S6210X Series

8 ports 2.5GE +2 ports 10G SFP+ L2 Web Smart Switch

Product Brief

The S6210X series of web-smart switches are tailored to deliver ultra-fast LAN connectivity.
They boast eight 2.5 Gigabit Ethernet (2.5GE) ports and two 10 Gigabit Small Form-Factor Pluggable Plus (10G SFP+) uplink ports, ensuring robust performance.
Compact design, coupled with simplified installation and configuration procedures, makes them ideal for Small and Medium-sized Enterprises (SMEs), file servers and storage networks, high-definition video surveillance systems, and live streaming studios.
These switches provide the necessary bandwidth and reliability to support high-demand network environments.

Model Select

S6210X

- Web-smart
- 8* 10/100/1000M/2.5G Base-T RJ45 port
- 2* SFP/10G SFP+ port
- Switching capacity: 80Gbps

S6210X-P-105W

- Web-smart
- 8* 10/100/1000M/2.5G Base-T RJ45 port
- 2* SFP/10G SFP+ port
- Switching capacity: 80Gbps
- 1~8 port support PoE (IEEE 802.3af/at)
- PoE budget: 105W

Highlights

Enjoy ultra-fast network speed with 2.5G

The S6210X series are equipped with multi-gig ports supported up to 2.5G and can easily be connected to the latest 2.5G-capable network devices including WiFi 6/6E APs, 5G CPE, 2.5G storage, 4K/8K TV, PC with 2.5G NIC and gaming consoles.

Extra 10G Port to Streamline Large File Transfers

The indepent 2x 10-Gigabit SFP+ port increases the network speed for quicker uploads and downloads through a NAS and server, allowing content creators or self-media individuals to work more efficiently. Large files, such as high-resolution videos or images, can be transferred in significantly less time, saving valuable production hours.

2.5G Super-Fast Speeds Without Re-cabling

You can use your current Cat 5e cables to upgrade your home networking speed from 1Gbps to 2.5Gbps, eliminating the need of any costly re-cabling.

PoE/PoE+ inside

Compliant with the IEEE 802.3at PoE+ and IEEE 802.3af PoE standards. Offers 4-port 30-watt and 8-port 15-watt Gigabit PoE capabilities. Can supply a total power budget of 105 watts to meet the demands of high-powered devices (PDs) and supports intelligent PoE management functions.

Robust 6KV surge protection design

Supports 6KV surge protection (common mode) for ports and the power supply, reducing the risk of Induced lightning damage and ensuring stable operation even under harsh environment.

Typical Application

- Small and medium-sized enterprise
- File servers and NAS(network-attached storage) network
- High-definition video surveillance systems
- Live streaming studio
- High-performance intranet

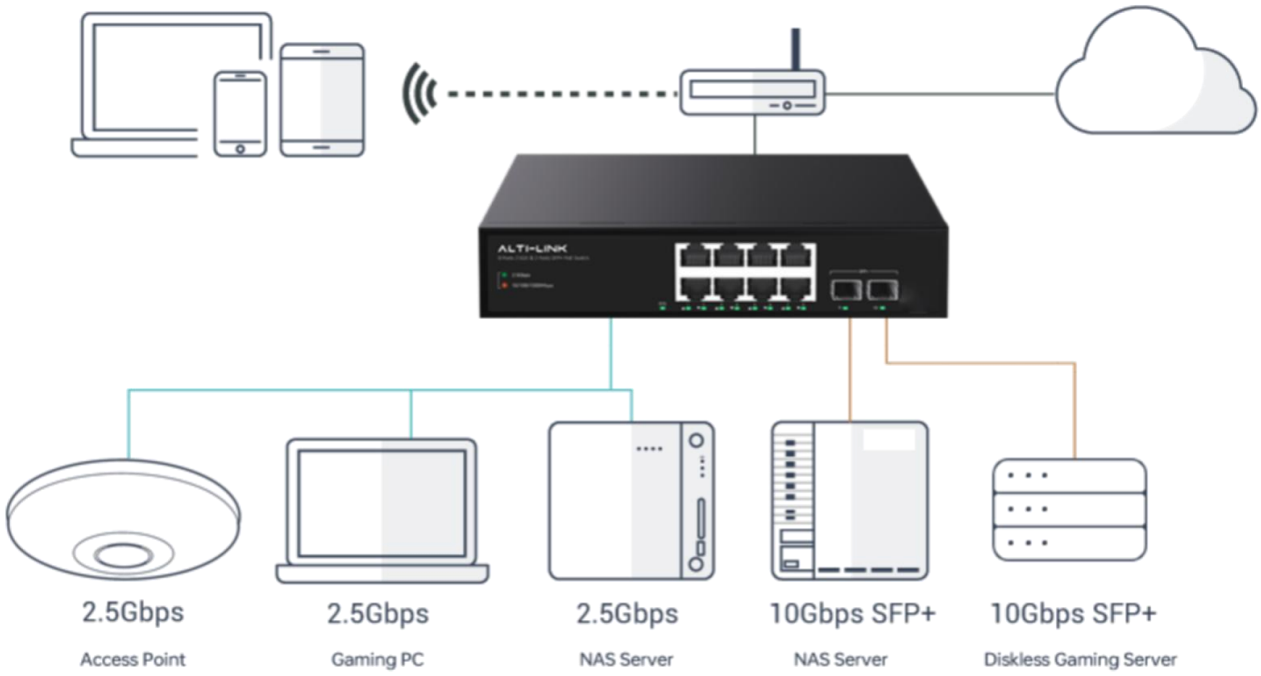

Table-1 Rates supported by twisted pair cables

Cable type	1 Gbps	2.5 Gbps	5 Gbps	10 Gbps
Cat5e UTP	Supported	Supported	/	/
Cat5e STP	Supported	Supported	Supported	/
Cat6 UTP	Supported	Supported	/	-
Cat6 STP	Supported	Supported	Supported	-
Cat6a UTP	Supported	Supported	Supported	-
Cat6a STP	Supported	Supported	Supported	Supported
Cat7	Supported	Supported	Supported	Supported

Specification

Model	S6210X-P-105W	S6210X
Hardware Specification		
Copper port	8x 2.5GbE RJ45 port (PoE)	8x 2.5GbE RJ45 port
Fiber port	2x 10GbE SFP+ ports	2x 10GbE SFP+ ports
Button	Reset	
Chipset	MxL86282S+RTL8238B	MxL86282S
Flash:	32Mb	
PoE Ports	Port# 1~ 8 (IEEE802.3at, IEEE802.3af)	/
PoE Budget	105W	/
PoE pin-assign	Alternative A (Pin 1,2/3,6) for IEEE802.3af, IEEE892.3at	
MAC address Table	16K	
Packet buffer size	8Mbit	
Switching capacity	80Gbps	
Forwarding rate	59.5Mpps	
Jumbo Frame	10KB	
Data Transfer Rate	Ethernet:10 Mbps (half duplex),20 Mbps (full duplex) Fast Ethernet:100 Mbps (half duplex),200 Mbps (full duplex) Giga Ethernet:2000 Mbps (full duplex) 2.5Gigabit Ethernet:5 Gbps (full duplex)	
Power Supply	Input: AC:100-240V,50~60Hz Output: DC 54V=2.2A	Input: AC:100-240V,50~60Hz Output: DC 12V=2A
Power consumption	Max: <140W	Max:<12W
Dimension	200 x 118 x 440 mm	
Cooling System	Fan-less	
Surge Protection	6KV on Ethernet port	
ESD	8KV(Air), 4KV(Contact)	
Temperature	Operating temperature: 0 ~ 40℃ Storage temperature : -40 ~ 70℃	
Humidity	Operating: 10% ~ 90% RH (non-condensing) Storage: 5% ~ 90% RH (non-condensing)	
MTBF	Over 10 Years	

Software Specification		
Layer 2 Function	**Port Mirror**	Copy data received on a selected port to the monitoring port. Copy data received on a selected group of ports to the monitoring port. Copy data transmitted on a selected port to the monitoring port. Copy data transmitted on a selected group of ports to the monitoring port. Copy data received or transmitted on a selected port to the monitoring port. Copy data received or transmitted on a selected group of ports to the monitoring port
	VLAN	VLAN Association: ● Implicit VLAN Association ● Explicit VLAN Association Provide Bridging （VLAN Q-in-Q）supported IEEE 802.1ad 1K Entry Table Extended VLAN tagging VLAN Filtering: ● VID-Only Mode ● PCP-Only Mode ● TCI Mode VLAN Transparent Mode: ● Traffic Flow Classification - Ingress VLAN ID ● Traffic Flow Classification - STAG PCP+DEI and CTAG PCP+DEI ● Traffic Class Mapping Cross-VLAN Functionality
	ACL	● Programmable packet parsing ● 512 entry traffic flow classification table ● 32 concurrent keys with 1k bits in each entry ● Support bit mask and range for some of the keys. Keys include the source port information, packet length, and multiple L2/L3/L4/L4+ packet fields. ● Multiple concurrent policy actions in each entry Destination port(s) assignment (including discard option), port filtering, traffic class assignment, traffic meter assignment, extended VLAN tagging operation assignment, MAC in MAC tunnel assignment, flow counter assignment, OAM handling

		assignment, cross VLAN policy, cross state policy, color assignment, Link Aggregation Group (LAG) assignment, L2 MAC address learning policy, and interrupt policy
	L2 Bridging	• 16K entry VLAN-aware MAC address table • Shared and independent VLAN learning • Layer 2 security: IEEE 802.1X port authentication, MAC address filtering, port locking and spoofing detection, MAC address limiting, and broadcast storm control • Multiple spanning tree protocol • MAC in MAC tunneling (802.1ah), 256 tunnels
	L3 multicast forwarding	• 1K entry VLAN aware IP multicast group table • Any Source Multicast (ASM) and Source Specific Multicast (SSM) • IPv4 IGMPv1/IGMPv2/IGMPv3 and IPv6 MLDv1/MLDv2 with software/firmware involvement
	QoS	• Up to 1 MB packet buffer • Total 128 priority queues, up to eight priority queues per port • Flexible traffic class assignment • Flexible priority marking and re-marking • Flexible color marking and re-marking • Traffic metering on ingress and/or egress traffic srTCM and trTCM,128 meters • Per port and per queue shaping • Strict priority and DWRR scheduling
Management Function	**Operation, Maintenance, and Management**	• Packets and bytes counters per MAC, per port, per virtual interface, and per traffic flow • Packet mirroring (ingress and egress mirroring to a designated port) • Loop detection support with software/firmware involvement • Loop-back support • IEEE 802.1ag and ITU-T Y.1731 Ethernet OAM delay and loss measurement hardware support • LAG support • 32 groups, up to 64 ports or virtual interfaces in a LAG

Ordering Information

Ethernet Switch	
S6210X	L2 Managed 8-port 2.5G Ethernet switch 8* 10/100/1000M/2.5G Base-T RJ45 port and 2* SFP/10G SFP+ port, 1* Fixed AC: 100~240V
S6210X-P-105W	L2 Managed 8-port 2.5G Ethernet PoE switch 8* 10/100/1000M/2.5G Base-T RJ45 port and 2* SFP/10G SFP+ port, IEEE 802.3af/at, PoE budget: 105W, 1* Fixed AC: 100~240V

Related Accessories

Related Accessories	
Optical Fiber Module	10G SFP+ RJ45 30/80Meters 10G SFP+ 850nm LC 300m 10G SFP+ 1310nm MMF LC LRM 2Km DDM 10G SFP+ 1310nm LC 10/20/40Km DDM 10G SFP+ 1550nm LC 40/80/100Km DDM 10G SFP+ BIDI TX1270/RX1330NM LC 20/40/60KM DDM 10G SFP+ BIDI TX1330/RX1270NM LC 20/40/60KM DDM 10G SFP+ BIDI TX1490/RX1550NM LC 80KM DDM 10G SFP+ BIDI TX1550/RX1490NM LC 80KM DDM 10G SFP+ CWDM 1470~1610NM LC 40/80KM DDM EML 10G SFP+ CWDM 1310NM LC 40/60KM DDM 10G SFP+ DWDM C17~C61 LC 40/80/100KM DDM 100GHz 10G SFP+ DWDM H17~H61 LC 40/80KM DDM 50GHz SFP+ 50GHz 96CH DWDM Tunable 80KM LC EML 24dB LC

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