

# 10/100Base-TX to 100Base-FX Smart Media Converter



For the feature of plug and play and powerful smart function, PLANET releases a new 10/100Base-TX to 100Base-FX Smart Media Converter FST-80x series.

The FST-80x series Smart Media Converter provide Media conversion between 10/100Base-TX and 100Base-FX interfaces, such as multi-mode ST/SC connectors (2km), single-mode SC connector (15/35/50km) and single fiber connector (WDM, 20km) These connection options are able to for various applications.

The FST-80x series Smart Media Converter provide auto MDI / MDI-X on their TP ports and store-and-forward mechanism for eliminating faulty packets. Use the DIP switch from the FST-80x to configure the available smart functions, such as the half / Full Duplex, auto-negotiation / force and 10/100Mbps options for TP and fiber interface. The LLR function can also immediately alarm network administrators for the media link issue and provide efficient solutions to monitor the entire network.

The FST-80x series Smart Media Converter can allow two types of segments connecting easily with efficient and cost effective. These Smart Media converter can be use as a standalone when its power on by its DC adapter. Or use as a slide-in module to the PLANET new 19-inch Web Smart 16-Slots Media converter chassis (MC-1600MR / MC-1600MR48). With this Web Smart Media converter chassis, the FST-80x are able to manage and status monitor through the local RS-232 console and remote web interface.

## KEY FEATURE

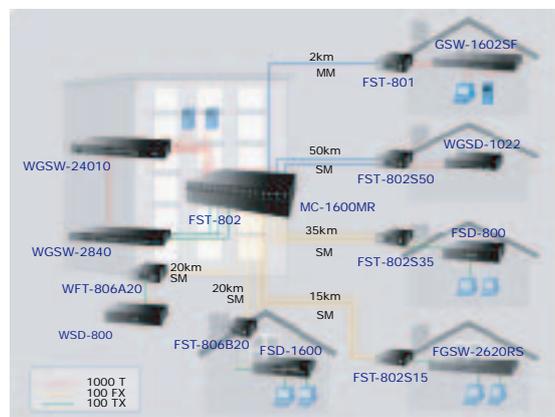
- Complies with IEEE 802.3, 10Base-T, IEEE 802.3u, 100Base-TX and 100Base-FX Ethernet standard
- Provides one 10/100Base-TX port with RJ-45 connector, and one 100Base-FX Port with ST / SC / WDM connector supporting multi-mode or single-mode fiber optic cable
- LED indicators for converter status
- Provides DIP switch to set fiber (HDX / FDX), UTP (Auto-negotiation / Manual), speed (10/100Mbps), duplex mode (Half / Full duplex mode), LLR (Disable / Enable), LLCF (Disable / Enable)
- Auto-MDI / MDI-X for 10/100Base-TX Port
- Store-and-Forward mechanism
- Back-pressure, IEEE 802.3x compliant flow control and full wire speed forwarding rate
- Link Loss Return (LLR) switch on each fiber optic to aid in troubleshooting remote network connections
- Link Loss Carry Forward (LLCF) works with LLR in diagnosing network connections
- Manageable through Web Smart Media Converter Chassis System
- Uses as a stand-alone device or with a chassis for up to 16 converter with redundant power supply for optional expanding use
- EMI standards comply with FCC, CE class B

**SPECIFICATION**
**Product 10/100Base-TX to 100Base-FX Smart Media Converter**

Model	FST-801	FST-802	FST-802S15	FST-802S35	FST-802S50	FST-806A20	FST-806B20
<b>Hardware Specification</b>							
<b>Standards</b>	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX and 100Base-FX						
<b>Ports</b>	1 10/100Base-TX port , 1 100Base-FX port						
<b>Fiber Connector</b>	ST	SC	SC	SC	SC	SC, WDM	SC, WDM
<b>Wavelength Deployment</b>	1310nm (Transmit and Receive)					1310 (TX)	1550 (TX)
<b>Cable</b>	10Base-T: 2-pair Cat. 3,4,5 UTP cable, up to 100 meters 100Base-TX: 2-pair Cat. 5 UTP cable, up to 100 meters 100Base-FX: 50/125µm or 62.5/125µm multi-mode fiber cable, up to 2km. 9/125µm single-mode cable, provides long distance for 15/20/35/50km						
<b>Maximum Cable Distance</b>	MM, 2km	MM, 2km	SM, 15km	SM, 35km	SM, 50km	SM, 20km Single wire	SM, 20km Single wire
<b>LED Indicator</b>	System: PWR TP: LNK/ACT, FDX/COL, 100 FX: LNK/ACT, FDX/COL						
<b>DIP Switch</b>	Fiber (HDX / FDX), UTP (Auto-negotiation / Manual), speed (10/100Mbps), duplex mode (Half / Full duplex mode), LLR (Disable / Enable), LLCFC (Disable / Enable)						
<b>Speed</b>	Ethernet: 10/20Mbps for half / Full-Duplex Fast Ethernet: 100/200Mbps for half / Full-Duplex						
<b>Power Input</b>	DC 5V 2A						
<b>Power Consumption</b>	6.2 Watts / 21 BTU (maximum)						
<b>Operate Environment</b>	0~50 Degree C, 5%~90%RH						
<b>Storage Environment</b>	-20~70 Degree C, 5%~90%RH						
<b>Dimension (W x D x H)</b>	81 x 94 x 26mm						
<b>Weight</b>	0.22kg						
<b>Emission</b>	FCC Class B, CE mark						

**APPLICATIONS**
**Standalone and Centralize Management Media Converter Installation**

Affording the current network grows and expanding, the PLANET FST-80x provide advanced Media conversion technology to fill this kind of demand. The FST-80x provide the diverse fiber connecting types of options to meet different network applications. It is very flexible for FST-80x to work as a standalone device or install into the central Web Smart Media converter chassis for centralized management. While installing the FST-80x into the Web Smart Media Converter chassis, it supports hot swappable to avoid network down time, the FST-80x is ideal solution for building a network solution of FTTH (Fiber to the Home) or FTTC (Fiber to the Curb) and FTTB (Fiber to the Building) for ISPs, campuses and enterprises.


**ORDERING INFORMATION**

<b>FST-801</b>	10/100Base-TX to 100Base-FX (ST, MM) Smart Media Converter-2km
<b>FST-802</b>	10/100Base-TX to 100Base-FX (SC, MM) Smart Media Converter-2km
<b>FST-802S15</b>	10/100Base-TX to 100Base-FX (SC, SM) Smart Media Converter-15km
<b>FST-802S35</b>	10/100Base-TX to 100Base-FX (SC, SM) Smart Media Converter-35km
<b>FST-802S50</b>	10/100Base-TX to 100Base-FX (SC, SM) Smart Media Converter-50km
<b>FST-806A20</b>	10/100Base-TX to 100Base-FX (SC WDM, SM) Smart Media Converter- TX:1310nm-20km
<b>FST-806B20</b>	10/100Base-TX to 100Base-FX (SC WDM, SM) Smart Media Converter- TX:1550nm-20km

**RELATED PRODUCTS**

<b>MC-1600MR</b>	16-Slot Web Smart Media Converter Chassis (AC power)
<b>MC-1600MR48</b>	16-Slot Web Smart Media Converter Chassis (DC power)
<b>MC-RPS130</b>	130W Redundant Power Supply, 100-240V AC
<b>MC-RPS48</b>	130W Redundant Power Supply, DC -48V