

# 12/16-Port 100Base-FX Fast Ethernet Managed Switch



## Multi-Port 100Base-FX Fiber Optical connective for Distance Extension Solution

In modern society, the network is part of our life particularly for the business today. The PLANET MGSW-004-12F / MGSW-004-16F managed fiber Switch are designed to improve backbone and workgroup network applications which need high performance, long distance and stable transmission quality. By offering up to 12/16-Port of 100Base-FX interfaces, the MGSW-004-12F / MGSW-004-16F managed fiber Switch can extend distance reach 2km and deploy each network devices easily.

The MGSW-004 series managed fiber Switch with high performance and supports up to 9.6Gbps backplane for packet transmission. These managed fiber Switch provides network with long distance Fast Ethernet connectivity over multi-mode Fiber optic cable.

## Full Managed Layer 2 Features

These managed fiber Switch are able to be managed through Web, telnet and console, the SNMP MIBII also supported for maximum management functionality. The MGSW-004 series managed fiber Switch provides users with high-speed network connections of a store-and-forward architecture for abnormal packet filtering. It also supports IEEE 802.1D Spanning Tree Protocol to maintain a loop-free network and IGMP to limit the flow of IP multicast traffic. The MGSW-004 series managed fiber Switch supports IEEE 802.1Q VLAN and up to 4095 groups, also provides port security for improved network security.

## KEY FEATURE

- Up to 2km data transfer distance
- Conform to IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.3ab and IEEE 802.3x standards
- One built-in intelligent module with RS-232 console port (front side)
- Supports Half-Duplex mode for back pressure, and Full-Duplex for flow-control
- Store-and-Forward switching architecture for abnormal packet filtering
- Up to 9.6Gbps backplane forwarding rate
- 12K MAC Address table
- Packet Buffer: 4 Mbytes for 100FX Fiber module, 128KBytes for Gigabit module

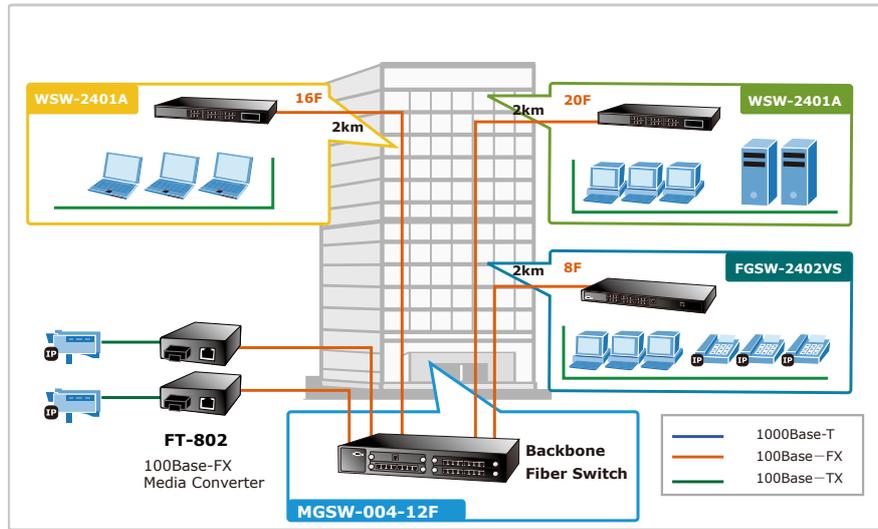
## MANAGEMENT FEATURES

- IEEE 802.1Q Tagging VLAN (Up to 4095 VLANs)
- Telnet, Console and Web manageable
- IEEE 802.1d Spanning Tree Protocol (STP)
- Statistic Address Table for manual address-addition
- Port Trunking supported
- IGMP and Sniffer (Port Mirroring) supported
- Broadcast Storm Filter function supported
- Firmware upgradeable through TFTP
- MIB II and Private MIB supported
- Port Priority – IEEE 802.1p & ToS support
- Port Security function supported

**APPLICATIONS**

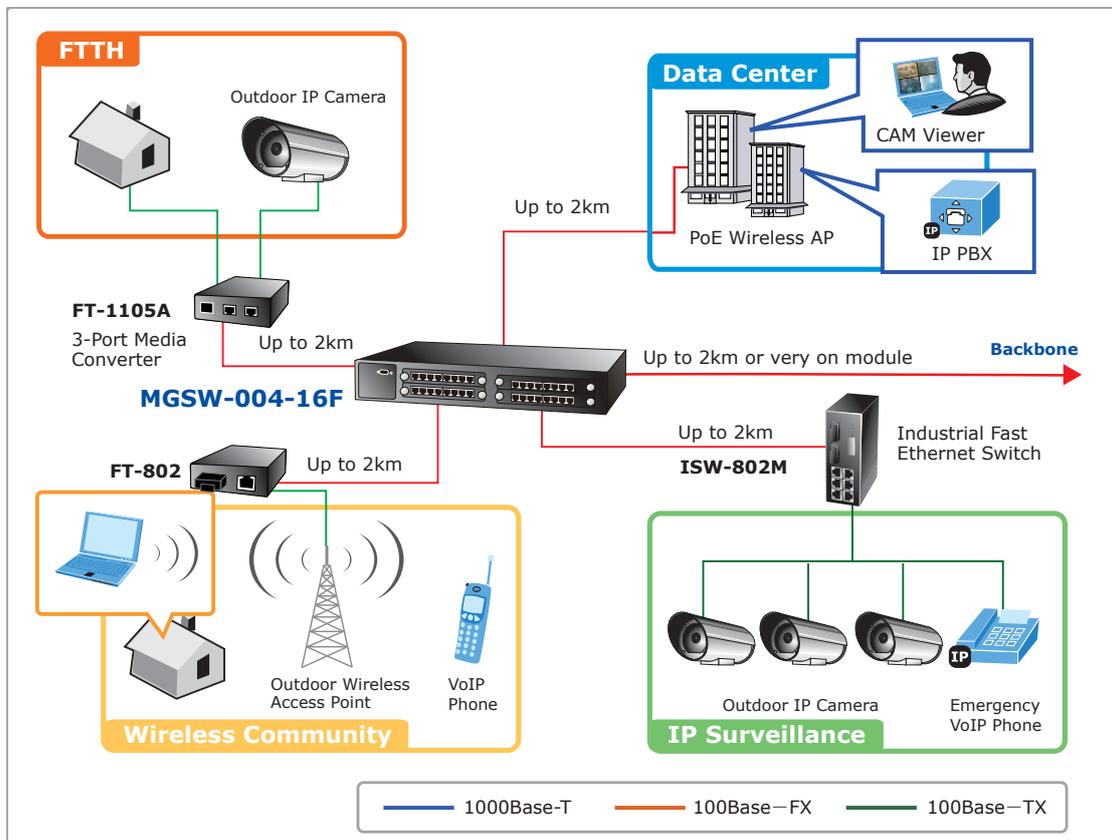
*Backbone Fiber Switch for Enterprises / FTTB node Fiber Switch for ISPs and Telecoms*

For enterprise networks with many data broadcasts, the solution for department users is the MGSW-004 series managed fiber Switch. These Fiber Switch provides a 9.6 Gigabits per second non-blocking switch fabric, high bandwidth for backbone connection by Fiber Switch. With its 12/16-Ports of 100Base-FX fiber optical connectivity and an optional Gigabit uplink, the MGSW-004 series managed fiber Switch is the right choice for powerful workgroups requiring a fast link to the LAN backbone.



*Long Reach Ethernet Fiber Switch for Community and Campus*

Through the 100Base-FX SC multi-mode interface, this feature extends the Ethernet cabling distance up to 2km. The MGSW-004 series managed fiber Switch can break through the limitation of UTP cable – maximum up to 100m distance. These Switch are equipped with 12/16-Port 100Base-FX SC interfaces and the distance can be extended to 2km. Which provides the best solution for the network applications, those need long reach of Ethernet devices deployed such as FTTH (Fiber to the Home), IP Surveillance, Wireless LAN Roaming and VoIP. The PLANET MGSW-004 series managed fiber Switch is well suite for networking construction of Communities and Campus



**SPECIFICATION**

Product	12-Port 100Base-FX + 1-Port Gigabit Managed Fiber Switch	16-Port 100Base-FX Managed Fiber Switch
Model	MGSW-004-12F	MGSW-004-16F
<b>Hardware Specification</b>		
100Base-FX fiber ports	12-Port	16-Port
Media Type	SC Type, multi-mode	
10/100/1000Mbps Ports	1-Port 10/100/1000Base-T, RJ-45	-
Switch Fabric	4.4Gbps / non-Blocking	3.2Gbps / non-Blocking
Switch Throughput (Packet Per Second)	3.27Mpps	2.38Mpps
Switch Architecture	Store-and-Forward	
MAC Address	12K	
Cabling	<ul style="list-style-type: none"> <li>• 50/125µm or 62.5/125µm multi-mode fiber cable, up to 2km.</li> <li>• 1000Base-T: 4-pair UTP Cat. 5, up to 100m</li> </ul>	
Management Port	RS-232 DB-9 male	
Flow Control	Back pressure for half duplex, IEEE 802.3x for full duplex	
Dimensions (W x D x H)	440mm x 227mm x 67mm	
Weight	4.6kg	
Power Requirement	100-240 VAC 50-60Hz	
Temperature	0 Degree C to 55 Degree C	
Humidity	10%~95%	
<b>Standard Conformance</b>		
Standards	IEEE 802.3	10Base-T
	IEEE 802.3u	100Base-TX/100Base-FX
	IEEE 802.3ab	1000Base-T Gigabit Ethernet (MGSW-004-12F only)
	IEEE 802.3x	Flow Control
	IEEE 802.1D	Spanning Tree Protocol
	IEEE 802.1p	Class of service
	IEEE 802.1Q	VLAN Tagging
EMI	FCC Class A, CE Mark	
Safety	UL, cUL, CE	
	IEEE 802.1Q VLAN	
Network Management functions	Port Trunking	
	IEEE 802.1D Spanning Tree Protocol	
	IGMP and Sniffer (Port Mirroring)	
	SNMP network management	
	Static Address Table for manual address addition	
	Broadcast Storm Filter function	

**ORDERING INFORMATION**

MGSW-004-12F	12-Port 100Base-FX(SC) + 1 Port Gigabit Managed Switch
MGSW-004-16F	16-Port 100Base-FX(SC) Fast Ethernet Managed Switch

**AVAILABLE MODULES**

MGSW-8TP	8-Port 10/100Base-TX Fast Ethernet Expansion module
MGSW-4SC	4-Port 100Base-FX Fast Ethernet Expansion module (SC, MM)
MGSW-4ST	4-Port 100Base-FX Fast Ethernet Expansion module (ST, MM)
MGSW-1SX	1-Port 1000Base-SX Gigabit Ethernet Expansion module (SC, MM)
MGSW-1LX	1-Port 1000Base-LX Gigabit Ethernet Expansion module (SC, SMM/MM)
MGSW-1GT	1-Port 1000Base-T Gigabit Ethernet Expansion module (RJ-45)