



S6700-48GXP-4TF-2QF 100G Uplink 48-Port 2.5G L3 Managed PoE Switch(Based On SONIC)

- 48 * 1000M/2.5G RJ45 port, 4*10G, 2 * 100G QSFP28 fiber port
- PoE budget : 1200W, Support single port Max. 90W
- Dual power redundant input
- Multiple network security strategies, real-time monitoring, ensuring continuous network robustness
- Multiple network management methods for simple and easy network maintenance

Description



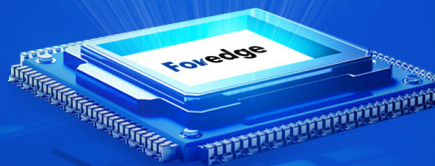
Overview

It provides cost- effective 2.5G access and 100 Gigabit uplink ports

Switch backplane bandwidth 880Gbps	Packet forwarding 630Mpps	switch port 48 * 1000M/2.5G RJ45 port
Working Humidity 10% ~ 90% RH nun-condensing	Dimensions (W × D × H) 440mm × 320mm × 44mm	4 * 10G SFP+ fiber port
		2 * 100G QSFP28 fiber port

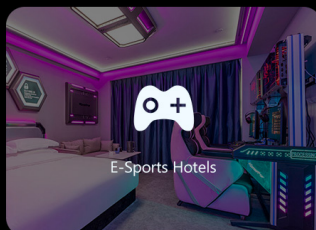
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100G Uplink 48-Port 2.5G L3
Managed PoE Switch
(Based on SONIC)



APPLICABLE SCENARIOS

It is widely used in High-End Cyber Cafes, E-Sports Hotels, and High-Speed Enterprise Network.



PERFECT SECURITY MECHANISM



HIGHLIGHT FEATURES

48 * 1000M/2.5G RJ45 port,
4 * 10G SFP+ fiber port , 2 * 100G QSFP28 fiber port



630MPPS

Packet forwarding: 630Mpps



10%~90% RH

WORKING HUMIDITY:
10%~90% RH non condensing



Specifications

Hardware Specifications

Network Interface

- 48*1000M/2.5G RJ45 port
- 4*10G SFP+fiber port

	●2*100G QSFP28 fiber port ●1 Console port,1 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,IEEE 802.3 af,IEEE 802.3 at,IEEE 802.3 bt
Performance Specifications	●bandwidth:880Gbps ●Packet forwarding rate:540Mpps ● MAC address:96K ·port cache:9Mb ● DRAM:2GB ● Flash:4GB ●Forwarding mode:store and forward
LED indicator	●48*1000M/2.5G Link/Act indicator,PoE indicator ●4*10G SFP+Link/Act indicator ●2*100G QSFP28 Link/Act indicator ● 2 Power indicator ●1 SYS indicator
Power	●Input:AC 100-240V/50-60Hz ●PoE budget:1200W ●Support single port Max.90W ● Dual power redundant input
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:VLANBridge 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
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 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 V1V2 SupportIP-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
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 v1N2 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	SupportIPv6 Ping、 IPv6 Tracert、 IPv6 Telnet Support IPv6 SSH 、 IPv6 SSL
Network management	Support SONIC Operation system Support WEB management(HTTP、 HTTPS、 SSL V3 Support CLI(Telnet、 SSH V1N2、 local serial port) Support SNMP V1N2V3 Support RMON V1V2 Support LLDP device discovery

	Support NTP time synchronization
	Support DNS Client
	Support CPU Monitoring,memory monitoring
	Support System log,classification waming
	Support Ping、 Tracert Detection,cable detection
	Support Apollo cloud platform one-stop management and maintenance

Additional information

Models	S6700-48GXP-4TF-2QF
Series	2.5G SONIC Series