

# 4-Port 100Base-FX POF + 2 Gigabit Web Smart Switch



### *Simple, Stable, High performance Home Fiber Solution*

To easily integrate to the household use, PLANET Technology releases the POF (Plastic Optical Fiber) Web Smart Switch, FSD-624SF. With its easy installation and highly stable data transmission performance via Fast / Gigabit Ethernet, the FSD-624SF is an ideal device for Home fiber solution and FTTH (Fiber to the Home) applications.

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### *Easy and Self Installation*

The FSD-624SF provides four 100Base-FX POF Fast Ethernet ports and two Gigabit Ethernet ports (one 1000Base-T port and one Gigabit mini-GBIC interface). Its fiber-optic interface is the form factor of SMI (Small Multimedia Interface), one kind of POF (Plastic Optic Fiber) interface that offers high-speed data transmission in low cost. The two Gigabit ports either can be 1000Base-T for 10/100/1000Mbps or 1000Base-SX/LX through SFP (Small Factor Pluggable) interfaces. The transmission distance can be extended from 100 meters (TP), 550 meters (Multi-mode fiber), up to 10, 20kilometers, max. 120 kilometers (Single-mode fiber).

### *IPTV, VOD and Multicast services*

The FSD-624SF is equipped with non-blocking 4.8Gbps backplane, greatly simplifies the tasks of upgrading your LAN for catering to increasing bandwidth demands. To manage the switch efficiently, the FSD-624SF is equipped with Web interface for remote management. The FSD-624SF can be programmed for advanced switch management functions such as port configuration, port-based / IEEE 802.1Q / MTU VLAN, port mirroring, QoS, bandwidth control, broadcast storm control, MAC address / TCP & UDP filter and IGMP Snooping v1/v2. For VLAN features provided by the FSD-624SF, the VLAN groups allowed will be maximally up to 6 for port-based VLAN or 32 for IEEE 802.1Q VLAN. The MTU VLAN feature allows the administrator to assign per port as separate LAN group and only can access the public port G1 or public port G1/G2.

### *Low-Cost and High-Speed Data Transmission*

The 4-Port 100Base-FX POF fiber interfaces supports 100Mbps full-duplex operation mode (Auto negotiation or force mode option). The SMI pathcord meets the IEEE 1394b specification that can transmit data at S200 (250Mbps) speed for 50 meters. With its Auto-Negotiation capability, the 1000Base-T RJ-45 port of Web Smart Switch can be configured to speeds of 10/20Mbps or 100/200Mbps via Fast Ethernet, and 1000/2000Mbps via Gigabit Ethernet automatically. In addition, the FSD-624SF is equipped with the MDI/MDI-X auto detection for easily plug and play connection, regardless of cabling types in straight through or crossover.

SMI Interface



FSD-624SF-SMI

Optolock Interface



FSD-624SF-OPT

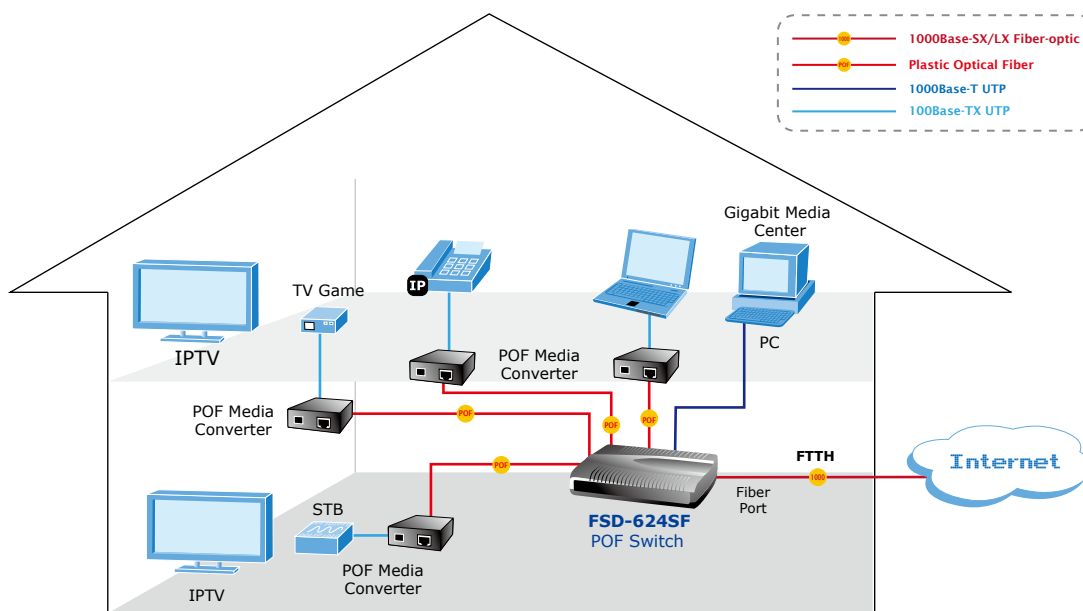
**KEY FEATURES**

- Complies with the IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z Gigabit Ethernet standard
- 4-Port 100Base-FX POF Web Smart Switch
- 2 Gigabit interfaces (One 1000Base-T port and one Gigabit mini-GBIC interface)
- Each Switching ports support auto-negotiation-10/20, 100/200Mbps (Fast Ethernet) , 1000/2000Mbps (Gigabit Ethernet) supported
- Auto-MDI/MDI-X detection on RJ-45 port
- Prevents packet loss with back pressure (Half-duplex) and IEEE 802.3x PAUSE frame flow control (Full-duplex)
- High performance Store and Forward architecture, broadcast storm control, runt/CRC filtering eliminates erroneous packets to optimize the network bandwidth
- 4K MAC address table, automatic source address learning and ageing
- 2.75Mb embedded memory for packet buffers
- Remote Web interface for Switch management and setup
- Broadcast Storm Control support
- Supports up to 6 port-based VLAN groups / 32 IEEE 802.1Q VLAN groups / MTU VLAN
- Supports QoS , bandwidth control and MAC address filter / TCP & UDP filter on each port
- Supports port mirroring function and IGMP Snooping v1 / v2
- Firmware upgrade through Web interface
- Password setting, IP setting and device description setting through Planet Smart discovery utility
- Desktop placement size
- Internal full-range power supply suitable for worldwide use
- EMI standards complies with FCC, CE class A

**APPLICATIONS**

**Home Fiber Switch**

With four 100Base-FX POF ports and two Gigabit ports (One 1000Base-T copper and one Gigabit mini GBIC interface), the FSD-624SF can building a data and reliable network solution of FTTH (Fiber to the Home) or small office network environment.



**SPECIFICATION**

Product	<b>4-Port 100Base-FX POF + 2 Gigabit Web Smart Switch</b>
Model	<b>FSD-624SF</b>
<b>Hardware Specification</b>	
100Base-FX POF Ports	4
Gigabit ports	One 1000Base-T port and one Gigabit mini-GBIC SFP interface
Switch Processing Scheme	Store-and-Forward
Throughput (packet per second)	3.57Mpps
Switch Fabric	4.8Gbps
Address Table	4K entries
Share Data Buffer	2.75Mb embedded memory for packet buffers
Flow Control	Back pressure for half duplex, IEEE 802.3x Pause Frame for full duplex
Dimension (W x D x H)	186 x 143 x 35 mm
Weight	370g
Power Requirement	DC 5V 2A
Power Consumption / Dissipation	9.6watts / 32BTU
Temperature	Operating: 0~50 Degree C Storage: -40~70 Degree C
Humidity	Operating: 5~90%, Storage: 5~90% (Non-condensing)
<b>Smart function</b>	
System Configuration	Web interface
Port configuration	Port speed duplex mode selection. Flow control disable / enable. Port disable / enable. Port description on each port
Bandwidth Control	Yes, 1 / 2 / 4 / 8 / 16 / 32 / 64Mbps
Broadcast Storm Control	Yes, 5% / 10% / 25% / 50% / Disable
Port Statistics	Display each port's detail Ethernet traffic counter information
VLAN	6 port-based VLAN groups / 32 IEEE 802.1Q VLAN groups / MTU VLAN
Port Mirroring	Port mirroring allows monitoring of the traffic across any port in real time
QoS	Allow to assign low / high priority on each port. First-In-First-Out, All-High-before-Low, Weight-Round-Robin QoS policy
MAC address / TCP & UDP filter	Yes
IGMP Snooping v1 / v2	Allow to disable or enable
<b>Standards Conformance</b>	
Regulation Compliance	FCC Part 15 Class A, CE IEEE 802.3u (Fast Ethernet) IEEE 802.3ab(Gigabit Ethernet) IEEE 802.3z(Gigabit Ethernet)
Standards Compliance	IEEE 802.3x (Full-duplex flow control) IEEE 802.1Q VLAN IEEE 802.1p QoS

**ORDERING INFORMATION**

<b>FSD-624SF-OPT</b>	4-Port 100Base-FX POF + 2-Port Gigabit Web Smart Switch (OptoLock POF)
<b>FSD-624SF-SMI</b>	4-Port 100Base-FX POF + 2-Port Gigabit Web Smart Switch (SMI POF)

**AVAILABLE MODULES FOR FSD-624SF**

<i>MGB-GT</i>	SFP-Port 1000Base-T mini-GBIC module
<i>MGB-SX</i>	SFP-Port 1000Base-SX mini-GBIC module
<i>MGB-LX</i>	SFP-Port 1000Base-LX mini-GBIC module
<i>MGB-L30</i>	SFP-Port 1000Base-LX mini-GBIC module -30KM
<i>MGB-L50</i>	SFP-Port 1000Base-LX mini-GBIC module -50KM
<i>MGB-L70</i>	SFP-Port 1000Base-LX mini-GBIC module -70KM
<i>MGB-L120</i>	SFP-Port 1000Base-LX mini-GBIC module -120KM
<i>MGB-LA10</i>	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1310nm), SM,10km
<i>MGB-LB10</i>	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1550nm), SM,10km
<i>MGB-LA20</i>	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1310nm), SM,20km
<i>MGB-LB20</i>	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1550nm), SM,20km
<i>MGB-LA40</i>	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1310nm), SM,40km
<i>MGB-LB40</i>	SFP-Port 1000Base-LX mini-GBIC module- LC WDM(TX:1550nm), SM,40km

**RELATED PRODUCT**

<i>FT-807</i>	10/100Base-TX to 100Base-FX POE Ethernet Converter (SMI interface)
<i>FT-807L</i>	10/100Base-TX to 100Base-FX POE Ethernet Converter (OptoLock interface)