8-Port 10/100/1000/2500T + 1-Port 10G SFP+ Multigigabit Ethernet Switch

An Economical Multigigabit Solution for SMBs and SOHO office

In the past, due to the lack of affordable switches on the market, the high-speed **2.5G** environment was limited to high-end enterprises. Now, PLANET has launched a new **MGS-910X Multigigabit Ethernet Switch**, an economical switch that provides **eight 10/100/1G/2.5GMbps** ports and one **10GBASE-X** SFP+ uplink port, allowing you to enter the 2.5G generation and high-speed network connectivity with a lower budget.

It can automatically identify and determine the correct transmission speed of the connected devices with its 8 multigigabit ports that support **12K** jumbo frame feature. Therefore, the MGS-910X can handle extremely large amounts of data transmission in a secure topology linking to a backbone or high-power servers.

2.5Gbps Bandwidth for High-performance Networking

With the terminal access rates of 802.11ax Wi-Fi 6 and 802.11ac wireless APs reaching as high as 1.2Gbps to 2.6Gbps, Gigabit ports have been unable to satisfy the demand. Supporting 10/100/1G/2.5Gbps capability, the MGS-910X can deliver not only data to 802.11ac wireless APs, but also takes both cost and performance into consideration. Users can use the Cat 5e cable in the existing environment to increase the network speed to 2.5Gbps with an economical budget. Therefore, all devices in the network environment can give full play to their respective advantages.

Physical Port
- Eight 10/100/1000/2500BASE-T RJ45 ports with auto MDI/MDI-X function
- One 10GBASE-X SFP+ port

Layer 2 Features
- Complies with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3ab 1000BASE-T and IEEE 802.3bz 2500 BASE-T Ethernet standards
- Features Store-and-Forward mode with wire-speed filtering and forwarding rates
- Integrated address look-up engine, supporting 4K absolute MAC addresses
- 12K jumbo packet support
- Hardware-based **DIP switch** for **Standard** or **VLAN** mode selection:
  - **VLAN mode**: Ports **1~8** cannot communicate with each other, but can communicate with uplink port 9
- Power saving ability for Green networking
- IEEE 802.1Q VLAN packet transparency support
- IEEE 802.3x flow control for full duplex operation and back pressure for half duplex operation
- Automatic address learning and address aging

Hardware
- 0 to 50 degrees C operating temperature
- 100~240V AC, 1A, 50~60Hz universal power input
- 12-inch desktop size, 19-inch rack mountable for user-friendly installation
- Silent fanless design
- Supports contact discharge of ±6KV DC and air distance discharge of ±8KV DC for Ethernet ESD protection
- Supports ±6KV surge immunity

1Gbps **2.5X** *Speed* **2.5Gbps**
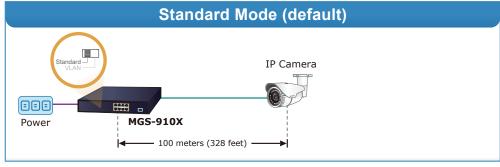
New Generation of Multigigabit Switch

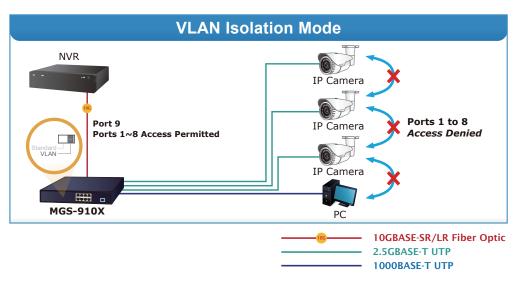

Flexible and Extendable 10Gb Ethernet Solution

With its 10GBASE-X fiber-optic link capability, the administrator now can flexibly choose the suitable SFP+ transceiver according to the transmission distance or the transmission speed required to extend the network efficiently and provides broad bandwidth, distance range and powerful processing capacity

Ethernet Data Transmission Distance Extension

The DIP switch provides "Standard" and "VLAN" operation modes.

■ The MGS-910X operates as a normal switch in the "Standard" operation mode.

■ The "**VLAN**" operation mode features port-based VLAN function that helps to prevent the IP camera's multicast or broadcast storm from influencing each other.

Excellent Traffic Transmission

The MGS-910X supports Store-and-Forward forwarding scheme to ensure low latency and high data integrity, which eliminates unnecessary traffic and relieves congestion on critical network paths. With an intelligent address recognition algorithm, the MGS-910X recognizes up to 4K different MAC addresses. The high data throughput and 60Gbps internal switching fabric make it ideal for most Gigabit environments, especially when network is upgraded to a Gigabit environment.

Fanless Design

With its good ventilation design, the MGS-910X is able to operate all along without a fan, thus reducing substantial power consumption and creating a noiseless environment. Uses the thermally conductive metal at the bottom of the fuselage, internal heat sinks and external heat dissipation holes to effectively remove heat during operation, not only to ensure that your living or working space isn't disturbed by noise but also to maintain high-speed network performance. The MGS-910X is definitely the best choice for any working environment.
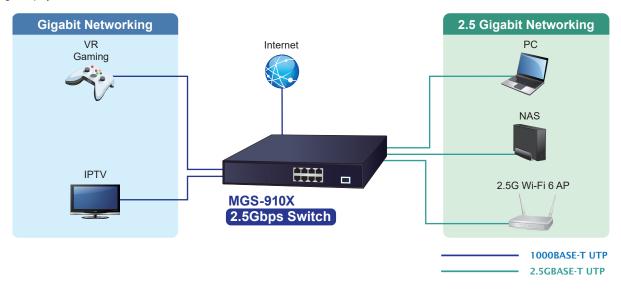

Plug & Play

All RJ45 copper interfaces of the MGS-910X support 10/100/1000/2500Mbps auto-negotiation for optimal speed detection through RJ45 Category 5, 5e or 6 cables. They support standard auto-MDI/MDI-X feature which can detect the type of connection to any Ethernet device without requiring special straight-through or crossover cables.

Applications

Leading Home, SOHO and Workgroup Users to High-speed Networking Generation

Providing 60Gbps internal switching fabric, the MGS-910X can handle large amounts of data in a secure topology linked to backbone networks or high-capacity servers, increasing the transfer rate of data backup and recovery files. Through the existing Cat5e network line, the MGS-910X is easy to directly connect and upgrade the original network line and storage experience, such as backing up device data to NAS, thus saving users more time. At the same time, the transmission speed of audio and video streaming has been upgraded, even multimedia applications such as high-definition 4K audio and video streaming and playback are smoother.
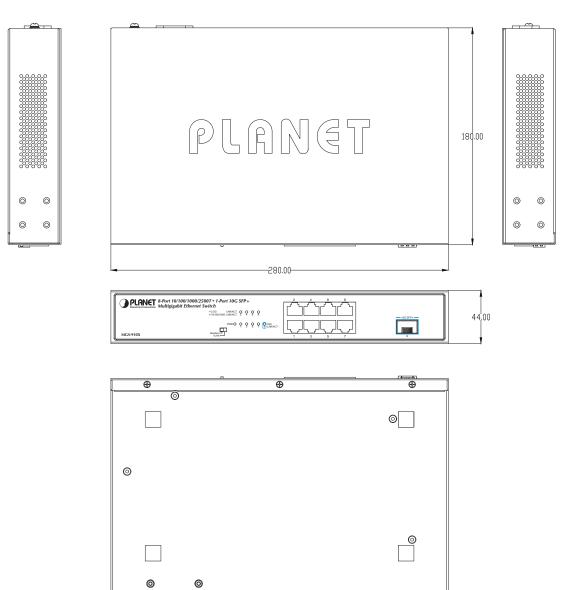
Gigabit Networking		**2.5 Gigabit Networking**

VR Gaming

Internet

PC

NAS

IPTV

MGS-910X
2.5Gbps Switch

2.5G Wi-Fi 6 AP

1000BASE-T UTP
2.5GBASE-T UTP

Specifications

Product	MGS-910X
Hardware Specifications	
10/100/1000/2500BASE-T Copper Interfaces	8
10GBASE-X SFP+ interface	1
DIP Switch	Selectable operation mode ■ Standard ■ VLAN
LED	System ■ Power (Green) 10/100/1000/2500T RJ45 Interfaces ■ 10/100/1000 LNK / ACT(Amber) ■ 2500 LNK / ACT (Green) 10G SFP+ Interface ■ LNK / ACT (Green)
Weight	1505g
Power Requirements	100~240V AC, 1A, 50-60Hz
Power Consumption/Dissipation	6.6watts/22.5 BTU
Dimensions (W x D x H)	280 x 180 x 44mm
ESD Protection	Contact discharge of ±6KV DC, Air discharge of ±8KV DC
Surge Protection	±6KV
Switching	
Switch Architecture	Store-and-Forward
Switch Fabric	60Gbps
Switch Throughput@64bytes	44.64Mpps
MAC Address Table	4K entries
Jumbo Frame	12K
Flow Control	IEEE 802.3x pause frame for full duplex; back pressure for half duplex

Standards Conformance	
Regulatory Compliance	FCC Part 15 Class A, CE
Standards Compliance	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3bz (2.5Gigabit Ethernet) IEEE 802.3ae 10Gbps Ethernet IEEE 802.3x (Full-Duplex Flow Control) IEEE 802.3az Energy Efficient Ethernet (EEE)
Environment	
Temperature	Operating: 0~50 degrees C Storage: -10~70 degrees C
Humidity (non-condensing)	Operating: 5% to 95% Storage: 5% to 95%

Dimensions

Unit: mm

Ordering Information

MGS-910X	8-Port 10/100/1000/2500T + 1-Port 10G SFP+ Multigigabit Ethernet Switch

Related Products

MGS-910XP	8-Port 10/100/1000/2500T 802.3at PoE+ + 1-Port 10G SFP+ Multigigabit Ethernet Switch (120 Watts)
GSD-1222VHP	8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 1000X SFP Ethernet Switch with PoE LCD Monitor
FGSD-1022VHP	8-Port 10/100TX 802.3at PoE + 2-Port Gigabit TP/SFP combo Desktop Switch with LCD PoE Monitor (120W)
MGS-5220-8P2X	L2+ 8-Port 2.5G 802.3at PoE + 2-Port 1G/10G SFP+ Managed Multigigabit Switch
GS-5220-8P2T2X	L3 8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T + 2-Port 10G SFP+ Managed Switch
GSD-1008HP	8-Port 10/100/1000T 802.3at PoE + 2-Port 10/100/1000T Desktop Switch (120 watts)

MGS-910X