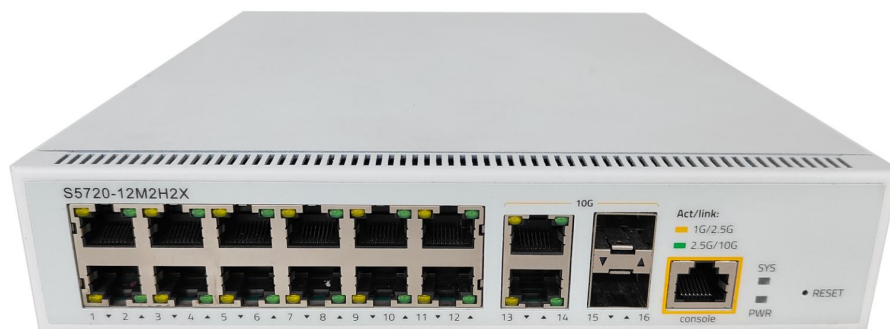




Focuscom



S5720-12M2H2X

L3 Managed Ethernet Switch

<https://en.focuscom.com.cn>

Product Overview

The S5720-12M2H2X is a Layer3 2.5 Gigabit Ethernet switch designed to meet the needs of cost-effective 2.5G access and 10 Gigabit uplink for enterprise networks and telecom operators. It owns a high-performance, low-power network processor, providing Gigabit line-speed forwarding performance. Also supports green Ethernet line sleep capability, and makes it one of the lowest power-consuming devices in its class. The switch includes robust QoS and ACL functionalities and supports security features like IP+MAC+port binding for service flow classification and packet priority marking.

Additional features include static packet sampling, SFLOW capabilities, multi-port mirroring analysis, and support for both static and flexible QinQ, policy-based IPv4/6 unicast routing, and flexible forwarding strategies.

Device Brief Information

	S5720-12M2H2X • 12* 100/1000M/2.5G Base-T RJ45 port • 2* 1G/2.5G/5G/10G Base-T RJ45 port • 2*10G SFP+ • 250×210×44mm (W*L*H) • AC: 100 ~ 240V, 47~63Hz
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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

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

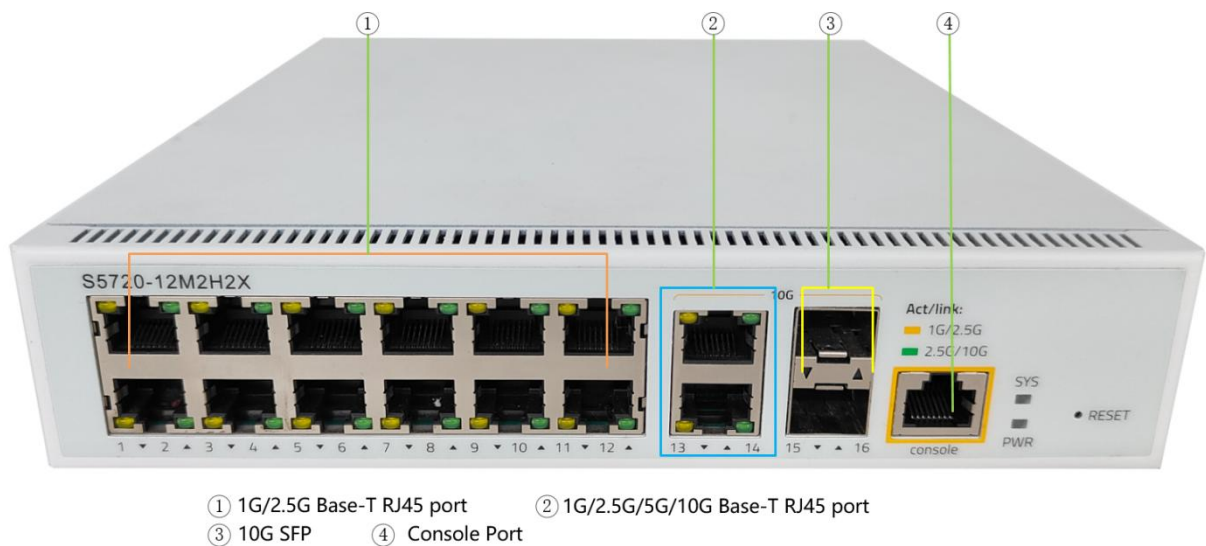
- Support easy-to-use network management function
- Support CLI based on RS232 serial port, Telnet and SSHv2
- Support WEB-based configure operation management, support SNMP V1/V2/V3
- Support remote upgrade or equipment through FTP and TFTP

Hardware Specifications

Attributes	S5720-12M2H2X
Port	12*2.5GBase-T RJ45; 2*1G/2.5G/5G/10G RJ45;2*10G SFP+
Chip Solution	Realtek9302C
Switching Capacity	160Gbps
Forwarding Rate	119Mpps
MAC Address	16K
Packet Buffer	12Mbit
Multicast	1K
ARP	2K
Route	512
Memory and Storage	Memory: 512MB, storage: 32MB
Power Supply	AC: 100~240V, 47~63Hz
Power Consumption	Full load ≤30W
Dimensions	250×210×44mm (W*L*H)
Temperature	Working Temperature: -20°C~ 50°C Storage Temperature: -40~70°C
Relative Humidity	Relative Humidity: 5%~95%, non-condensing

Panel view

S5720-12M2H2X



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 Works in 2.5G/10Gigabit mode.
			OFF	The link is interrupted (link down).
	Yellow		ON	Port negotiation works in 1G/2.5G mode

Plug-In Units



Power Supply Unit (PSU)

The device has a built-in power module, and the power port is located at the rear of the device.
The below shows the electrical characteristics of the switch:

Characteristic	Power Supply
AC	AC: 100 ~ 240V, 47~63Hz

FAN Unit

The fans of the device operate according to the power of the device environment. The chassis has two built-in fans for heat dissipation.

Characteristic	FAN
S5720-12M2H2X	2*FAN

Software Specifications

Attributes	S5720-12M2H2X
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 Unknow-unicast/unknow-multicast/broadcast storm-control Port-isolate
Stackable	Support Stacking of 8 units through a single IP address Support Unified management Support Redundancy mechanism Support High speed interconnect
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 SNTP 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
S5720-12M2H2X	12*100/1000M/2.5G Base-T RJ45 port; 2*1G/2.5G/5G/10G Base-T RJ45 port; 2*10G SFP+; Single AC Power Supply



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