



NEXΛVM



# S5710 Series

## L3 Managed Ethernet Switch

## Product Overview

The S5710 series switch is a layer 3 Ethernet switch, owns 10 gigabit uplinks for enterprise networks and operator customers, which can also meet the needs of cost-effective gigabit access. This device uses a high-performance & low-power network processor, provides gigabit line-speed forwarding performance, supports green Ethernet line sleep capability, which has the lowest power consumption of the same-level equipment in the industry as well. Supports powerful QoS and ACL functions, IP+MAC+ Security features such as port binding support service flow classification and packet priority marking.

The product includes an elastic stacking function, which allows multiple devices to be virtualized into a single logical entity. This not only facilitates the expansion of ports and switching capacity but also enables unified management, upgrades, and maintenance across devices. It can also support static data packet sampling, SFLOW function, multi-port mirroring analysis function, static and flexible QinQ function, strategy-based IPV4/6 unicast routing, and Flexible forwarding strategy.

## Device Brief Information

	<p><b>S5710-12TX</b></p> <ul style="list-style-type: none"> <li>8* 10/100/1000M Base-T RJ45 port</li> <li>4* SFP/10G SFP+ port</li> <li>AC input: 100~240V,50/60Hz</li> <li>11"1U (270*180*44mm)</li> </ul>
	<p><b>S5710-28TX</b></p> <ul style="list-style-type: none"> <li>24* 10/100/1000M Base-T RJ45 port</li> <li>4* SFP/10G SFP+ port</li> <li>AC input: 100~240V,50/60Hz</li> <li>19"1U (440*210*44mm)</li> </ul>
	<p><b>S5710-28TP</b></p> <ul style="list-style-type: none"> <li>24* 10/100/1000M Base-T PoE RJ45 port</li> <li>4* SFP/10G SFP+ port</li> <li>PoE budget: 400W (802.3af/at)</li> <li>AC input: 100~240V,50/60Hz</li> <li>19"1U (440*260*44mm)</li> </ul>
	<p><b>S5710-54TX</b></p> <ul style="list-style-type: none"> <li>48* 100/1000M Base-T RJ45 port</li> <li>6* SFP/10G SFP+ port</li> <li>AC input: 100~240V,50/60Hz</li> <li>DC: 40V ~ 60V</li> <li>19"1U (440*290*44mm)</li> </ul>

## 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

### Stacking Capabilities

- Support Stacking of 8 units through a single IP address
- Support Unified management
- Support Redundancy mechanism
- Support High speed interconnect

### 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

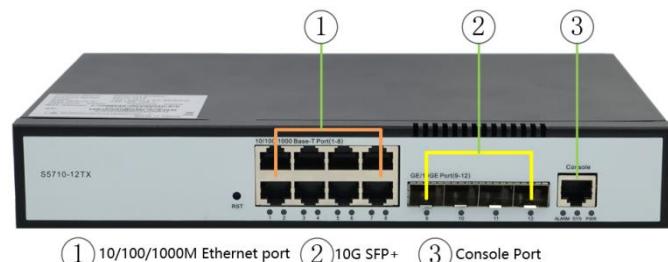
## Hardware Specifications

Attributes	S5710-12TX	S5710-28TX	S5710-28TP	S5710-54TX
<b>Port</b>	8*10/100/1000M/ Ethernet port 4 *10G SFP+	24*10/100/1000M/ Ethernet port 4 *10G SFP+	24*10/100/1000M/ Ethernet port/POE 4 *10G SFP+	48*10/100/1000M/ Ethernet port 6 *10G SFP+
<b>Chipset</b>		RTL9301		RTL9311
<b>Switching Capacity</b>	96Gbps	128Gbps		216Gbps
<b>Forwarding Rate</b>	71.43Mpps	95.24Mpps		160.71Mpps
<b>MAC</b>		16K		32K
<b>Multicast</b>		1K		4K
<b>Packet Buffer</b>		12Mbit		16Mbit
<b>ARP Table</b>		2K		8K
<b>Routing Table</b>		512		12K
<b>PoE Budget</b>	N/A	N/A	415W(af/at)	N/A
<b>Memory and Storage</b>	Memory: 512MB, Storage:32MB			

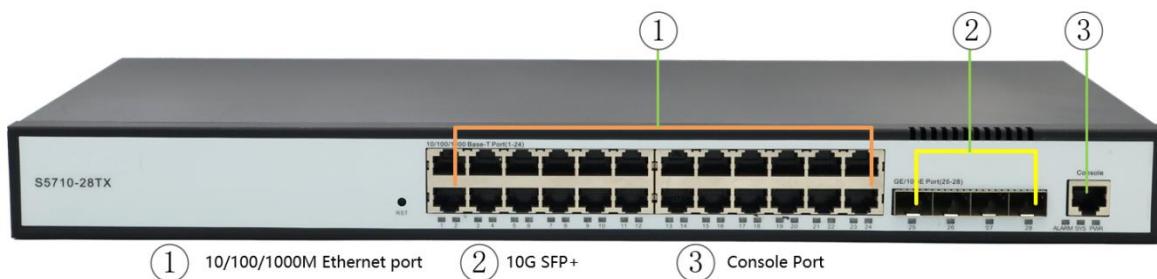
Power Supply	AC: 100 ~ 240V 50/60Hz;			
Power Consumption	Idle ≤10W Full load ≤20W	Idle ≤13W Full load ≤30W	Idle ≤15W Full load ≤450W	Idle ≤25W Full load ≤53W
Weight	1.6kg	2.6kg	4.2Kg	4.2kg
Dimensions (WxDxH)	270X180X44mm	440X210X44mm	440X260X44mm	440×290×44mm
Temperature	Working Temperature: -10°C ~ 50°C; Storage Temperature: -40°C ~ 70°C			
Humidity	Relative Humidity: 5%~95%, non-condensing			

## Panel view

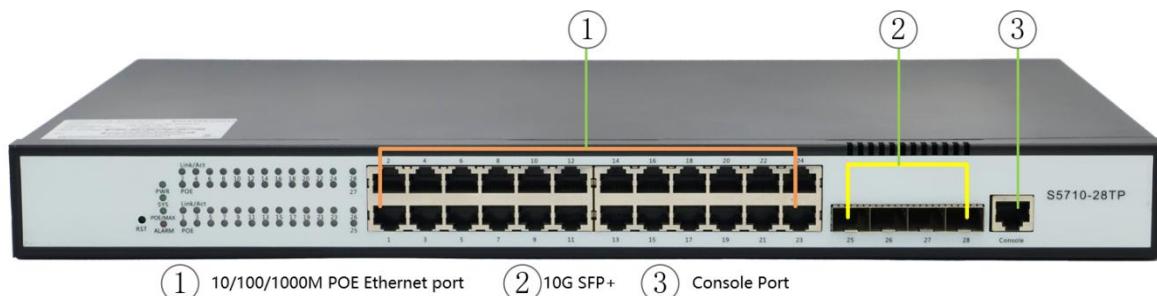
### 1) S5710-12TX



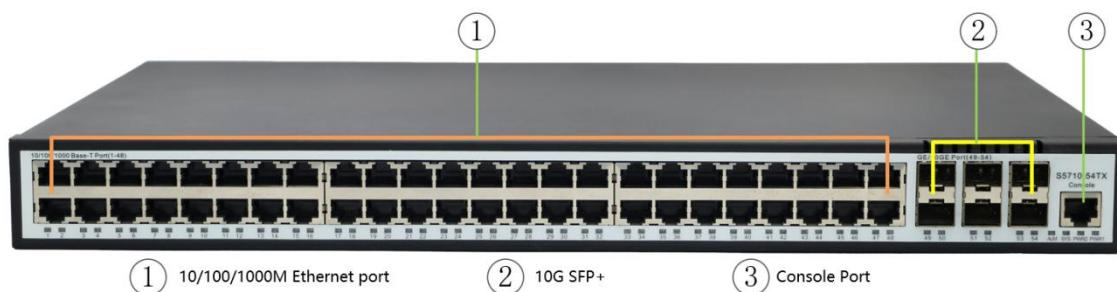
### 2) S5710-28TX



### 3) S5710-28TP



### 4) S5710-54TX



## 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.
ALARM	RED	Hardware state	ON	The fan or power module is abnormal
			OFF	Components working properly.
POE MAX	Green	Power Threshold	ON	Maximum power supplied by POE.
			OFF	The POE power supply indicates the normal range.
GE/SFP Port	Green	Port status	ON/Flash	The link is properly connected (link up) and in action Works in Gigabit mode.
			OFF	The link is interrupted (link down).
	Orange		ON/Flash	The link is properly connected (link up) and in action Works in 10/100Mbps mode.
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 Series
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
S5710-12TX	0*FAN
S5710-28TX	1*FAN
S5710-28TP	3*FAN

S5710-54TX	2*FAN
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## Software Specifications

Attributes	S5710 Series
<b>VLAN</b>	Support 4K VLAN Support VLAN based on port, MAC and protocol Support dual Tag VLAN, Access/Trunk/Hybrid
<b>Ethernet</b>	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
<b>Stackable</b>	Support Stacking of 8 units through a single IP address Support Unified management Support Redundancy mechanism Support High speed interconnect
<b>MAC</b>	Support static MAC address setting Support black hole MAC address filtering Support port MAC address limit Automatic learning and aging of MAC addresses
<b>ARP</b>	Static and dynamic ARP entries Aging of ARP entries ARP-Proxy
<b>Port Control</b>	Support two-way bandwidth control Support port storm suppression Support 12K Jumbo ultra-long frame forwarding
<b>Port Aggregation</b>	Support static link aggregation Support dynamic LACP Each aggregation group supports a maximum of 8 ports LAG load balance (SIP/DIP/SMAC/DMAC)
<b>Mirroring</b>	Supports multi-port mirroring analysis Service flow-based image analysis
<b>ACL</b>	Support standard and extended ACL Support ACL policy based on time period Provide MAC, IP, L4 port and port level security control functions
<b>QoS</b>	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

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

	Network management based on SNMPv1/v2c Public and private MIB Public and private Trap Configuration and management based on WEB Restore factory default configuration
<b>File system</b>	Upload and download files through FTP or TFTP
<b>System Management</b>	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
<b>Upgrade</b>	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	<ul style="list-style-type: none"> <li>- Wavelength: 850 nm / Distance: 550 m / Mode: multi-mode</li> <li>- Connector: LC / Data rate: 1.25Gbit/s / Core type: Dual Core</li> <li>- Operating Temperature: 0 °C - 70 °C</li> </ul>
2	<ul style="list-style-type: none"> <li>- Wavelength: 1310nm / Distance: 5km / Mode: single-mode</li> <li>- Connector: LC / Data rate: 1.25Gbit/s / Core type: Dual Core</li> <li>- Operating Temperature: 0 °C – 70 °C</li> </ul>
3	<ul style="list-style-type: none"> <li>- Wavelength: 1310 nm / Distance: 10 km / Mode: single-mode</li> <li>- Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core</li> <li>- Operating Temperature: 0 °C – 70 °C</li> </ul>
4	<ul style="list-style-type: none"> <li>- Wavelength: 1310 nm / Distance: 15 km / Mode: single-mode</li> <li>- Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core</li> <li>- Operating Temperature: 0 °C – 70 °C</li> </ul>
5	<ul style="list-style-type: none"> <li>- Wavelength: 1310 nm / Distance: 20 km / Mode: single-mode</li> <li>- Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core</li> <li>- Operating Temperature: 0 °C - 70 °C</li> </ul>
6	<ul style="list-style-type: none"> <li>- Wavelength: 1310 nm / Distance: 40 km / Mode: single-mode</li> <li>- Connector: LC / Data rate: 1.25 Gbit/s / Core type: Dual Core</li> <li>- Operating Temperature: 0 °C - 70 °C</li> </ul>
7	<ul style="list-style-type: none"> <li>- Wavelength: 850nm / Distance: 300m / Mode: Multimode</li> <li>- Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core</li> <li>- Operating Temperature: 0°C ~ 70 °C</li> <li>- 10GBASE-SR (10G)</li> </ul>
8	<ul style="list-style-type: none"> <li>- Wavelength: 850nm / Distance: 300m / Mode: Multimode</li> <li>- Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core</li> </ul>

	<ul style="list-style-type: none"> <li>- Operating Temperature: 0°C ~ 70 °C</li> <li>- 1000BASE-SX (1G), 10GBASE-SR (10G)</li> </ul>
9	<ul style="list-style-type: none"> <li>- Wavelength: 1310nm / Distance: 10Km / Mode: Single mode</li> <li>- Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core</li> <li>- Operating Temperature: 0°C ~ 70 °C</li> <li>- 10GBASE-LR (10G)</li> </ul>
10	<ul style="list-style-type: none"> <li>- Wavelength: 1550nm / Distance: 40Km / Mode: Single mode</li> <li>- Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core</li> <li>- Operating Temperature: 0°C ~ 70 °C</li> <li>- 10GBASE-ER (10G)</li> </ul>
11	<ul style="list-style-type: none"> <li>- Wavelength: 1310nm / Distance: 70Km / Mode: Single mode</li> <li>- Connector: LC / Data rate: 10.3125 Gbit/s / Core type: Dual Core</li> <li>- Operating Temperature: 0°C ~ 70 °C</li> <li>- 10GBASE-ZR (10G)</li> </ul>

## Purchase Info

Product Name	Product Description
S5710-12TX	8*10/100/1000M Base-T, 4*1000M Base-X SFP/10GE SFP+, Single Power, Fanless
S5710-28TX	24*10/100/1000M Base-T, 4*1000M Base-X SFP/10GE SFP+, Single Power, 1*FAN
S5710-28TP	24*10/100/1000M Base-T POE, 4*1000M Base-X SFP/10GE SFP+, Single Power, 3*FAN
S5710-54TX	48*10/100/1000M Base-T, 6*1000M Base-X SFP/10GE SFP+, Dual Power, 2*FAN



### \*\*\*\*\* CO., LTD

Add: \*\*\*\*\*

Tel: \*\*\*\*\*

Fax: \*\*\*\*\*

Website: \*\*\*\*\*

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