

S2648P-4X 10G Uplink 48 Ports Gigabit L3 Management Ethernet POE switch



Product Description

52 Port 10G Uplink 48 Ports Gigabit L3 Management Ethernet POE switch, provides 48* 10/100/1000M POE Ethernet Ports, 4* 10G SFP+ Ports, 1* console Port, 1* USB Serial Port. With perfect security control policy and CPU Protect Policy, it can improve fault tolerance and ensure the stable operation of the network and load balance of links. The switch supports automatic DoS attack defense, SNMP, IEEE 802.1, STP, RSTP, and link aggregation. With advanced security features and advanced quality of Service (QoS), it can be used as a core, distribution or access layer switch with high-end port density, ease of management, it is an ideal choice for a variety of business networking applications.

Main Feature

Support IEEE 802.1d, IEEE 802.1w, IEEE 802.1s, IEEE 802.1p, IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3ae standard;

L3 management, support DHCP Server, QoS, ACL Control, SNMP V1/V2/V3, IGMP Snooping v1/v2;

Support STP/RSTP/MSTP (ERPS), Support loop detection and self-healing, remote loop back monitoring and control (802.3ah OAM);

Support multiple VLAN divisions, MAC VLAN, protocol VLAN, and Private VLAN;

Support IP address +MAC address +VLAN+ port binding, DHCP Snooping, IP source and DAI protection;

Support IPV4/ IPV6, RIP, OSPF

Surge Protection: Common mode $\geq 6KV$, ESD: Contact $\geq 6KV$, air $\geq 8KV$;

Support WEB, TELNET, CLI, SSH, SNMP, RMON management;

Support IEEE802.3at (30W) and IEEE802.3bt (90W);

Support PoE watchdog, PoE Port power supply, Power configuration and PoE time management.

Application Environment

Metro Optical Broadband Network: Data network operators such as telecommunications, cable TV, and network system integration,etc.

Broadband private network: Suitable for financial, government, oil, railway, electric power, public security, transportation, education and other industries.

Multimedia transmission: Integrated transmission of images, voice and data, suitable for remote teaching, conference TV, videophone and other applications

Real-time monitoring: Simultaneous transmission of real-time control signals, images and data

CHARACTERISTICS

I/O Interface	
Power Input	AC100-240V/50-60Hz
Ethernet	48* 10/100/1000Mbps POE Ports (Ports 1-4 support BT Power Supply) 4* 10G SFP+ Port 1* RJ45 Console Port 1* USB serial Port
Performance	
Bandwidth	176Gbps
Packet Forwarding Rate	131Mpps
Buffer Memory	512MByte
Flash Memory	32MByte
DDR SDRAM	16Mbit
MAC Address	32K
Jumbo Frame	12Kbytes
VLANs	4096
MTBF	100000 Hours
Standard	
Network Protocol	IEEE802.3 Ethernet MAC Protocol

	<p>IEEE802.3u 100BASE-TX Fast Ethernet</p> <p>IEEE 802.3ab 1000BASE-T Gigabit Ethernet</p> <p>IEEE 802.3z 1000BASE-X Gigabit Ethernet (optical fiber)</p> <p>IEEE 802.3ae 10G Ethernet</p> <p>IEEE802.3x Flow Control</p> <p>IEEE 802.3az Energy-efficient Ethernet</p> <p>IEEE 802.3ad Standard method for performing link aggregation</p> <p>IEEE 802.1AB LLDP/LLDP-MED (Link Layer Discovery Protocol)</p> <p>IEEE 802.1D Spanning Tree Protocol(STP)</p> <p>IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)</p> <p>IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)</p> <p>IEEE 802.1Q (VLAN Bridge Operation)</p> <p>IEEE 802.1p (VLAN Label)</p> <p>IEEE 802.1X Client/Server Access Control and Authentication Protocol</p>
POE Standard	<p>IEEE802.3af (15.4W).</p> <p>IEEE802.3at (30W),</p> <p>IEEE802.3bt (90W)</p>
Industry Standard	<p>EMI: FCC Part 15 CISPR (EN55032) class A</p> <p>EMS: EN61000-4-2 (ESD),</p> <p>EN61000-4-4 (EFT),</p> <p>EN61000-4-5 (Surge)</p>
Network Medium	<p>10Base-T : Cat3, 4, 5 or above UTP(≤100m)</p> <p>100Base-TX : Cat5 or above UTP(≤100m)</p> <p>1000Base-TX : Cat5 or above UTP(≤100m)</p>
Certification	
Safety Certificate	CE, FCC, RoHS
Environment Standard	
Working Environment	Working Temperature: -10~50°C

	<p>Storage Temperature: -40~70°C</p> <p>Working Humidity : 10%~90%, non-condensing</p> <p>Storage Temperature: 5%~90%, non-condensing</p>
Function Indicator	
Indicator	PWR (Power Indicator), SYS (system Indicator), Link (Link Indicator), ACT (ACT Indicator)
PWR	<p>On: Powered On</p> <p>Off: Powered Off</p>
SYS	<p>On: System On</p> <p>Flashing: System Off or Failed</p>
Link/ACT	<p>On: Link Connecting</p> <p>Flashing: Data Transmitting</p> <p>Off: Link Off</p>
Physical Specification	
Structure Size	<p>Product Dimensions: 440*360*44.5mm</p> <p>Package Dimensions: 580*440*120mm</p> <p>Product N.W: 5.30KG</p> <p>Product G.W: 6.58KG</p>
Packing Info	<p>Carton Dimensions: 600*460*260mm</p> <p>Packing Quantity: 2Pieces</p> <p>Packing weight:14.2 KG</p>
Power Voltage	<p>Working Voltage: AC100-240V 50/60Hz</p> <p>Power Supply: 52V 11.5A/ 12V 6A</p>
Power Consumption	<p>POE: POE Total Power<600W</p> <p>Power Consumption: Machine<67.5W</p>
Package List	Switch: 1 set; instruction manual: 1 set; certificate of quality: 1 set; power cord: 1 set; serial cable: 1 set; mounting ear: 1 pair

Software Function

Basic Function	Support hardware watchdog, factory reset, system and port LED
	Support global information, statistical information, log information
	Support User management, alarm management, configuration management
	Support Port rate, duplex, flow control, maximum frame length configuration
	Support Port mirroring, port speed limit, port energy saving
PoE Function	Support PoE time management
	Support PoE automatic monitoring and watchdog
	Support PoE Port power supply and power configuration
Layer 3 Interface	Support Layer 3 Interface
	Support IPv4, IPv6 address Configuration
	Support ARP Configuration
	Support ND Configuration
Layer 3 Routing	Support IPv4 static routing
	Support IPv6 static routing
	Support RIP V1/V2
	Support OSPF
DHCP	Support DHCP server
	Support DHCP Relay
	Support DHCP Snooping
VLAN	Support 4K VLAN

	Support 802.1Q VLAN, based on port VLAN
	Support Access, Trunk, Hybrid VLAN mode
	Support GVRP (VLAN registration protocol)
	Support MAC VLAN, IP VLAN
	Support Voice VLAN
MAC address	Support MAC address automatic learning and aging
	Support Static, dynamic, filtered address table
Security Feature	Password protection
	Support Restrict user access based on port number, IP address, MAC address
	Support HTTPS, SSH V1/V2
	Support VLAN-IP-MAC-PORT binding
	Support ARP detection, IP source protection, DoS protection
	Support DHCP Snooping, DHCP Attack protection
	Support 802.1X Certification
	Support AAA (Authentication, Authorization, Accounting), Support RADIUS protocol, TACASC+
	Support Port security, port isolation
Access Control	Support L2(Layer 2) ~ L4(Layer 4) Packet filtering function
	Support Port mirroring, flow rate limiting, QoS remarking
QOS	Support 8 ports queues
	Support Port priority, 802.1P priority, DSCP priority
	Support Port priority, 802.1P priority, DSCP priority
STP	Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) and MSTP(IEEE 802.1s)

	protocol
	Support Multi-instance, Support Aggregate interface
	Support BPDU protection
Multicast	Support IGMP v1/v2/v3 Snooping
	Support MLD v1/v2 Snooping
	Support Layer 2 multicast fast leave mechanism, querier
	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 storm suppression
	Support unknown unit-cast suppression
Loop Protection	Support loop protection
Link Aggregation	Support Static Aggregation
	Support LACP Dynamic Aggregation
	Support based on IP, MAC, mixed load-balancing modes
	Maximum support 8 aggregation groups (8 ports per aggregation group)
IPv6	Support IPv6 Ping, IPv6 Traceroute, IPv6 Telnet
	Support IPv6 SSH
	Support IPv6 HTTP, IPv6 HTTPS
Management & Maintenance	Support WEB Management (HTTP、HTTPS)
	Support CLI (Telnet, SSH V1/V2, Local serial port)
	Support SNMP V1/V2/V3
	Support RMON V2

	Support LLDP Device discovery
	Support SNTP Time synchronization
	Support CPU Monitoring, Memory Monitoring
	Support System log, classification warning
	Support Ping, Trace route detection, cable detection