

S7802 2U Core Three-Layer Managed Switch



- The high-density port design provides 48 Gigabit optical ports, 24 Gigabit electrical ports, 8 Combo ports and 8 10 Gigabit optical ports in a 2U space.
- The dual power supply redundancy design supports seamless switching in case of failure without manual intervention.
- All ports support 6KV lightning protection.
- It adopts high-performance switching chips to meet the application requirements of various complex scenarios and significantly improve the network data processing rate.
- It supports STP (IEEE 802.1d), RSTP (IEEE 802.1w) and MSTP (IEEE 802.1s) protocols to eliminate Layer 2 loops and achieve link backup.
- It supports loop protection, root bridge protection, TC protection, BPDU protection and BPDU filtering.
- It supports 50ms optical port switching. It supports M-LAG protocol to achieve redundancy backup and load balancing.
- It supports multiple management methods such as Console, Telnet and SSH.
- It supports WEB network management (HTTP, HTTPS, SSL V3), which is simpler and more efficient, making it easier for users to install and debug.



Description

Overview

The S7802 three-layer management switch is specifically designed for small and medium-sized enterprises (SMEs), large enterprises and Internet service providers (ISPs). It features high performance, flexibility, fault tolerance and advanced software functions, enabling the maximum return on investment.



Switch backplane bandwidth

2.56 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 optical ports
- 24 Gigabit electrical ports, 8 Combo electrical ports
- 8 Gigabit SFP+ optical ports

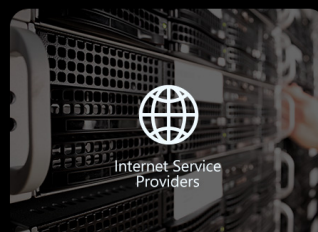
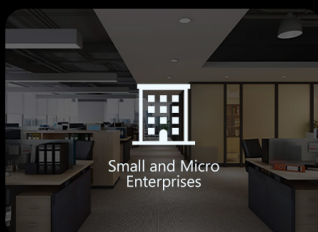
S5700-48G-4TFR

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



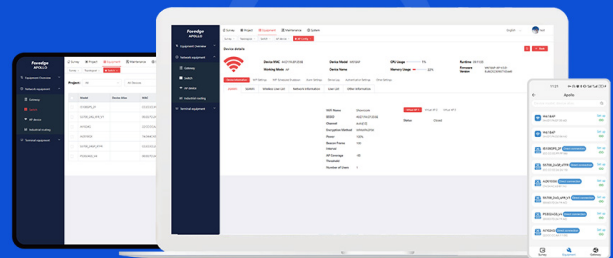
HIGH END CHIPS

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	S7802 Specification
Network Interface	● 48 Gigabit optical ports ● 24 Gigabit electrical ports, 8 Combo electrical ports ● 8 Gigabit SFP+ optical ports ● 1 RJ45 console port, 1 RJ45 management port
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: 2.56 Tbps ● Packet forwarding rate: greater than 1000 Mpps ● MAC address table: 32K ● Port cache: 24 Mb ● Forwarding mode: Store and Forward

LED indicator	● Link/Act indicator light ● Power indicator light ● SYS indicator light
Power/Fan	● Input power: AC 100-240V / 50-60Hz ● Dual power supply redundant input
Dimensions (LxWxH)	● 440mm×320mm×88mm
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 RIPng

	Support IPv6 dynamic routing OSPFv3
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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	S7802
Series	10G LAY3 Series