

S5700-48G-4TFR 10G Uplink 48 Port Gigabit Layer 3 Management Switch



- 48 10/100/1000Mbps RJ45 port
- 4 10G SFP+ fiber port
- 1 Console port
- High end chips with more stable and powerful performance
- Supports one-stop management on the Apollo cloud platform
- Support cloud platform for resource visualization management of switches and attached PD devices, making operation and maintenance management simpler



Description

Overview

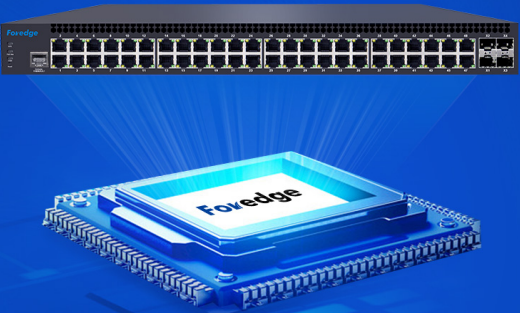
The product adopts a new generation of high – performance hardware and software platform,provides flexible and cost – effective full-gigabit access and uplink ports



Switch backplane bandwidth 176Gbps	Packet forwarding 252Mpps	switch port 48 10/100/1000Mbps RJ45 pory (POE)
Working Humidity 10% ~ 90% RH nun-condensing	Dimensions (W × D × H) 440mm×320mm×44mm	4 10GSFP+ fiber port 1 Console port

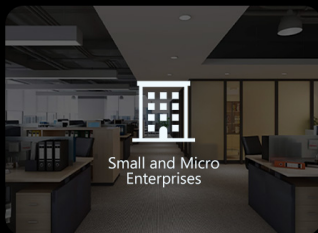
S5700-48G-4TFR

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



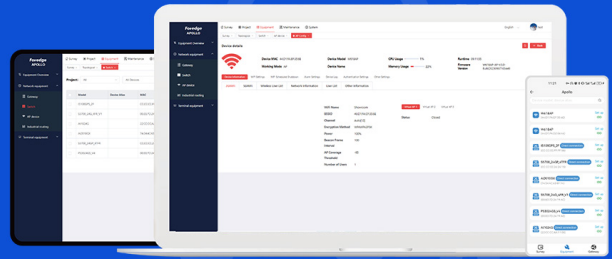
HIGH END CHIPS

High end chips with more stable and powerful performance

A close-up photograph of a large, square integrated circuit (chip) mounted on a circuit board. The word "Foreedge" is printed in white on the top surface of the chip.

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

Hardware Specifications	
Network Interface	● 48 10/100/1000Mbps RJ45 pory (POE) ● 4 10GSFP+ fiber port ● 1 Console 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、IEEE 802.3af、IEEE 802.3at
Performance Specifications	● bandwidth : 176Gbps ● Packet forwarding rate : 130.9Mpps ● MAC addres : 16K ● port cache : 12Mb ● Forwarding mode: store and forward
LED indicator	● 52 Link/Act indicator ● 48 PoE indicator ● 1 Power indicator ● 1 SYS indicator
POE pin	● 1/2 (+) , 3/6 (-)
Power	● Input : AC 100-240V/50-60Hz ● Single port max power: 30W ● Total power : 360W
Dimensions (LxWxH)	● 440mm×320mm×44mm
Environmental Specifications	● Operating temperature : 0°C~40°C ● Storage temperature : -40°C~70°C

	● Working humidity : 10%~ 90% RH non condensing ● Storage humidity : 5%~90% RH non condensing
Safety regulations	● CE/ROHS/FCC
Software Specifications	
Protocol standard	IEEE 802.3: Ethernet media access control (MAC) 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 (optical fiber) IEEE 802.3ad:standard method of link aggregation IEEE 802.3x:flow control IEEE 802.1p:LAN layer 2 qos/cos protocol related to 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 IEEE 802.3af&at
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
Software Specifications	
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	Comply IEEE 802.1d standard

address	Support MAC address automatic learning and aging
table	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 SupportCPU Protection function
PoE management	Support PoE power limit Support PoE chip status check Support setting PoE port priority Support setting PoE power supply time period Support intelligent power supply
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
Software Specifications	
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
	Support Static convergence

Link	Support Dynamic convergence
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	S5700-48G-4TFR
Series	10G LAY3 Series, 10G POE&Ethernet REALTEK Chipset