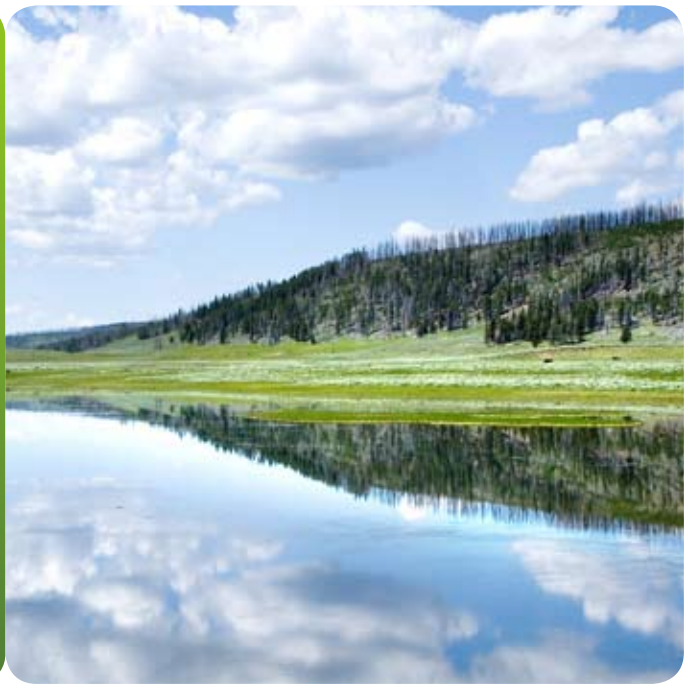
S1700 Series Enterprise Switches



HUAWEI TECHNOLOGIES CO., LTD.

HUAWEI

S1700 Series Enterprise Switches

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

Product Appearance

S1700-8-AC

- Eight 10/100 M Ethernet electrical ports
- AC power supply
- Packet forwarding rate: 1.2 Mpps

S1700-24-AC

- Twenty-four 10/100 M Ethernet electrical ports
- AC power supply
- Packet forwarding rate: 3.6 Mpps

S1700-52R-2T2P-AC

- Forty-eight 10/100 M Ethernet electrical ports, two GE electrical ports, and two GE optical ports
- AC power supply
- Packet forwarding rate: 13.2 Mpps

S1700-8G-AC

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

S1724G-AC

- Twenty-four 10/100/1000 M Ethernet electrical ports
- AC power supply
- Packet forwarding rate: 36 Mpps

S1728GWR-4P-AC

- Twenty-four 10/100/1000M Ethernet electrical ports and four GE SFP optical ports
- AC power supply
- Packet forwarding rate: 42 Mpps

S1700-28FR-2T2P-AC

- Twenty-four 10/100M Ethernet electrical ports, two GE RJ45 ports, and two GE SFP ports
- AC power supply
- Packet forwarding rate: 9.6Mpps

S1700-52FR-2T2P-AC

- Forty-eight 10/100M Ethernet electrical ports, two GE RJ45 ports, and two GE SFP ports
- AC power supply
- Packet forwarding rate: 13.2Mpps

S1700-28GFR-4P-AC

- Twenty-four 10/100/1000 M Ethernet electrical ports and four GE SFP ports
- AC power supply
- Packet forwarding rate: 42 Mpps

S1700-52GFR-4P-AC

- Forty-eight 10/100/1000M Ethernet electrical ports and four GE SFP ports
- AC power supply
- Packet forwarding rate: 78 Mpps

Product Features

Innovative energy-saving design

- All S1700 series switches except the S1700-52GFR-4P-AC feature 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

Type	Unmanaged Switch					Web-managed Switch	SNMP-based Switch			
Model	S1700-8-AC	S1700-24-AC	S1700-52R-2T2P-AC	S1700-8G-AC	S1724G-AC	S1728GWR-4P-AC	S1700-28FR-2T2P-AC	S1700-52FR-2T2P-AC	S1700-28GFR-4P-AC	S1700-52GFR-4P-AC
Downlink port	Eight 10/100 M electrical ports	Twenty-four 10/100 M electrical ports	Forty-eight 10/100 M electrical ports	Eight 10/100/1000 M electrical ports	Twenty-four 10/100/1000 M electrical ports	Twenty-four 10/100/1000 M electrical ports	Twenty-four 10/100 M electrical ports	Forty-eight 10/100 M electrical ports	Twenty-four 10/100/1000 M electrical ports	Forty-eight 10/100/1000 M electrical ports
Uplink port	Shared with downlink ports	Shared with downlink ports	2 GE electrical ports 2 GE SFP optical ports	Shared with downlink ports	Shared with downlink ports	4 GE SFP optical ports	2 GE electrical ports 2 GE SFP optical ports	2 GE electrical ports 2 GE SFP optical ports	4 GE SFP optical ports	4 GE SFP optical ports
MAC address table	8 K MAC	8 K MAC	8 K MAC	8 K MAC	8 K MAC	8 K MAC	8 K MAC	8 K MAC	8 K MAC	8 K MAC
Dimensions W*D*H	160*134*30mm	320*208*43.6mm	442*220*43.6mm	160*134*30mm	330*208*43.6mm	442*220*43.6mm	442*220*43.6mm	442*220*43.6mm	442*220*43.6mm	442*220*43.6mm
Input voltage	100 V to 240 V AC, 50/60 Hz	100 V to 240 V AC, 50/60 Hz	100 V to 240 V AC, 50/60 Hz	100 V to 240 V AC, 50/60 Hz	100 V to 240 V AC, 50/60 Hz	100 V to 240 V AC, 50/60 Hz	100 V to 240 V AC, 50/60 Hz	100 V to 240 V AC, 50/60 Hz	100 V to 240 V AC, 50/60 Hz	100 V to 240 V AC, 50/60 Hz
EEE	Not supported	Not supported	Not supported	Not Supported	Supported	Supported	Not supported	Not supported	Supported	Supported
Power consumption	<5 W	<10 W	<20 W	<10 W	<20 W	<20 W	<20 W	<30 W	<25 W	<45 W
Operating temperature	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity (non-condensing)	20% to 85%	20% to 85%	20% to 85%	20% to 85%	20% to 85%	20% to 85%	20% to 85%	20% to 85%	20% to 85%	20% to 85%
Storage humidity (non-condensing)	10% to 90%	10% to 90%	10% to 90%	10% to 90%	5% to 95%	5% to 95%	10% to 90%	10% to 90%	10% to 90%	10% to 90%
Heat dissipation	Without fan modules	Without fan modules	Without fan modules	Without fan modules	Without fan modules	Without fan modules	Without fan modules	Without fan modules	Without fan modules	With fan modules

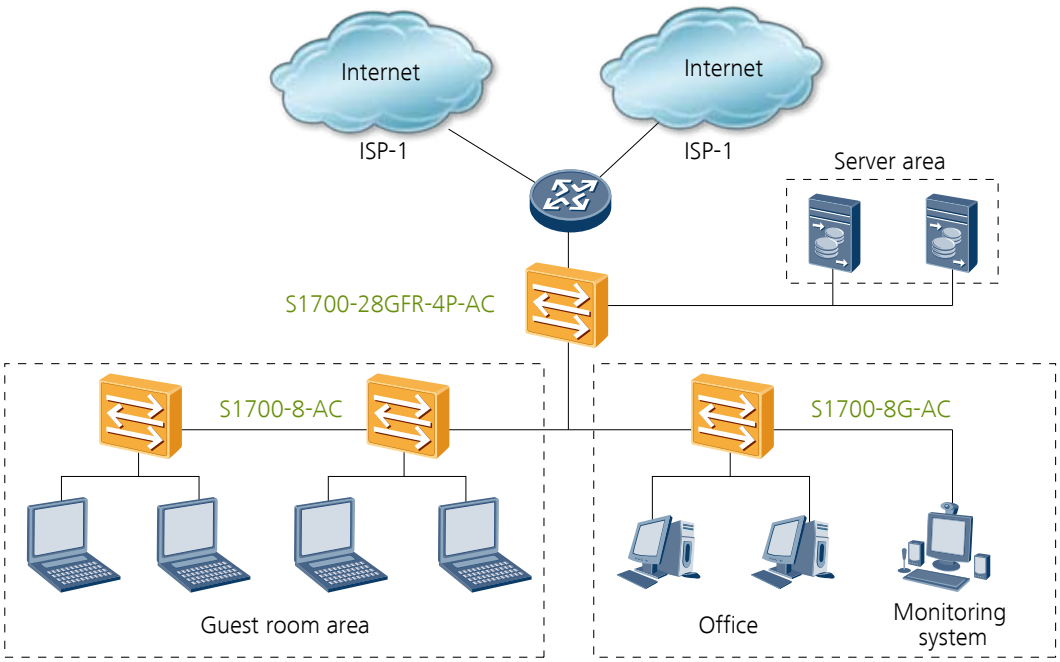
Service Features

Item	Web-managed Switch	SNMP-based Switch
Security features	Packet filtering based on MAC addresses Port-based 802.1x authentication RADIUS authentication Port isolation	Hardware ACL Packet filtering based on MAC addresses MAC address authentication Port-based 802.1x authentication. RADIUS authentication Port isolation Storm suppression Attack defense, which prevents broadcast traffic, ARP attacks, ICMP attacks, TCP attacks, worm viruses, and DoS attacks DHCP snooping
VLANs	256 VLANs Access port Trunk port Hybrid port Management VLAN Voice VLAN	4 K VLANs Access port Trunk port Hybrid port Management VLAN Voice VLAN
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

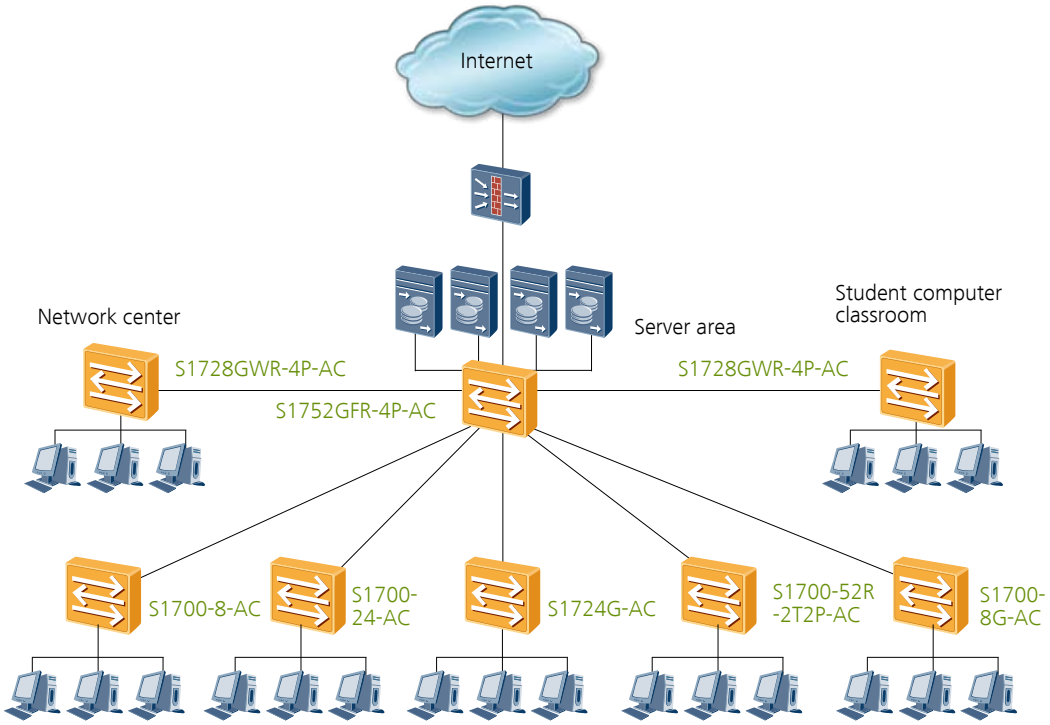
Item	Web-managed Switch	SNMP-based Switch
Device management	Web system network management DHCP client One-key restoration	SNMP Web system network management (HTTPS) DHCP client User password protection One-key restoration
Device maintenance	System log Ping Virtual Cable Test (VCT) Link Layer Discovery Protocol (LLDP)	Remote Network Monitoring (RMON) System log Ping and traceroute Virtual Cable Test (VCT) Link Layer Discovery Protocol (LLDP)

Applications

Hotels



Schools

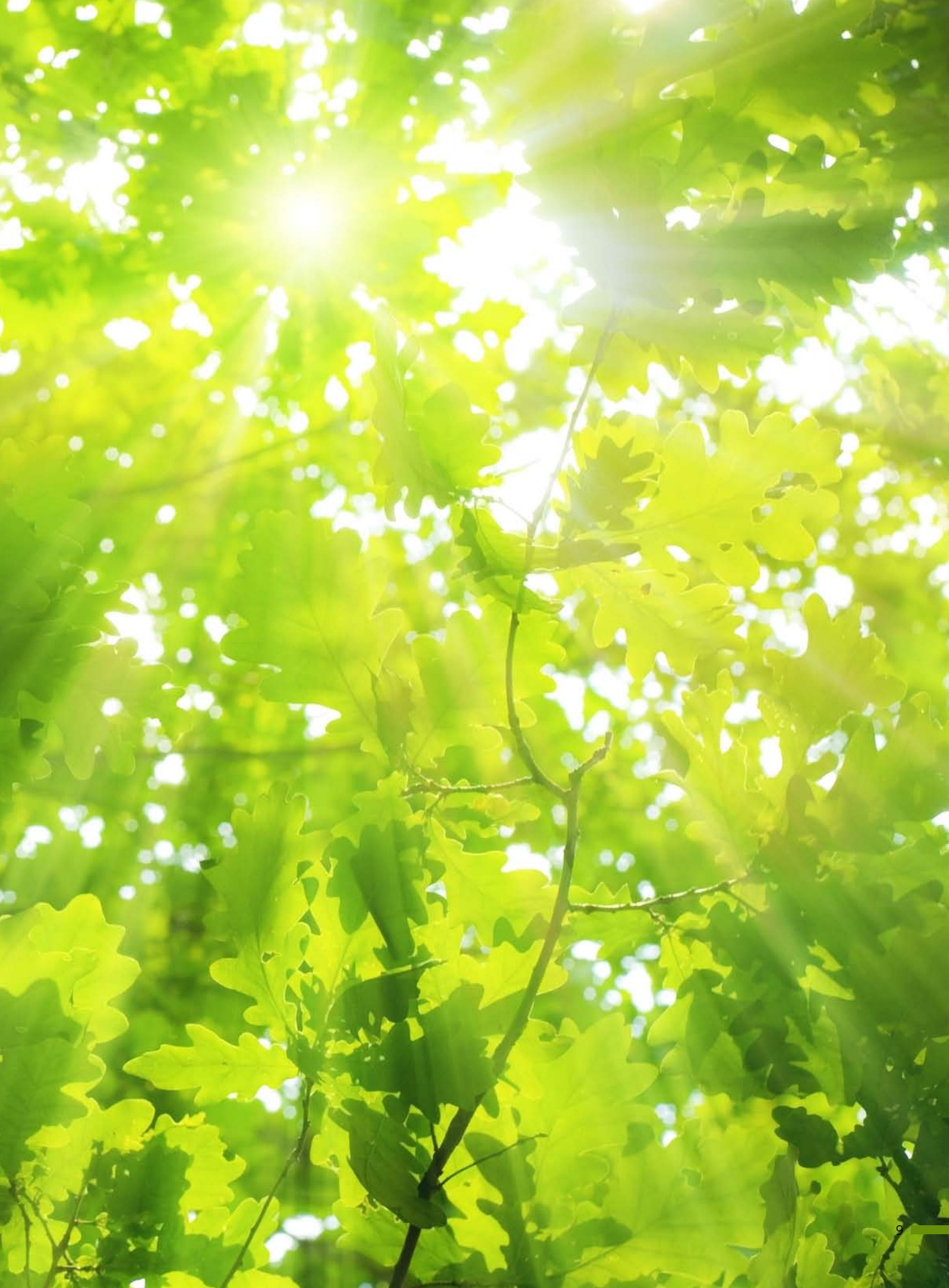


Product List

S1700 switch models

Product Description
S1700-8-AC Mainframe(8 FE RJ45,AC 110/220V)
S1700-24-AC Mainframe(24 FE RJ45,AC 110/220V)
S1700-52R-2T2P-AC Mainframe(48 FE RJ45,2 GE RJ45,2 GE SFP ,AC 110/220V)
S1700-8G-AC Mainframe(8 GE RJ45,AC110/220V)
S1724G-AC Mainframe(24 GE RJ45,AC 110/220V)
S1728GWR-4P-AC Mainframe(24 GE RJ45,4 GE SFP,AC 110/220V)
S1700-28FR-2T2P-AC Mainframe(24 FE RJ45,2 GE RJ45,2 GE SFP,AC 110/220V)
S1700-52FR-2T2P-AC Mainframe(48 FE RJ45,2 GE RJ45,2 GE SFP,AC 110/220V)
S1700-28GFR-4P-AC Mainframe(24 GE RJ45,4 GE SFP,AC 110/220V)
S1700-52GFR-4P-AC Mainframe(48 GE RJ45,4 GE SFP,AC 110/220V)

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



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

www.huawei.com