-10GW-2P, S1720-10GW-2P-E: 15 Mpps
	• S1720-10GW-PWR-2P, S1720-10GW-PWR-2P-E: 15 Mpps
	• S1720-28GWR-4P, S1720-28GWR-4P-E: 42 Mpps
	• S1720-28GWR-4X, S1720-28GWR-4X-E: 96 Mpps
	• S1720-28GWR-PWR-4P, S1720-28GWR-PWR-4P-E: 42 Mpps
	• S1720-28GWR-PWR-4TP, S1720-28GWR-PWR-4TP-E: 42 Mpps
	• S1720-28GWR-PWR-4X, S1720-28GWR-PWR-4X-E: 96 Mpps
	• S1720-52GWR-4P, S1720-52GWR-4P-E: 78 Mpps
	• S1720-52GWR-4X, S1720-52GWR-4X-E: 132 Mpps
	• S1720-52GWR-PWR-4P, S1720-52GWR-PWR-4P-E: 78 Mpps
	• S1720-52GWR-PWR-4X, S1720-52GWR-PWR-4X-E: 132 Mpps
	• S1720X-16XWR, S1720X-16XWR-E: 240 Mbps
	• S1720X-32XWR, S1720X-32XWR-E: 252 Mbps
Mean-Time-Between-Failures (MTBF), years	• S1700-24-AC: 24.65
	• S1700-52R-2T2P-AC: 24.65
	• S1700-24GR: 22.33
	• S1724G-AC: 45.53
	• S1700-28GR-4X: 32
	• S1700-52GR-4X: 50
	• S1720-10GW-2P, S1720-10GW-2-E: 23.8

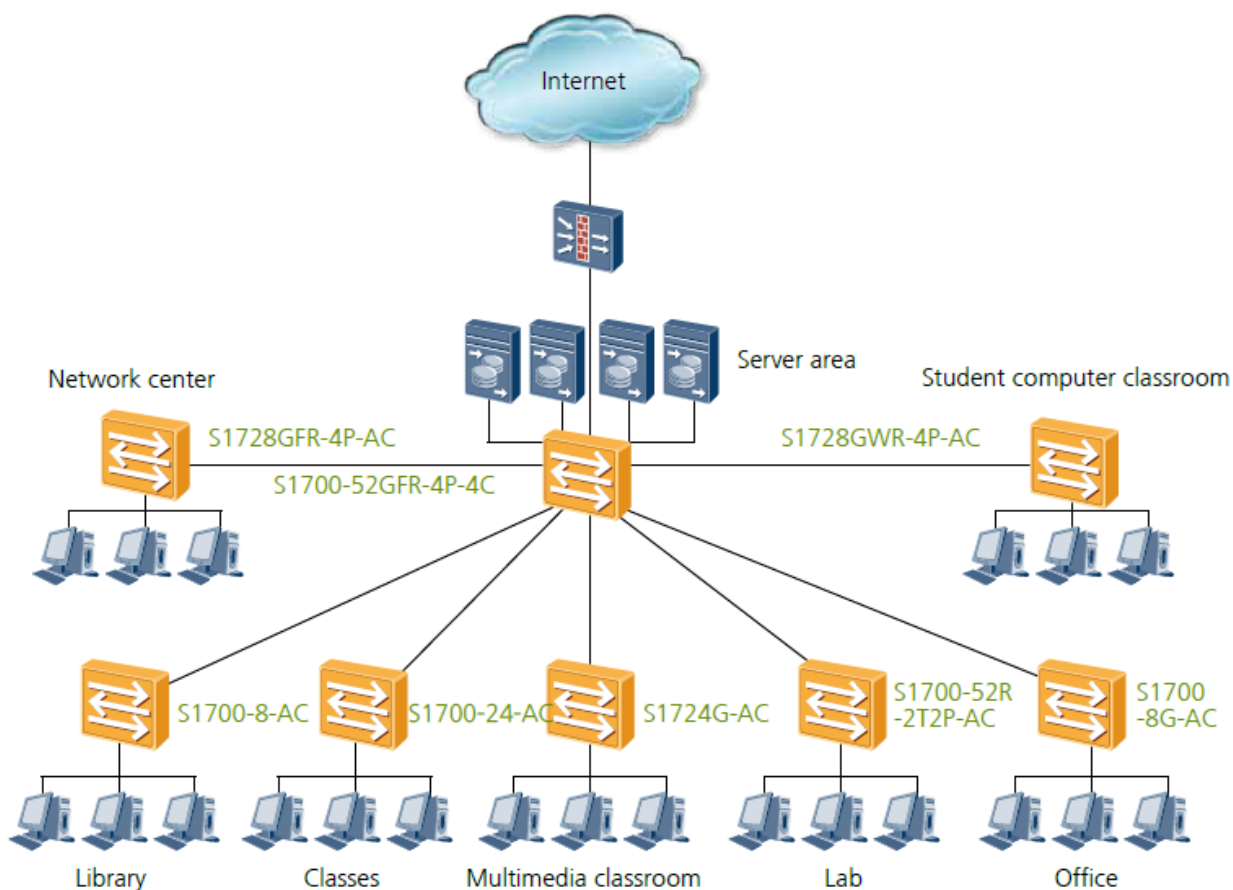| Item	Specification	
	• S1720-10GW-PWR-2P, S1720-10GW-PWR-2P-E: 23.8	
	• S1720-28GWR-4P, S1720-28GWR-4P-E: 45	
	• S1720-28GWR-4X, S1720-28GWR-4X-E: 45	
	• S1720-28GWR-PWR-4P, S1720-28GWR-PWR-4P-E: 41	
	• S1720-28GWR-PWR-4TP, S1720-28GWR-PWR-4TP-E: 42	
	• S1720-28GWR-PWR-4X, S1720-28GWR-PWR-4X-E: 41	
	• S1720-52GWR-4P, S1720-52GWR-4P-E: 41	
	• S1720-52GWR-4X, S1720-52GWR-4X-E: 41	
	• S1720-52GWR-PWR-4P, S1720-52GWR-PWR-4P-E: 38	
	• S1720-52GWR-PWR-4X, S1720-52GWR-PWR-4X-E: 38	
	• S1720X-16XWR, S1720X-16XWR-E: 37.9	
	• S1720X-32XWR, S1720X-32XWR-E: 42.8	
Mean-Time-To-Repair (MTTR), hours	2	
Dimensions (W x D x H)	• S1700-24-AC, S1700-16G, S1724G-AC: 320 mm x 208 mm x 43.6 mm	
	• S1720-10GW-2P, S1720-10GW-2-E: 250 mm x 180 mm x 43.6 mm	
	• S1720-10GW-PWR-2P, S1720-10GW-PWR-2P-E: 320 mm x 220 mm x 43.6 mm	
	• S1720-28GWR-PWR-4P, S1720-28GWR-PWR-4P -E, S1720-28GWR-PWR-4X, S1720-28GWR-PWR-4X -E, S1720-52GWR-PWR-4P, S1720-52GWR-PWR-4P-E, S1720-52GWR-PWR-4X, S1720-52GWR-PWR-4X-E: 442 mm x 310 mm x 43.6 mm	
	• Others: 442.0 mm x 220.0 mm x 43.6 mm	
Weight (without optical modules)	• S1700-24-AC: 1.63 kg	
	• S1700-52R-2T2P-AC: 2.54 kg	
	• S1700-24GR: 2.50 kg	
	• S1724G-AC: 1.71 kg	
	• S1700-16G: 1.59 kg	
	• S1700-28GR-4X: 3.78 kg	
	• S1700-52GR-4X: 4.217 kg	
	• S1720-10GW-2P, S1720-10GW-2-E: 1.29 kg	
	• S1720-10GW-PWR-2P, S1720-10GW-PWR-2P-E: 2.17 kg	
	• S1720-28GWR-4P, S1720-28GWR-4P-E: 4.75 kg	
	• S1720-28GWR-4X, S1720-28GWR-4X-E: 4.75 kg	
	• S1720-28GWR-PWR-4P, S1720-28GWR-PWR-4P-E: 5.9 kg	
	• S1720-28GWR-PWR-4TP, S1720-28GWR-PWR-4TP-E: 3.6 kg	
	• S1720-28GWR-PWR-4X, S1720-28GWR-PWR-4X-E: 5.9 kg	
	• S1720-52GWR-4P, S1720-52GWR-4P-E: 3.4 kg	
	• S1720-52GWR-4X, S1720-52GWR-4X-E: 3.4 kg	
	• S1720-52GWR-PWR-4P, S1720-52GWR-PWR-4P-E: 5.9 kg	
	• S1720-52GWR-PWR-4X, S1720-52GWR-PWR-4X -E: 5.9 kg	
	• S1720X-16XWR, S1720X-16XWR-E: 4.07 kg	
	• S1720X-32XWR, S1720X-32XWR-E: 4.23 kg	
AC Input Voltage	Rated voltage range	100V to 240V AC; 50/60 Hz
	Maximum voltage range	90V to 264V AC; 47 Hz to 63 Hz
Maximum Power	• S1700-24-AC: 3.9 W	

Item	Specification
Consumption (100% throughput, full speed of fans)	- S1700-52R-2T2P-AC: 22.6 W - S1700-24GR: 14.2 W - S1724G-AC: 14.2 W - S1700-16G: 12.8 W - S1700-28GR-4X: 44.6 W - S1700-52GR-4X: 44.6 W - S1720-10GW-2P, S1720-10GW-2-E: 11.86W - S1720-10GW-PWR-2P, S1720-10GW-PWR-2P-E: without PD: 14.63W; with PD: 159.2W (PoE:123.2W) - S1720-28GWR-4P, S1720-28GWR-4P-E: 20.2W - S1720-28GWR-4X, S1720-28GWR-4X-E: 27.9W - S1720-28GWR-PWR-4P, S1720-28GWR-PWR-4P-E: without PD: 40.4W; with PD: 446.7W (PoE: 369.6W) - S1720-28GWR-PWR-4TP, S1720-28GWR-PWR-4TP-E: without PD: 24.4W; with PD: 165.528W (PoE: 123.2W) - S1720-28GWR-PWR-4X, S1720-28GWR-PWR-4X-E: without PD: 42.7W; with PD: 448.5W (PoE: 369.6W) - S1720-52GWR-4P, S1720-52GWR-4P-E: 47.3W - S1720-52GWR-4X, S1720-52GWR-4X-E: 50.3W - S1720-52GWR-PWR-4P, S1720-52GWR-PWR-4P-E: without PD: 61.7W; with PD: 461.8W (PoE: 369.6W) - S1720-52GWR-PWR-4X, S1720-52GWR-PWR-4X-E: without PD: 63.5W; with PD: 464.3W (PoE: 369.6W) - S1720X-16XWR, S1720X-16XWR-E: 63.1 W - S1720X-32XWR, S1720X-32XWR-E: 103.6 W
Operating Temperature	0-1800m: 0°C-45°C 1800-5000m: decrease 1°C when the altitude increases every 220m
Noise (under normal temperature-sound power)	- S1700-52GR-4X: 44.5 dBA - S1720-28GWR-PWR-4P, S1720-28GWR-PWR-4P-E: 44.2 dBA - S1720-28GWR-PWR-4X, S1720-28GWR-PWR-4X-E: 44.2 dBA - S1720-52GWR-4P, S1720-52GWR-4P-E: 35.1 dBA - S1720-52GWR-4X, S1720-52GWR-4X-E: 35.1 dBA - S1720-52GWR-PWR-4P, S1720-52GWR-PWR-4P-E: 43.1 dBA - S1720-52GWR-PWR-4X, S1720-52GWR-PWR-4X-E: 43.1 dBA - S1720X-16XWR, S1720X-16XWR-E: 34.6 dBA - S1720X-32XWR, S1720X-32XWR-E: 34.6 dBA - Others: Silent (no fan)
Relative Humidity (RH)	- S1700-52R-2T2P-AC: 10% RH to 90% RH - Others: 5% RH to 95% RH
Operating Altitude	- S1700-52R-2T2P-AC: 0 m to 3,500 m - Others: 0 m to 5,000 m

Networking and Applications

Hotel Scenario
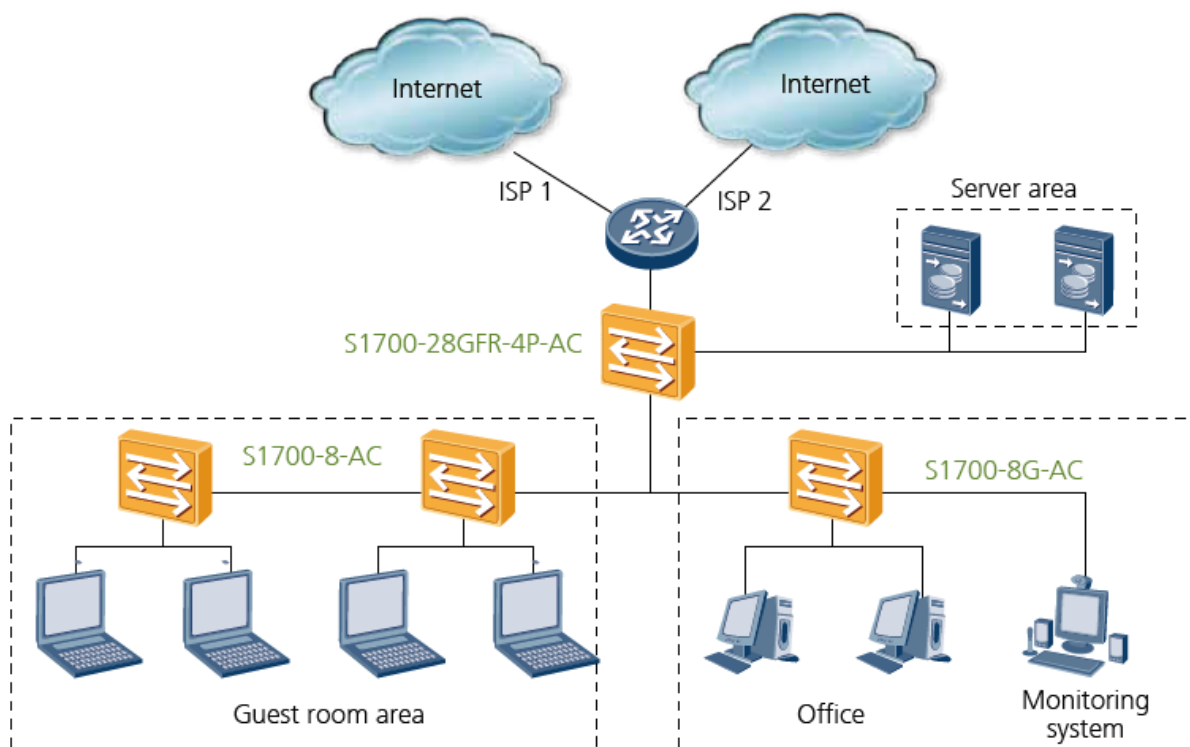
School Scenario

Product Accessories

Optical Modules and Fibers

The following table lists the optical modules supported by the S1700 switches.

Optical modules and fibers supported by the S1700 switches

Port Type	Optical Module
100 BASE-X Ethernet Port	- SFP-FE-SX-MM1310 - eSFP-FE-LX-SM1310 - S-SFP-FE-LH40-SM1310 - S-SFP-FE-LH80-SM1550 - SFP-FE-LX-SM1310-BIDI (single-mode bi-directional fiber) - SFP-FE-LX-SM1550-BIDI (single-mode bi-directional fiber)
1,000 BASE-X Ethernet Port	- eSFP-GE-SX-MM850 - SFP-GE-LX-SM1310 - S-SFP-GE-LH40-SM1310 - S-SFP-GE-LH40-SM1550 - S-SFP-GE-LH80-SM1550 - eSFP-GE-ZX100-SM1550 - SFP-GE-LX-SM1310-BIDI (single-mode bi-directional fiber) - SFP-GE-LX-SM1490-BIDI (single-mode bi-directional fiber) - LE2MGSC40ED0 (single-mode bi-directional fiber) - SFP-GE-ZBXD1 (single-mode bi-directional fiber) - SFP-GE-ZBXU1 (single-mode bi-directional fiber) - SFP-GE-BXU1-SC (single-mode bi-directional fiber) - CWDM-SFPGE-1471 - CWDM-SFPGE-1491 - CWDM-SFPGE-1511 - CWDM-SFPGE-1531 - CWDM-SFPGE-1551 - CWDM-SFPGE-1571 - CWDM-SFPGE-1611 - DWDM-SFPGE-1560-61 - SFP-1,000 Base-T
1,000 BASE-X Ethernet Port	- SFP-10G-USR - OMXD30000 - SFP-10G-iLR - OSX010000 - OSX040N01 - SFP-10G-ER-1310 - SFP-10G-ZR - SFP-10G-BXU1 (single-mode bi-directional fiber) - SFP-10G-BXD1 (single-mode bi-directional fiber) - SFP-10G-ER-SM1330-BIDI (single-mode bi-directional fiber) - SFP-10G-ER-SM1270-BIDI (single-mode bi-directional fiber)

Port Type	Optical Module
	• SFP-10G-ZCW1471
	• SFP-10G-ZCW1491
	• SFP-10G-ZCW1511
	• SFP-10G-ZCW1531
	• SFP-10G-ZCW1551
	• SFP-10G-ZCW1571
	• SFP-10G-ZCW1591
	• SFP-10G-ZCW1611
	• SFP-10G-ZDWT

📖 NOTE

The fibers and optical modules supported by Huawei switches are periodically updated. For the latest information, visit http://support.huawei.com/enterprise/en/doc/EDOC1000013597?section=j07w&topicName=pluggable-modules-for-interfaces or contact your local Huawei sales office.

Safety and Regulatory Compliance

The following table lists the safety and regulatory compliance of the S1700.

Safety and regulatory compliance of the S1700 series

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
Laser Safety	• 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

Certification Category	Description
Environment	- RoHS - REACH - WEEE

📖 **NOTE**

- 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 Management Information Bases (MIBs)

The following table lists the MIBs supported by S1720 series.

MIBs supported by the S1720 series

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 - P-BRIDGE-MIB - Q-BRIDGE-MIB - RFC1213-MIB

Category	MIB
	• RMON-MIB
	• SAVI-MIB
	• SNMP-FRAMEWORK-MIB
	• SNMP-MPD-MIB
	• SNMP-NOTIFICATION-MIB
	• SNMP-TARGET-MIB
	• SNMP-USER-BASED-SM-MIB
	• SNMPv2-MIB
	• SNMP-VIEW-BASED-ACM-MIB
	• TCP-MIB
	• UDP-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-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-ERPS-MIB
	• HUAWEI-ERRORDOWN-MIB
	• HUAWEI-ENERGYMNGT-MIB
	• HUAWEI-EASY-OPERATION-MIB
	• HUAWEI-ENTITY-EXTENT-MIB
	• HUAWEI-ENTITY-TRAP-MIB
	• HUAWEI-ETHARP-MIB
	• HUAWEI-FLASH-MAN-MIB
	• HUAWEI-FWD-RES-TRAP-MIB
	• HUAWEI-GARP-APP-MIB
	• HUAWEI-GTL-MIB
	• HUAWEI-HGMP-MIB

Category	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 • HUAWEI-MFF-MIB • HUAWEI-MFLP-MIB • HUAWEI-MSTP-MIB • HUAWEI-MULTICAST-MIB • HUAWEI-NTPV3-MIB • HUAWEI-PERFORMANCE-MIB • HUAWEI-PERFMGMT-MIB • HUAWEI-PORT-MIB • HUAWEI-PORTAL-MIB • HUAWEI-QINQ-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

Standards Compliance

The following table lists the standards that the S1720 complies with.

Standards compliance list of the S1720 series

Standard Organization	Standard or Protocol
IETF	• RFC 768 User Datagram Protocol (UDP)

Standard Organization	Standard or Protocol
	• 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 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)
	• RFC 1901 Introduction to Community-based SNMPv2
	• RFC 1902-1907 SNMP v2
	• RFC 1981 Path MTU Discovery for IP version 6
	• RFC 2131 Dynamic Host Configuration Protocol (DHCP)
	• RFC 2460 Internet Protocol, Version 6 Specification (IPv6)
	• RFC 2461 Neighbor Discovery for IP Version 6 (IPv6)
	• RFC 2462 IPv6 Stateless Address Auto configuration
	• RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6)
	• RFC 2474 Differentiated Services Field (DS Field)
	• RFC 2863 The Interfaces Group MIB
	• RFC 2597 Assured Forwarding PHB Group
	• RFC 2598 An Expedited Forwarding PHB
	• RFC 2571 SNMP Management Frameworks
	• RFC 2865 Remote Authentication Dial In User Service (RADIUS)
	• RFC 3046 DHCP Option82
	• RFC 3513 IP Version 6 Addressing Architecture
	• RFC 3579 RADIUS Support For EAP
	• draft-grant-tacacs-02 TACACS+
IEEE	• IEEE 802.1D Media Access Control (MAC) Bridges
	• IEEE 802.1p Virtual Bridged Local Area Networks
	• IEEE 802.1Q Virtual Bridged Local Area Networks
	• IEEE 802.1ad Provider Bridges
	• IEEE 802.2 Logical Link Control
	• IEEE Std 802.3 CSMA/CD
	• IEEE Std 802.3ab 1,000 BASE-T specification
	• IEEE Std 802.3ad Aggregation of Multiple Link Segments
	• IEEE Std 802.3ae 10 GE WAN/LAN Standard
	• IEEE Std 802.3x Full Duplex and flow control
	• IEEE Std 802.3z Gigabit Ethernet Standard

Standard Organization	Standard or Protocol
	• IEEE802.1ax/IEEE802.3ad Link Aggregation • IEEE 802.1ab Link Layer Discovery Protocol • IEEE 802.1D Spanning Tree Protocol • IEEE 802.1w Rapid Spanning Tree Protocol • IEEE 802.1s Multiple Spanning Tree Protocol • IEEE802.1x Port based network access control protocol
ITU	• ITU SG13 QoS control Ethernet-Based IP Access
MEF	• MEF 2 Requirements and Framework for Ethernet Service Protection • MEF 9 Abstract Test Suite for Ethernet Services at the UNI • MEF 11 UNI Requirements and Framework • 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

📖 **NOTE**

The listed standards and protocols are fully or partially supported by Huawei switches. For details, visit http://e.huawei.com/en or contact your local Huawei sales office.

Ordering Information

The following table lists ordering information of the S1700 series switches.

Ordering information of the S1700 series

Item	Product Description
1	S1700-16G (16 Ethernet 10/100/1,000 ports, AC 110/220V)
2	S1700-24-AC (24 Ethernet 10/100 ports, AC 110/220V)
3	S1724G-AC (24 Ethernet 10/100/1,000 ports, AC 110/220V)
4	S1700-24GR (24 Ethernet 10/100/1,000 ports, AC 110/220V)
5	S1700-52R-2T2P-AC (48 Ethernet 10/100 ports, 2 Ethernet 10/100/1,000 ports and 2 Gig SFP, AC 110/220V)
6	S1700-52GR-4X (48 Ethernet 10/100/1,000 ports, 4 10 Gig SFP+, AC 110/220V)
7	S1700-28GR-4X (24 Ethernet 10/100/1,000 ports, 4 10 Gig SFP+, AC 110/220V)
8	S1720-10GW-2P (8 Ethernet 10/100/1,000 ports, 2 Gig SFP, AC 110/220V)
9	S1720-10GW-PWR-2P (8 Ethernet 10/100/1,000 PoE+ ports, 2 Gig SFP, AC 110/220V)
10	S1720-28GWR-4P (24 Ethernet 10/100/1,000 ports, 4 Gig SFP, AC 110/220V)
11	S1720-28GWR-4X (24 Ethernet 10/100/1,000 ports, 4 10 Gig SFP+, AC 110/220V)
12	S1720-28GWR-PWR-4P (24 Ethernet 10/100/1,000 PoE+ ports, 4 Gig SFP, 370W POE AC 110/220V)
13	S1720-28GWR-PWR-4X (24 Ethernet 10/100/1,000 PoE+ ports, 4 10 Gig SFP+, 370W POE AC 110/220V)
14	S1720-52GWR-4P (48 Ethernet 10/100/1,000 ports, 4 Gig SFP, AC 110/220V)

Item	Product Description
15	S1720-52GWR-4X (48 Ethernet 10/100/1,000 ports, 4 10 Gig SFP+, AC 110/220V)
16	S1720-52GWR-PWR-4P (48 Ethernet 10/100/1,000 PoE+ ports, 4 Gig SFP, 370W POE AC 110/220V)
17	S1720-52GWR-PWR-4X (48 Ethernet 10/100/1,000 PoE+ ports, 4 10 Gig SFP+, 370W POE AC 110/220V)
18	S1720-28GWR-PWR-4TP (24 Ethernet 10/100/1,000, 2 Gig SFP and 2 dual-purpose 10/100/1,000 or SFP, 8 ports PoE+, 124W POE AC)
19	S1720X-16XWR (16 10Gig SFP+, AC110/220V)
20	S1720X-32XWR (32 10Gig SFP+, AC110/220V)
21	S1720-10GW-2P-E (8 Ethernet 10/100/1,000 ports, 2 Gig SFP, with license, AC 110/220V)
22	S1720-10GW-PWR-2P-E (8 Ethernet 10/100/1,000 PoE+ ports, 2 Gig SFP, with license, AC 110/220V)
23	S1720-28GWR-4P-E (24 Ethernet 10/100/1,000 ports, 4 Gig SFP, with license, AC 110/220V)
24	S1720-28GWR-4X-E (24 Ethernet 10/100/1,000 ports, 4 10 Gig SFP+, with license, AC 110/220V)
25	S1720-28GWR-PWR-4P-E (24 Ethernet 10/100/1,000 ports, 4 Gig SFP, PoE+, with license, 370W POE AC 110/220V)
26	S1720-28GWR-PWR-4X-E (24 Ethernet 10/100/1,000 ports, 4 10 Gig SFP+, PoE+, with license, 370W POE AC 110/220V)
27	S1720-52GWR-4P-E (48 Ethernet 10/100/1,000 ports, 4 Gig SFP, with license, AC 110/220V)
28	S1720-52GWR-4X-E (48 Ethernet 10/100/1,000 ports, 4 10 Gig SFP+, with license, AC 110/220V)
29	S1720-52GWR-PWR-4P-E (48 Ethernet 10/100/1,000 ports, 4 Gig SFP, PoE+, with license, 370W POE AC 110/220V)
30	S1720-52GWR-PWR-4X-E (48 Ethernet 10/100/1,000 ports, 4 10 Gig SFP+, PoE+,with license,370W POE AC 110/220V)
31	S1720-28GWR-PWR-4TP-E (24 Ethernet 10/100/1,000, 2 Gig SFP and 2 dual-purpose 10/100/1,000 or SFP, 8 ports PoE+, with license, 124W POE AC, front access)
32	S1720X-16XWR-E (16 10Gig SFP+, with license, AC110/220V)
33	S1720X-32XWR-E (32 10Gig SFP+, with license, AC110/220V)

More Information

For more information about Huawei Campus Switches, visit http://e.huawei.com or contact us in the following ways:

- Global service hotline: http://e.huawei.com/en/service-hotline
- Logging in to the Huawei Enterprise technical support website: http://support.huawei.com/enterprise/
- Sending an email to the customer service mailbox: support_e@huawei.com

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