



FT-706A15 / FT-706B15

WDM Fast Ethernet Media Converters

As the need for distance extension, PLANET provide the WDM Bi-directional Fast Ethernet Converters, FT-706A15/706B15 -the 100Base-TX to 100Base-FX converter. FT-706A15/706B15 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-706A15/706B15. A pair of FT-706A15/706B15 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.

▶▶ KEY FEATURE

- Complies with IEEE802.3u, 100Base-TX and 100Base-FX
- Compact in size, easy installation
- Data Transfer Rate: 100Mbps
- Duplex mode support: Full or half-duplex mode by Auto- Negotiation
- LED indicators: PWR, TX-LNK, TX-ACT, FX-LNK, FX-ACT, FDX
- Cable: UTP: Cat 5 UTP cable
- Fiber: Single Mode: 8.3/125, 8.7/125, 9/125 μm optic fiber and up to 15km
- Can be installed on PLANET's 7/10/15 slots Media converter chassis

Specification

Product	WDM Fast Ethernet Media Converters	
Model	FT-706A15	FT-706B15
Protocols and Standards	IEEE 802.3u (Fast Ethernet)	
Maximum Speed	Full Duplex: 200Mbps (for 100Base-TX) Half Duplex: 100Mbps (for 100Base-TX)	
Cabling	100Base-TX - 2-pair UTP Cat.5, up to 100m (328ft) Fiber : Single mode: 8.3/125, 8.7/125, 9/125 μ m optic fiber	
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	15 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

- ▶ **FT-706A15** Fast Ethernet Media Converter (WDM, SC Type, 100Base-FX to 100Base-TX)
- ▶ **FT-706B15** Fast Ethernet Media Converter (WDM, SC Type, 100Base-FX to 100Base-TX)