

# S1700 Series Enterprise Switches





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## Product Overview

The S1700 series enterprise switches (S1700s) are next-generation energy-saving Ethernet access switches. The S1700 uses high-performance hardware, which offers a wide array of features to help customers build secure, reliable, high-performance networks. The S1700 is easy to install and maintain, and is ideal for small-size and medium-size enterprises, Internet cafes, hotels, and schools.

The S1700 consists of unmanaged switches, SNMP-based switches, and a web-managed switch:

- Unmanaged switches include the S1700-8-AC, S1700-24-AC, S1700-52R-2T2P-AC, S1700-8G-AC, S1724G and S1700-24GR.
- SNMP-based switches include the S1700-28FR-2T2P-AC, S1700-28GFR-4P-AC and S1700-52FR-2T2P-AC, S1700-52GFR-4P-AC.
- The web-managed switch is the S1728GWR-4P.

## Product Appearance

### S1700-8-AC



- 8 Ethernet 10/100 ports
- AC power supply
- Packet forwarding rate: 1.2 Mpps

### S1700-24-AC



- 24 Ethernet 10/100 ports
- AC power supply
- Packet forwarding rate: 3.6 Mpps

### S1700-52R-2T2P-AC



- 48 Ethernet 10/100 ports, 2 Ethernet 10/100/1000 ports and 2 Gig SFP
- AC power supply
- Packet forwarding rate: 13.2 Mpps

### S1700-8G-AC



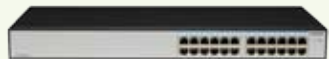
- 8 Ethernet 10/100/1000 ports
- AC power supply
- Packet forwarding rate: 12 Mpps

### S1724G



- 24 Ethernet 10/100/1000 ports
- AC power supply
- Packet forwarding rate: 36 Mpps

### S1700-24GR



- 24 Ethernet 10/100/1000 ports
- AC power supply
- Packet forwarding rate: 36 Mpps

### S1728GWR-4P



- 24 Ethernet 10/100/1000 ports, 4 Gig SFP
- AC power supply
- Packet forwarding rate: 42 Mpps

### S1700-28FR-2T2P-AC



- 24 Ethernet 10/100 ports, 2 Ethernet 10/100/1000 ports and 2 Gig SFP
- AC power supply
- Packet forwarding rate: 9.6Mpps

### S1700-52FR-2T2P-AC



- 48 Ethernet 10/100 ports, 2 Ethernet 10/100/1000 ports and 2 Gig SFP
- AC power supply
- Packet forwarding rate: 13.2Mpps

### S1700-28GFR-4P-AC



- 24 Ethernet 10/100/1000 ports, 4 Gig SFP
- AC power supply
- Packet forwarding rate: 42 Mpps

### S1700-52GFR-4P-AC



- 48 Ethernet 10/100/1000 ports, 4 Gig SFP
- AC power supply
- Packet forwarding rate: 78 Mpps

## Product Features

### **Innovative energy-saving design**

- All S1700 series switches are based on a fan-free design, which reduces power consumption and noise.
- 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.

### **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 MAC address table supports up to 8 K of MAC addresses, making it easy to expand networks and deploy new services.

### **Convenient management and maintenance**

- The S1700 is easy to manage and maintain, being 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.
- SNMP-based S1700 models allow for the use of an SNMP-based NMS for centralized configuration and management.

### **Powerful security performance**

- The S1700 provides a range of security features, including 802.1x, RADIUS, 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. SNMP-based switches support up to eight MSTP instances for flexible networking.

## Product Specifications

### S1700 hardware specifications

Type	Unmanaged Switch						Web-managed Switch
Model	S1700-8-AC	S1700-24-AC	S1700-52R-2T2P-AC	S1700-8G-AC	S1724G	S1700-24GR	S1728GWR-4P
Downlink port	8 Ethernet 10/100 ports	24 Ethernet 10/100 ports	48 Ethernet 10/100 ports	8 Ethernet 10/100/1000 ports	24 Ethernet 10/100/1000 ports	24 Ethernet 10/100/1000 ports	24 Ethernet 10/100/1000 ports
Uplink port	Shared with downlink ports	Shared with downlink ports	2 Ethernet 10/100/1000 ports and 2 Gig SFP	Shared with downlink ports	Shared with downlink ports	Shared with downlink ports	4 Gig SFP
MAC address table	8 K MAC						
Dimensions mm (W*D *H)	160*134*30	320*208*43.6	442*220*43.6	160*134*30	330*208*43.6	442*220*43.6	442*220*43.6
Input voltage	100 V to 240 V AC, 50/60 Hz						
EEE	NA						Supported
Power consumption	<5W	<15W	<25W	<10W	<15W	<20W	<15W
Operating temperature	0°C to 45°C						
Humidity (non-condensing)	10%~90%				5%~90%		
Heat dissipation	Fan-free natural heat dissipation						

Type	SNMP-based Switch			
Model	S1700-28FR-2T2P-AC	S1700-52FR-2T2P-AC	S1700-28GFR-4P-AC	S1700-52GFR-4P-AC
Downlink port	24 Ethernet 10/100 ports	48 Ethernet 10/100 ports	24 Ethernet 10/100/1000 ports	48 Ethernet 10/100/1000 ports
Uplink port	2 Ethernet 10/100/1000 ports and 2 Gig SFP	2 Ethernet 10/100/1000 ports and 2 Gig SFP	4 Gig SFP	4 Gig SFP
MAC address table	8 K MAC			
Dimensions mm (W*D *H)	442*220*43.6 mm			
Input voltage	100 V to 240 V AC, 50/60 Hz			
EEE	NA	NA	Supported	Supported
Power consumption	<25W	<35W	<30W	<55W
Operating temperature	0°C to 45°C			
Humidity (non-condensing)	10% to 90%			
Heat dissipation	Fan-free natural heat dissipation	Fan-free natural heat dissipation	Fan-free natural heat dissipation	Heat dissipation using fans supporting intelligent speed adjustment

## Service Features

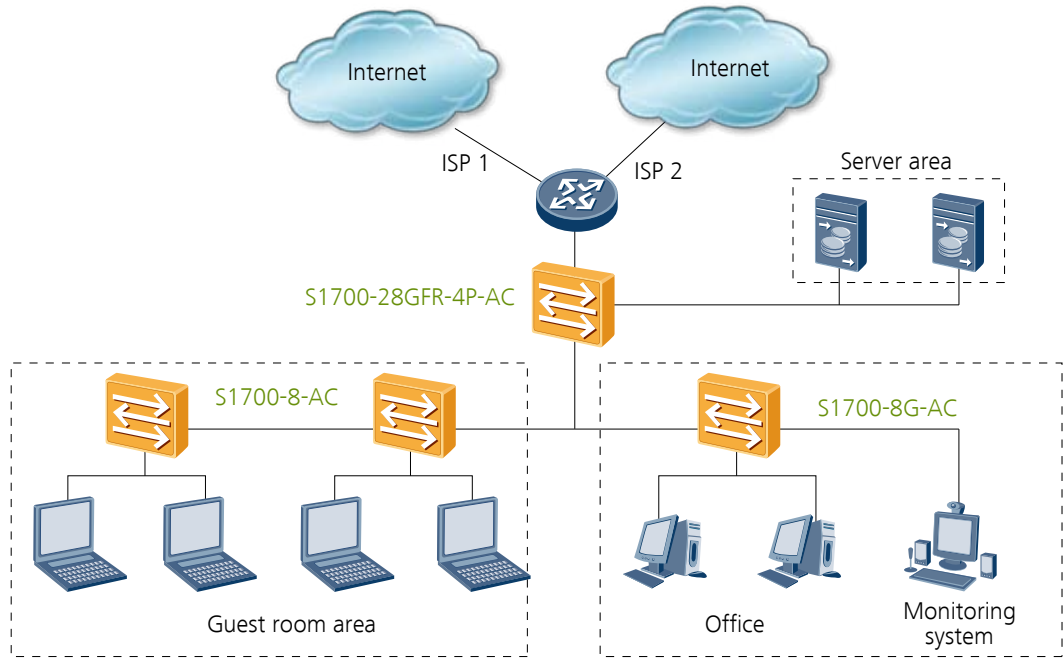
Item	Web-managed Switch	SNMP-based Switch
Security features	<ul style="list-style-type: none"> <li>Packet filtering based on MAC addresses</li> <li>Port-based 802.1x authentication</li> <li>RADIUS authentication</li> <li>Port isolation</li> </ul>	<ul style="list-style-type: none"> <li>Hardware ACL</li> <li>Packet filtering based on MAC addresses</li> <li>MAC address authentication</li> <li>Port-based 802.1x authentication.</li> <li>RADIUS authentication</li> <li>Port isolation</li> <li>Storm suppression</li> <li>Attack defense, which prevents broadcast traffic, ARP attacks, ICMP attacks, TCP attacks, worm viruses, and DoS attacks</li> <li>DHCP snooping</li> </ul>
VLANs	<ul style="list-style-type: none"> <li>256 VLANs</li> <li>Access port</li> <li>Trunk port</li> <li>Hybrid port</li> <li>Management VLAN</li> <li>Voice VLAN</li> </ul>	<ul style="list-style-type: none"> <li>4 K VLANs</li> <li>Access port</li> <li>Trunk port</li> <li>Hybrid port</li> <li>Management VLAN</li> <li>Voice VLAN</li> </ul>

Item	Web-managed Switch	SNMP-based Switch
QoS	PQ and WRR Four queues on each port 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)	STP(IEEE 802.1d), RSTP(IEEE 802.1w), and MSTP(IEEE 802.1s)
Multicast	IGMP snooping and a maximum of 256 multicast groups	IGMP snooping and a maximum of 256 multicast groups Fast leave
Link aggregation	12 link aggregation groups (LAGs) with a maximum of eight ports in each LAG Static LACP	12 link aggregation groups (LAGs) with a maximum of eight ports in each LAG Static LACP
Port mirroring	Port-based bidirectional flow mirroring	Port-based bidirectional flow mirroring Configuring a trunk as a mirrored interface
Bandwidth control	Rate limiting for incoming and outgoing packets, with a granularity of 64 kbps	Rate limiting for incoming and outgoing packets, with a granularity of 64 kbps
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	SNMP Web system network management (HTTPS) DHCP client User password protection One-key restoration
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)

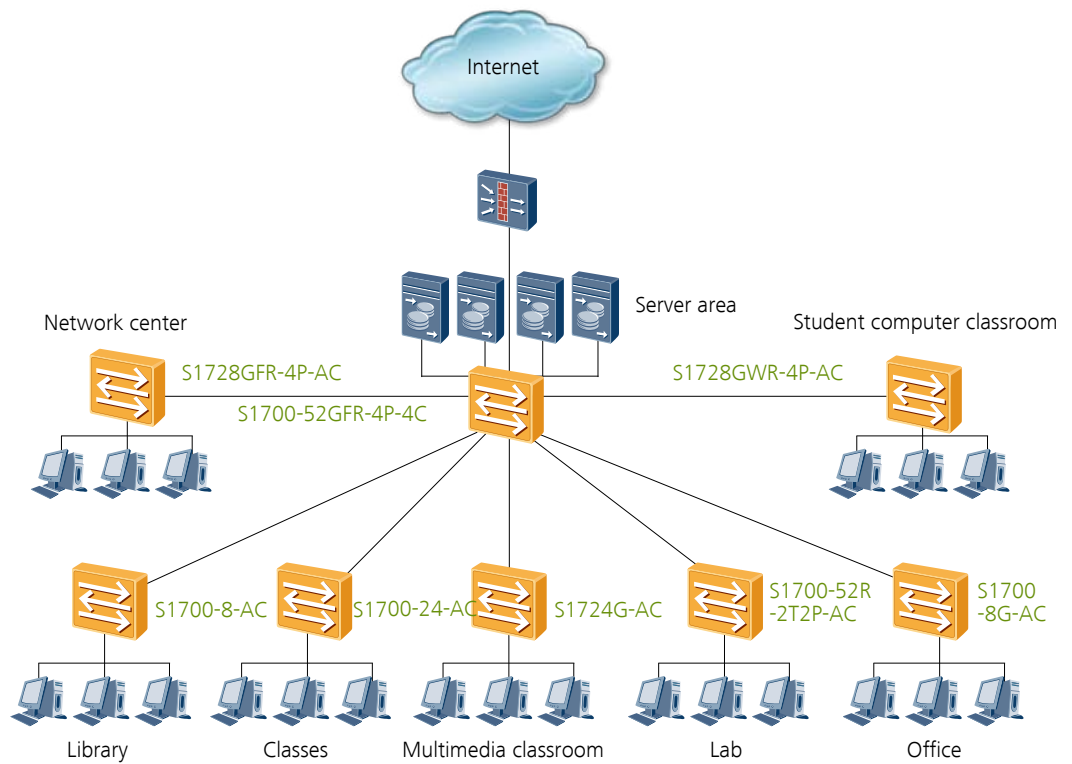


## Applications

### Hotels



### Schools



## Product List

S1700 switch models

Product Description
S1700-8-AC (8 Ethernet 10/100 ports, AC 110/220V,China Power Adapter)
S1700-8-AC (8 Ethernet 10/100 ports, AC 110/220V,North America Power Adapter)
S1700-8-AC (8 Ethernet 10/100 ports, AC 110/220V,Europe Power Adapter)
S1700-8-AC (8 Ethernet 10/100 ports, AC 110/220V,Switzerland Power Adapter)
S1700-8-AC (8 Ethernet 10/100 ports, AC 110/220V,Italy Power Adapter)
S1700-8-AC (8 Ethernet 10/100 ports, AC 110/220V,UK/Singapore/HK Power Adapter)
S1700-8G-AC (8 Ethernet 10/100/1000 ports, AC 110/220V,China Power Adapter)
S1700-8G-AC (8 Ethernet 10/100/1000 ports, AC 110/220V, AC 110/220V,Australia Power Adapter)
S1700-8G-AC (8 Ethernet 10/100/1000 ports, AC 110/220V,North America Power Adapter)
S1700-8G-AC (8 Ethernet 10/100/1000 ports, AC110/220V,Europe Power Adapter)
S1700-8G-AC (8 Ethernet 10/100/1000 ports, AC110/220V,Switzerland Power Adapter)
S1700-8G-AC (8 Ethernet 10/100/1000 ports, AC 110/220V,Italy Power Adapter)
S1700-8G-AC (8 Ethernet 10/100/1000 ports, AC 110/220V, UK/Singapore/Hongkong Power Adapter)
S1700-24-AC (24 Ethernet 10/100 ports, AC 110/220V)
S1724G (24 Ethernet 10/100/1000 ports, AC 110/220V)
S1700-24GR(24 Ethernet 10/100/1000 ports, AC 110/220V)
S1728GWR-4P (24 Ethernet 10/100/1000 ports,4 Gig SFP,AC 110/220V)
S1700-28FR-2T2P-AC (24 Ethernet 10/100 ports,2 Ethernet 10/100/1000 ports and 2 Gig SFP,AC 110/220V)
S1700-28GFR-4P-AC (24 Ethernet 10/100 ports,4 Gig SFP,AC 110/220V)
S1700-52R-2T2P-AC(48 Ethernet 10/100 ports,2 Ethernet 10/100/1000 ports and 2 Gig SFP,AC 110/220V)
S1700-52FR-2T2P-AC (48 Ethernet 10/100 ports,2 Ethernet 10/100/1000 ports and 2 Gig SFP,AC 110/220V)
S1700-52GFR-4P-AC (48 Ethernet 10/100/1000 ports,4 Gig SFP,AC 110/220V)

For more information, visit <http://enterprise.huawei.com> or contact the Huawei local sales office.




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