

# WDM Fast Ethernet Bridge Media Converters



As the need for distance extension, PLANET provides the WDM Bi-directional Fast Ethernet Bridge Converters, FT- 806A20/806B20 -the 10/100Base-TX to 100Base-FX converter. FT- 806A20/806B20 is used to convert optical Ethernet signal to electrical Ethernet signal that allows two type, segments connect easily, efficiently and inexpensively. By deploying WDM technology (Wavelength Division Multiplexer) , only single-mode fiber is needed to transmit and receive optical Ethernet packets.

The WDM technology employs passive optic multiplexing, thus multiplex the transmit (TX) and receive (RX) lines onto a single fiber. It will save a half cabling cost by replacing regular dual fiber converter with FT- 806A20/806B20. A pair of FT- 806A20/806B20 of distinct wavelength, 1310nm and 1550nm, should be installed at both ends of the single fiber cable. It transmits up to 15 kilometers point to point over single mode fiber. This converter can be used as a standalone unit or as a slide-in module to the 10"/ 19" media chassis (up to 15 units) for a TP and Fiber combined networks at a central wiring closet.

The FT-806A20/FT-806B20 is with LFP (Link Fault Pass Through function) (LLCF/LLR) and the DIP Switch design. LLCF/LLR can immediately alarm administrators the problem of the link media and provide efficient solution to monitor the net. The DIP Switch provides disable or enable the LFP function.

LLCF (Link Loss Carry Forward) means when a device connected to the converter and the TP line loss the link, the converter's fiber will disconnect the link of transmit. LLR (Link Loss Return) means when a device connected to the converter and the fiber line loss the link, the converter's fiber will disconnect the link of transmit. Both can immediately alarm administrators the problem of the link media and provide efficient solution to monitor the net.

## KEY FEATURE

- Comply with IEEE 802.3, IEEE 802.3u 10/100Base-TX, 100Base-FX Standard
- Connectors: One RJ-45 (Auto-MDI/MDI-X) Twisted Pair, EIA568
- One Fiber-optic:
  - FT-806A20: Tx-1310nm, Rx-150nm
  - FT-806B20: Tx-1550nm, Rx-1310nm
- Data Transfer Rate:
  - TP: 10/100Mbps
  - FX: 100Mbps
- Duplex mode support:
  - Full or half-duplex mode by Auto- Negotiation (TP)
  - Full or half-duplex mode by DIP-switch (FX)
- LED indicators:
  - PWR, FX LNK/ACT, FX FDX/COL, TP 100, TP LNK/ACT, TP FDX/COL
- DIP-switch: 2 DIP-switches
  - Rear DIP-switch: FX duplex mode selection
  - Side DIP-switch: LFP (Link Fault Pass-through) mode selection

**SPECIFICATION**
**Product** WDM Fast Ethernet Bridge Media Converters

Model	FT-806A20	FT-806B20
Protocols and Standards	IEEE 802.3, IEEE 802.3u (Fast Ethernet)	
Maximum Speed	Full Duplex: 200Mbps (for 100Base-TX) Half Duplex: 100Mbps (for 100Base-TX)	
Cabling	10Base-T: 2-pair UTP Cat. 3,4,5, up to 100 m 100Base-TX: 2-pair UTP Cat. 5, up to 100 m 100Base-FX: 9/125µm single mode fiber optic cable up to 20km (WDM)	
Modes	Half and Full Duplex, auto-negotiation	
Packet Forwarding Rate(64bytes)	148800pps @ 100Mbps	
Connector - Copper	RJ-45	
Connector - Fiber	Single SC-type connector	
Fiber Maximum Distance	20 km	
TX Optical Frequency	1310 nm (1260~1360nm)	1550 nm (1480~1580nm)
RX Optical Frequency	1550 nm (1480~1580nm)	1310 nm (1260~1360nm)
Max. Optical Launch Power	-8 dBm	
Min Optical Launch Power	-14 dBm	
Optical Receive Sensitivity	-31 dBm	

**ORDERING INFORMATION**

<b>FT-806A20</b>	100Base-FX to 10/100Base-TX (SC, SM) Bridge Media Converter (TX: 1310)
<b>FT-806B20</b>	100Base-FX to 10/100Base-TX (SC, SM) Bridge Media Converter (TX: 1550)