

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

S6700-48GXP-4TF-2QF

Product Brochure

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Foredge

Product introduction

S6700-48GXP-4TF-2QF is a three-layer managed POE switch designed specifically for security transmission and WIFI coverage. The maximum power of a single port meets the 90W BT standard and can meet the POE power supply needs of various types of devices such as WIFI AP&bridge, IP camera, IP phone, etc. The product adopts a new generation of high-performance hardware and is equipped with the operating system of SONIC(Software for Open Networking in the Cloud) which is an open-source network operating system, aiming to provide a highly available, scalable, and easy to manage network architecture for cloud computing and data centers. It provides cost-effective 2.5G access and 100 Gigabit uplink ports. It supports three-layer routing protocols, complete security protection mechanisms, comprehensive ACL/QoS policies, and rich VLAN functions, making it easy to manage and maintain, meeting users' networking needs for easy management, high security, and high-density network equipment. It is an ideal choice for various commercial network applications.



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 	
	 bandwidth: 880Gbps 	
	 Packet forwarding rate: 540Mpps 	
Performance Specifications	MAC address: 96K	
	● port cache: 9Mb	
	• DRAM: 2GB	
	• Flash: 4GB	
	 Forwarding mode: store and forward 	
	 48 * 1000M/2.5G Link/Act indicator, PoE indicator 	
LED 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	
	 Operating temperature: 0°C~40°C 	
Environmental	● Storage temperature: -40°C ∽ 70°C	
Specifications	 Working humidity: 10%~ 90% RH non condensing 	
	 Storage humidity: 5% ~90% RH non condensing 	
Safety regulations	• CE/ROHS/FCC	

Software Specifications:		
Based on Foredge Networking Operation System (RunOS)		
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:		
Based on Fored	ge Networking Operation System (RunOS)	
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	
	Password protection	
	Support restricting user access based on port number, IP address and	
	MAC address	
	Support HTTPS、SSL V3、TLS V1、SSH V1/V2	
Safety features	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	SupportL2(Layer 2) ~ L4(Layer 4) packet filtering function	
control(ACL)	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:

Based on Foredge Networking Operation System (RunOS)		
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	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 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	
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