



S5710-48TP4SX | L3 Managed Ethernet Switch

Product Datasheet : Version 1.0



Product Overview

The S5710-48TP4SX switch is a layer 3 Ethernet switch, which can meet the needs of cost-effective Gigabit access (POE, High-power POE Output 760W, single port 30W) and 10 Gigabit uplink for enterprise networks and operator customers. S5710-48TP4SX uses a high-performance low-power network processor, provides Gigabit line-speed forwarding performance, supports green Ethernet line sleep capability, has the lowest power consumption of the same-level equipment in the industry, supports powerful QoS and ACL functions, and supports IP+MAC+ Security features such as port binding support service flow classification and packet priority marking. Support static data packet sampling, SFLOW function, support multi-port mirroring analysis function, support static and flexible QinQ function, support strategy-based IPV4/6 unicast routing, support Flexible forwarding strategy

Device Brief Information

	S5710-48TP4SX • 48*10/100/1000M Base-T RJ45 (PoE) • 4*1000M Base-X SFP/10G SFP+ • PoE budget: 760W (802.3af/at) • AC power supply • 19" Rack-mount (440*290*44mm)
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Key Features

Carrier-level equipment stability

- Based on Linux operating system, support IPv4/IPv6 dual protocol stack platform
- Support multiple link redundancy and network redundancy protocols such as STP/RSTP/MSTP/LACP

Perfect safety mechanism

- Support link protection functions FlexLink, LACP
- Support remote loop detection function
- Support remote user authentication based on Tacacs+, Radius, and Local user authentication

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Powerful QoS capabilities

- Support port speed and flow speed limit function
- Support classification based on service flow and Qos flow control function
- Support queue scheduling algorithms such as SP/WRR/SP+WRR
- Support port-based and service flow-based mirroring functions

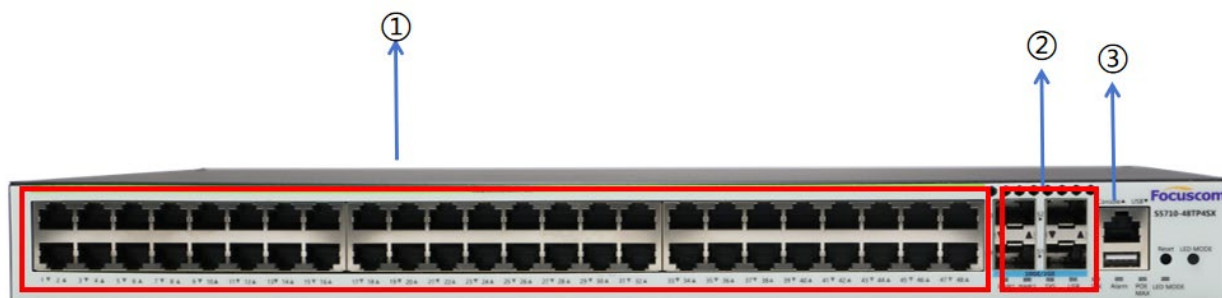
Rich management protocols

- Support easy-to-use network management function
- Support CLI based on RS232 serial port, Telnet and SSHv2
- Support WEB-based configure operation management, support SNMP V1/V2/V3
- Support remote upgrade or equipment through FTP and TFTP

Hardware Specifications

Attributes	S5710-48TP4SX
Port	48*10/100/1000M Base-T RJ45 (PoE); 4*1000M Base-X SFP/10G SFP+
Chip Solution	RTL 9311
Exchange Capacity	176Gbps
Packet Forwarding Rate	130.944Mpps
MAC Address	32K
Packet Buffer	16Mbit
Multicast	4K
Route	12K
ARP	8K
Memory and Storage	Memory: 512MB; Storage: 32MB
Power	AC: 100 ~ 240V 47/63Hz;
PoE Port	1~48 port (IEEE 802.3af/at)
PoE Budget	760W
Power Consumption	Idle≤35W Full load≤820W
Weight	≤5.9kg
Dimensions (W*D*H)	440*290*44mm
Environment	Working Temperature: -10°C ~ 45°C Storage temperature: -40°C ~ 70°C Relative Humidity: 5%~95%, non-condensing

Panel view



① 48 * 10/100/1000M Base-T ② 4 * 1000M Base-X SFP/10GE SFP+ ③ Console Port

LED indicator

LEDs/Buttons	Color	Function	Description	
PWR	Green	Power status	ON	The AC power module is normal.
			OFF	The AC power module faulty or unavailable.
SYS	Green	System running status	Green OFF	The device is not running or power off.
			Green Flash	The device is running normally.
GE/SFP Port	Green	Port status	ON/Flash	The link is properly connected (link up) and in action Working.
			OFF	The link is interrupted (link down).
POE	Green	PD status	ON	The POE port is connected to the PD device and starts to supply power.
			OFF	No PD is connected to the device.

Plug-In Units

Power Supply Unit (PSU)

The S5710 series devices are equipped with a built-in AC power module and provide an AC power port on the back of the device.

The below shows the electrical characteristics of the switch:

Characteristic	S5710-48TP4SX
Nominal AC power supply	AC: 100 ~ 240V; 47/63Hz

FAN Unit

The fans of the device run according to the power of the device environment. A built-in fan group is installed on the side of the chassis. The fan group can be as follows:



Characteristic	FAN
S5710-48TP4SX	4*FAN

Software Specifications

Attributes	S5710-48TP4SX
VLAN	Support 4K VLAN Support VLAN based on port, MAC and protocol Support dual Tag VLAN Access/Trunk/Hybrid
Ethernet	Ethernet interface operating modes Ethernet interface operating rates Jumbo Frame Port enable/disable Port based storm-control Unknown-unicast/unknown-multicast/broadcast storm-control Port-isolate
MAC	Support static MAC address setting Support black hole MAC address filtering Support port MAC address limit Automatic learning and aging of MAC addresses
ARP	Static and dynamic ARP entries Aging of ARP entries ARP-Proxy
Port Control	Support two-way bandwidth control Support port storm suppression Support 9K Jumbo ultra-long frame forwarding
Port Aggregation	Support static link aggregation Support dynamic LACP Each aggregation group supports a maximum of 8 ports LAG load balance (SIP/DIP/SMAC/DMAC)
Mirroring	Supports multi-port mirroring analysis Service flow-based image analysis
ACL	Support standard and extended ACL Support ACL policy based on time period Provide MAC, IP, L4 port and port level security control functions

QoS	Traffic classification based on COS/DSCP (simple classification) Traffic classification based on ACL (complex classification) Traffic classification based on inner header of the tunnel packets Queue scheduling Remark the priority fields (COS/DSCP) of the packet based on ACL Traffic policing based on direction(in/out) of Port Traffic policing based on direction(in/out) of VLAN Traffic policing based on direction(in/out) of flow Traffic policing based on direction(in/out) of aggregated flow SP (Strict Priority) scheduling WRR (Weighted Round Robin) scheduling SP+WRR mixed scheduling
Safety	Support Radius & TACACS+ authentication Support port isolation Support broadcast message rate suppression Support IP Source Guard Support ARP flood suppression and ARP spoofing protection
Layer 3	Support ARP learning and aging Support IPv4static route Support dynamic route RIP/OSPF Support IPv4/IPv6 dual-stack platform Support CLI、Telnet、WEB、SNMP V1/V2/V3、SSHv2 mode
Terminal Services	Configurations through CLI Console Terminal service
Maintenance	Per-module Debug features CPU usage display and alarm Memory usage display and alarm User operation logs Management of logs, alarms, and debugging information Manual reboot Reboot Information logging Ping IPv6 Ping Traceroute To CPU/From CPU packets statistics Time configuration Timezone
System Security	SSHv1/v2 RADIUS TACACS+ MAC/IP ACL Port/VLAN/L4-Port ACL IP Source Guard Limitation on MAC address learning on interface Rate limit CPU Traffic Limit CLI/WEB/SNMP/Telnet/SSH filtering
Spanning-Tree	Rapid Spanning-Tree Protocol Multi-instance Spanning-Tree Protocol
Network Management	DHCP Server DHCP Relay SNTP Simple Network Time Protocol) LLDP
Configuration Management	Inband management interface and configuration Outband management interface and configuration Privileged user priority and privileged commands Network management based on SNMPv1/v2c

	Public and private MIB Public and private Trap Configuration and management based on WEB Restore factory default configuration
File system	Upload and download files through FTP or TFTP
System Management	Support FTP, TFTP file upload and download Support SNMP Support LLDP neighbor device discovery protocol Support Ping and Traceroute Supports configuration management based on WEB pages
Upgrade	Upgrade with the local image file Upgrade with the remote TFTP server Online upgrade Uboot

Connector Specifications

The switch provides standardized interfaces, thus facilitating rapid and trouble-free integration into the existing network infrastructures.

Network Interfaces

The switch optical interface ports for SFP/SFP+ modules and below table is available SFP/SFP+ module list.

Index	SFP/SFP+ Module Description
1	- Wavelength: 850 nm / Distance: 550 m / Mode: multi-mode - Connector: LC / Data rate: 1.25Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C - 70 °C
2	- Wavelength: 1310nm / Distance: 5km / Mode: single-mode - Connector: LC / Data rate: 1.25Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C - 70 °C
3	- Wavelength: 1310 nm / Distance: 10 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C - 70 °C
4	- Wavelength: 1310 nm / Distance: 15 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C - 70 °C
5	- Wavelength: 1310 nm / Distance: 20 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core

	- Operating Temperature: 0 °C - 70 °C
6	- Wavelength: 1310 nm / Distance: 40 km / Mode: single-mode - Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core - Operating Temperature: 0 °C - 70 °C
7	- Wavelength: 850nm / Distance: 300m / Mode: Multimode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature: 0°C ~ 70 °C - 10GBASE-SR (10G)
8	- Wavelength: 850nm / Distance: 300m / Mode: Multimode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature: 0°C ~ 70 °C - 1000BASE-SX (1G), 10GBASE-SR (10G)
9	- Wavelength: 1310nm / Distance: 10Km / Mode: Single mode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature: 0°C ~ 70 °C - 10GBASE-LR (10G)
10	- Wavelength: 1550nm / Distance: 40Km / Mode: Single mode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature: 0°C ~ 70 °C - 10GBASE-ER (10G)
11	- Wavelength: 1310nm / Distance: 70Km / Mode: Single mode - Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core - Operating Temperature: 0°C ~ 70 °C - 10GBASE-ZR (10G)



Purchase Info

Product Name	Product Description
S5710-48TP4SX	48*10/100/1000M RJ45, 4*1000M Base-X SFP/10G SFP+ IEEE 802.3af/at, PoE Budget: 760W

Contact Information

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