

S8802 2U Core Three-Layer Managed Switch



- High-density port design, offering 48 10GbE optical ports and 4 100GbE optical ports within a 2U space
- Dual power supply redundancy design, supporting seamless failover without manual intervention
- All ports support 6KV lightning protection
- Equipped with high-performance switching chips to meet the demands of various complex scenarios, significantly enhancing network data processing speed
- Supports STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s) protocols to eliminate Layer 2 loops and enable link backup
- Supports loop protection, root bridge protection, TC protection, BPDU protection, and BPDU filtering
- Supports 50ms optical port failover
- Supports M-LAG protocol for redundancy backup and load balancing
- Supports multiple management methods, including Console, Telnet, and SSH
- Supports web-based network management (HTTP, HTTPS, SSL V3) for simpler and more efficient installation and debugging

Description

Overview



The S8802 switch adopts a chassis architecture, providing 48 10G optical ports and 4 100G high-speed optical ports in a 2U space, along with advanced security features and advanced Quality of Service (QoS). It can be used as a campus core or aggregation switch, offering high port density, switch stacking and easy manageability, making it an ideal choice for various commercial network applications.

Switch backplane bandwidth

4 Tbps

Working Humidity

10% ~ 90% RH non-condensing

Packet forwarding

greater than 1000 Mpps

Dimensions (W × D × H)

2 x 440×320×44mm

switch port

● 48 Gigabit/10 Gigabit SFP+ fiber ports

● 4 40/100G QSFP28 optical ports

● 1 RJ45 Console port, 1 RJ45 management port

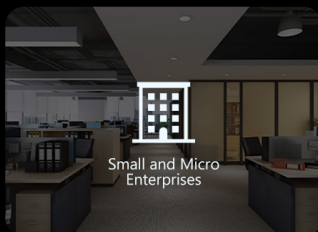
S5700-48G-4TFR

10G uplink 48 port Gigabit Layer
3 management switch



APPLICABLE SCENARIOS

Designed for small and medium - sized enterprises (SMEs), large enterprises
and Internet service providers (ISPs).



HIGHLIGHT FEATURES

- 48 10/100/1000Mbps RJ45 port
- 4 10G DFP+ fiber port
- 1 Console port



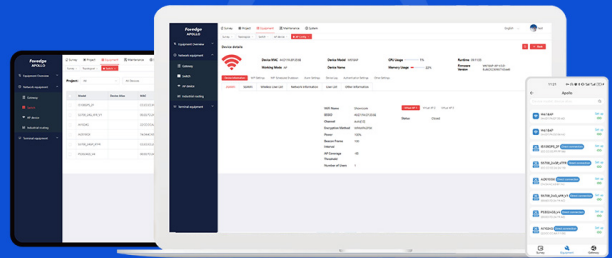
HIGH END CHIPS

High end chips with more stable and powerful performance

Foreedge

APOLLO CLOUD SYSTEM MANAGEMENT PLATFORM

Supports one-stop management on the Apollo cloud platform.



PERFECT SECURITY MECHANISM



252MPPS

Packet forwarding: 252Mpps





10%~90% RH

WORKING HUMIDITY:
10%~90% RH non condensing



Specifications

Items	S8802 Specification
Network Interface	● 48 Gigabit/10 Gigabit SFP+ fiber ports ● 4 40/100G QSFP28 optical ports ● 1 RJ45 Console port, 1 RJ45 management port 1 USB 2.0 interface
Network protocol	● IEEE 802.3、IEEE 802.3i、IEEE 802.3u、IEEE 802.3ab、IEEE 802.3z、IEEE 802.3ad、IEEE 802.3x、IEEE 802.1p、 IEEE 802.1q、IEEE 802.1d、IEEE 802.1s、IEEE 802.1w
Performance Specifications	● Backplane bandwidth: 4 Tbps ● Packet forwarding rate: greater than 1000 Mpps ● MAC address table: 96K ● Port cache: 32 Mb ● Forwarding mode: Store and Forward

LED indicator	● 48 10G SFP+ Link/Act indicator lights ● 4 40/100G QSFP28 Link/Act indicator lights ● 1 Power indicator light ● 1 SYS indicator light
Power/Fan	● Input power: AC 100-240V / 50-60Hz ● Dual AC power redundancy input, supporting plug-and-play at the site ● The fan supports 3 + 1 backup and intelligent speed control.
Dimensions (LxWxH)	● 880mm×320mm×44mm
Environmental Specifications	● Operating temperature: 0°C ~ 40°C ● Storage temperature: -40°C ~ 70°C ● Operating humidity: 10% ~ 90% RH without condensation ● Storage humidity: 5% to 90% RH without condensation
Safety regulations	● CE/ROHS/FCC

Items	S8802 Specification
Protocol standard	IEEE 802.3: Ethernet Media Access Control (MAC) Protocol IEEE 802.3i: 10BASE-T Ethernet IEEE 802.3u: 100BASE-TX Fast Ethernet IEEE 802.3ab: 1000BASE-T Gigabit Ethernet IEEE 802.3z: 1000BASE-X Gigabit Ethernet (fiber optic) IEEE 802.3ad: Standard Method for Implementing Link Aggregation IEEE 802.3x: Flow Control IEEE 802.1p: LAN Layer 2 QoS/Cos Protocol for Traffic Priority (Multicast Filtering Function) IEEE 802.1q: VLAN Bridge Operation IEEE 802.1d: STP Spanning Tree IEEE 802.1s: MSTP Spanning Tree IEEE 802.1w: RSTP Spanning Tree
Layer3 interface	Support Layer3 interface Support IPv4 and IPv6 address configuration Support ARP configuration Support ND configuration
Layer 3 routing	Support IPv4 static routing Support IPv4 dynamic routing RIP v1/v2 Support IPv4 dynamic routing OSPFv2

	Support IPv6 static routing
	Support IPv6 dynamic routing RIPv6
	Support IPv6 dynamic routing OSPFv3

Items	S8802 Specification
VLAN	Support 4K VLAN Support 802.1Q VLAN,MAC VLAN ,IP VLAN , Voice VLAN
DHCP	Support DHCP server Support DHCP relay Support DHCP Snooping
MAC address table	Comply IEEE 802.1d standard Support MAC address automatic learning and aging Support static, dynamic and filtered address tables
Safety features	Password protection Support restricting user access based on port number, IP address and MAC address Support HTTPS,SSL V3,TLS V1,SSH V1/V2 Support IP-MAC-PORT ternary binding Support ARP protection, IP source protection, DOS protection SupportDHCP Snooping,DHCP Attack protection Support802.1X certification,AAA Support Port security, port isolation Support CPU Protection function
Access control(ACL	SupportL2(Layer 2)~L4(Layer 4) packet filtering function Support Port mirroring, flow speed restriction, QoS re marking
QoS	Support 8 port queues Support port priority, 802.1p priority, DSCP priority SupportSP,WRR,SP+WRR,WFQ priority scheduling
Spanning tree	SupportSTP(IEEE 802.1d) , RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s) standard Support Loop protection, root bridge protection, TC protection, BPDU protection, BPDU filtering Support optical port 50ms switching

Items	S8802 Specification
Multicast	Support IGMP v1/v2/v3 Snooping Support MLD v1/v2 Snooping Support Fast leave mechanism and querier of layer 2 multicast Support Layer 2 IPv4 static multicast

	Support Layer 2 IPv6 static multicast Support IGMP v1/v2/v3 layer 3 multicast
Storm suppression	Support Multicast suppression Support Broadcast suppression Support Unknown unicast suppression
Link convergence	Support Static convergence Support Dynamic convergence Support based on IP, MAC and mixed load balancing mode Support 32 aggregation groups at most
IPv6	Support IPv6 Ping,IPv6 Tracert,IPv6 Telnet Support IPv6 SSH ,IPv6 SSL
Network management	Support WEB management (HTTP,HTTPS,SSL V3) Support CLI (Telnet,SSH V1/V2,local serial port) Support SNMP V1/V2/V3 Support RMON V1/V2 Support LLDP device discovery Support NTP time synchronization Support DNS Client Support CPU Monitoring, memory monitoring Support System log, classification warning Support Ping,Tracert Detection, cable detection Support Apollo cloud platform one-stop management and maintenance

Additional information

Models	S8802
Series	10G LAY3 Series