

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



PLANET's FT-90x Web Smart Media Converter series supports conversion between a 10/100Base-TX and a 100Base-FX network. These devices are suitable for SC/SFP/WDM connectors and operate in single-mode or multimode media to fit your needs. The Ethernet signal allows two types of segments to connect easily, efficiently and inexpensively. This converter can be used as a stand-alone unit or as a slide-in module to PLANET's Media Converter Chassis (MC-700, MC-1500 and MC-1500R / MC-1500R48).

Each Web Smart converter is managed via a Web interface. The powerful Web Smart Media Converter supports flow control, QoS, bandwidth control and ingress/egress rate control, etc. The statistics functions of the Web Smart converter help administrators remotely analyze and count the packet flow of the current Ethernet link. Management functions reduce the amount of time spent on maintaining a network and help network administrators detect and locate network problems.

The Web Smart function also includes LLR and Loop Back Testing. LLR can immediately alarm administrators about problems encountered by the link media and provides an efficient solution to monitor the network. It also provides flexible settings for converters.

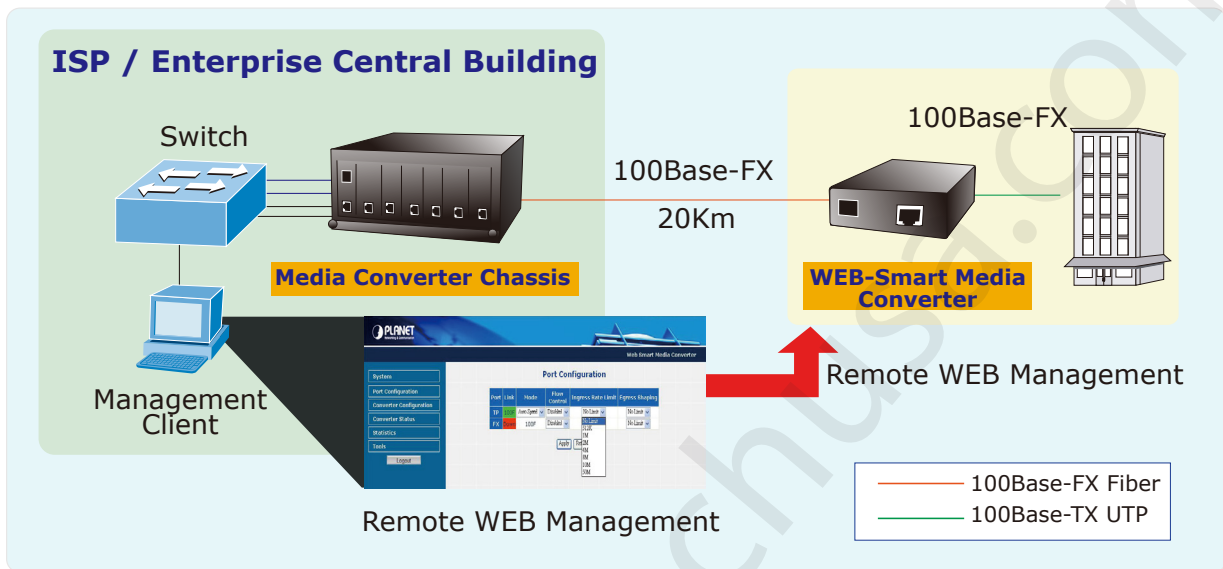
## Features

- One-channel media conversion between 10/100Base-TX and 100Base-FX
- Complies with IEEE 802.3, IEEE 802.3u 10/100Base-TX, 100Base-FX standard
- Auto-negotiation for 100Base-TX Half-duplex or 100Base-TX Full-duplex
- Supports auto MDI/MDI-X function on RJ-45 Port
- Compact size works with PLANET MC family Media Chassis (MC-700/1000R/1500)
- TS-1000 OAM
- Built-in IP-based Web interface for remote management
- Supports PLANET Discovery Utility for deploy management
- Layer 2 Smart Feature
  - IEEE 802.3x Full-Duplex Flow-Control and Back-Pressure in Half-Duplex eliminate the loss of packets
  - Supports Maximum frame size to 2Kbytes.
  - Store-and-Forward mechanism
  - IEEE 802.1Q VLAN tagging
  - Two levels of priority queue
  - 802.1p QoS Scheme
  - Bandwidth Control (Kbps) for both Ingress and Egress
  - Broadcast Storm Control to optimize network bandwidth.
  - Ethernet Statistics on both TP and Fiber interface
  - Look Back Test Function (LBT) , Link Loss Return(LLR)
  - Firmware upgrade via HTTP protocol
  - SNMP Trap for alarm notification
- LED indicators for easy network diagnosing
- Reset Button at the front panel for resetting to factory default
- Choice of fiber-connector from SC, WDM, multi-mode / single-mode fiber /100Base SFP

## Applications

Fiber-optic Networking for ISPs, enterprises, and homes

With high-performing data transmission and easy installation, the FT-90x series can build an ISP network solution such as FTTH (Fiber to the Home) or FTTC (Fiber to the Curb) for ISPs and FTTB (Fiber to the Building) for a small office network environment in an enterprise. The Web management function helps network administrators monitor and setup the converter, speed and duplex via a web browser.



## Specifications

Model	FT-90x Series
<b>Hardware Specifications</b>	
Standards	IEEE 802.3, 10Base-T IEEE 802.3u, 100Base-TX, 100Base-FX IEEE 802.3x, Flow Control IEEE 802.1p, Class of Service
Copper Port	1 x 10/100Base-TX RJ-45 port Auto-negotiation, Auto-MDI/MDI-x
Optical Port	1 x 100Base-FX
Fiber Connector	FT-902 : SC / Multi-mode / 2km FT-902S15 : SC / Single Mode / 15km FT-902S35 : SC / Single Mode / 35km FT-902S50 : SC / Single Mode / 50km FT-905A : SFP / Vary on transceiver module FT-906A20: WDM SC / Single Mode / 20km FT-906B20: WDM SC / Single Mode / 20km
Optic Wavelength	FT-902: 1310nm FT-902S15: 1310nm FT-902S35: 1310nm FT-902S50: 1310nm FT-905A: Vary on transceiver module FT-906A20: TX: 1310nm, RX: 1550nm FT-906B20: TX: 1550nm, RX: 1310nm
Launch Power (dBm) Max.	FT-902: -14 FT-902S15: 0 FT-902S35: -8 FT-902S50: 0 FT-905A: NA FT-906A20: -8 FT-906B20: -8

Launch Power (dBm) Min.	FT-902: -20 (62.5/125µm), -23.5 (50/125µm) FT-902S15: -20 FT-902S35: -15 FT-902S50:-5 FT-905A:NA FT-906A20:-14 FT-906B20:-14
Receive Sensitivity (dBm)	FT-902: -31.8 FT-902S15: -32 FT-902S35:-34 FT-902S50: -35 FT-905A:NA FT-906A20:-31 FT-906B20:-31
Maximum Input power (dBm)	FT-902: -14 FT-902S15:0 FT-902S35:0 FT-902S50:0 FT-905A: NA FT-906A20:0 FT-906B20:0
Speed-Twisted-pair	10/20Mbps for Half/Full-Duplex 100/200Mbps for Half/Full-Duplex
Speed-Fiber-optic	200Mbps for Full-Duplex
Cable-Twisted-pair	10Base-T: 2-pair UTP Cat. 3, 4, 5, up to 100 m 100Base-TX: 2-pair UTP Cat. 5, up to 100 m
Cable-Fiber-optic cable	• 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 or longer (very on SFP module)
LED Indicators	PWR, TP LINK/ACT, TP FDX, TP SPEED Fiber LINK/ACT, Fiber FDX
Power Consumption	5.5 Watts (maximum)
Power Input	5V/2A
Dimensions (W x D x H)	93 x 69 x 25 mm
Operating Environment	Operating temperature: 0 to 50 degrees C Humidity: 10~90% non-condensing
Storage Environment	Storage temperature: -25 to 70 degrees C Humidity: 10~90% non-condensing
Emission	FCC Class A, CE Class B

## Ordering Information

FT-902	10/100Base-TX to 100Base-FX Web Smart Media Converter (SC,MM)-2km
FT-902S15	10/100Base-TX to 100Base-FX Web Smart Media Converter (SC,SM)-15km
FT-902S35	10/100Base-TX to 100Base-FX Web Smart Media Converter (SC,SM)-35km
FT-902S50	10/100Base-TX to 100Base-FX Web Smart Media Converter (SC,SM)-50km
FT-905A	10/100Base-TX to 100Base-FX Web Smart Media Converter (SFP)-up to 60Km
FT-906A20	10/100Base-TX to 100Base-FX Web Smart Media Converter (WDM,SM, TX:1310 RX:1550)-20km
FT-906B20	10/100Base-TX to 100Base-FX Web Smart Media Converter (WDM,SM, TX:1550 RX:1310)-20km

## Related Products

MC-1500	15-Slot Media Converter Chassis
MC-1500R	15-Slot Media Converter Chassis (AC Power)
MC-700	7-Slot Media Converter Chassis
MFB-Series Transceiver	100Base-FX SFP Transceiver

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### C-FT-90x Series

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