

Product Specifications

10/100BASE-TX to 100BASE-FX Bridge Media Converter

FT-80x

Version 3.1

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Change History:

Revision	Date	Author	Change List
Version 1.0	2001/11/23	Marc Liao	Initial release
Version 2.0	2003/05/12	Marc Liao	1. LED indicators modified 2. TP port supports MDI/MDI-X.
Version 3.0	2003/02/27	Marc Liao	1. Chip set change to IP113A. 2. Featured with LFP.
Version 3.1	4/23/2015	Marc Liao	Added FT-806A60 / FT-806B60 description.

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Reviewed by	Kent Kang	Approved by	Tom Shih

1. PRODUCT DESCRIPTION

PLANET 10/100BASE-TX to 100BASE-FX Media Converter is used to convert one type of media signal to the other type so that the two types of network segments can connect each other easily, efficiently and inexpensively. 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 combined TP and fiber network at a central wiring closet.

The FT-80x models include FT-801, FT-802, FT-802Sxx, FT-803, FT-806A20/FT-806B20, and FT-806A60/FT-806B60.

2. PRODUCT FEATURES

- **Standard:** IEEE802.3/u, 10/100BASE-TX and 100BASE-FX
- **Connectors:**
 - One RJ45 (auto-MDI/MDI-X) twisted-pair, EIA568
 - One fiber-optic with connector type varied with model
 - FT-801: ST interface, multi-mode
 - FT-802/FT-802Sxx: SC interface, multi-mode/single-mode; xx=km
 - FT-803: MTRJ, multi-mode
 - FT-806A20 / FT-806B20: Single SC, single-mode; 20km
 - FT-806A60 / FT-806B60: Single SC, single-mode; 60km
- **Fiber-optic Wavelength:** 1310nm wavelength (except FT-806AFT-806B series)
 - FT-806A20/FT-806A60: 1310nm, transmit / 1510nm, receive
 - FT-806B20/FT-806B60: 1510nm, transmit / 1310nm, receive
- **Data Transfer Rate:** 10/100Mbps (TP), 100Mbps (FX)
- **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
- **Cable:**
 - UTP: Cat5 UTP cable
 - Fiber: MM: 50/125 μ m or 62.5/125 μ m optic fiber
 - Fiber: SM: 8.3/125, 8.7/125, 9/125 μ m optic fiber
- **Wiring Distance:**
 - UTP: 100 meters
 - Fiber: MM: 2 kilometers
 - Fiber: SM: varies on part no.
- **DIP Switch:** 2 DIP switches
 - Rear DIP switch: FX duplex mode selection
 - Side DIP switch: LFP (Link Fault Pass-through) mode selection

3. PRODUCT SPECIFICATIONS

3.1 MAIN COMPONENTS

Chip: IC plus IP113A
Fiber-optic transceiver: vary by model

3.2 FUNCTIONAL SPECIFICATIONS

Protocols and Standards	IEEE 802.3 (Ethernet), 10BASE-T IEEE 802.3u (Fast Ethernet), 100BASE-TX, 100BASE-FX					
Maximum Speed	Full Duplex: 200Mbps Half Duplex: 100Mbps					
Cabling	UTP: Cat5 UTP cable Fiber: MM: 50/125 μ m or 62.5/125 μ m optic fiber Fiber: SM: 8.3/125, 8.7/125, 9/125 μ m optic fiber					
DIP Switch	2; FX duplex mode, LFP mode					
Port Mode	TP: Half and Full Duplex, auto-negotiation FX: Half and Full Duplex via DIP switch					
LFP mode	Enable: When either TP port or FX port is broken, the other port will be shut down. Disable: Link of LED indicators is still on if connection of the other end is broken.					
Packet Forwarding Rate (64 bytes)	14880pps @ 10Mbps 148800pps @ 100Mbps					
Port Type (connector)	Cable Distance	Optical Frequency	Launch Power(dBm) Max. Min.		Receive Sensitivity	Maximum Input Power
100FX MMF	2km	1310nm	-14	-19.0	-34.5	-14
100FX SMF(15km)	15km	1310nm	-7	-20	-28	-8
100FX SMF(20km) A model	20km	1310nm / 1550nm	-8	-14	-31	0
100FX SMF(20km) B model	20km	1550nm / 13100nm	-8	-14	-31	0
100FX SMF(35km)	35km	1310nm	-5	-9	-32	-5
100FX SMF(50km)	50km	1310nm	-0	-5	-34	-8
100FX SMF(60km) A model	60km	1310nm / 1550nm	0	-5	-34	0
100FX SMF(60km) B model	60km	1550nm / 13100nm	0	-5	-34	0

3.3 PHYSICAL SPECIFICATIONS

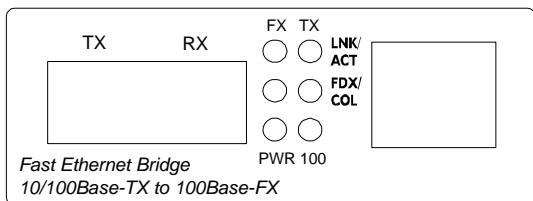
Dimensions

26 x 70 x 97mm (H x W x D)

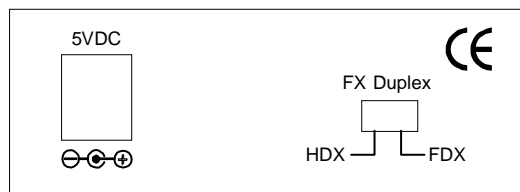
Weight:

0.2 kg

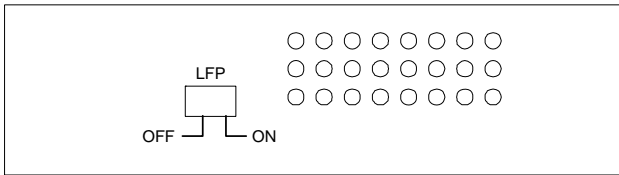
Right View (FX connector varies on model)



Left View



Side View



LED Definition

LED	Color	Description
FX LNK / ACT	Green	Blinks: Indicates FX packets are transmitting and receiving. Lit: Indicates fiber connection is good.
TX LNK / ACT	Green	Blinks: Indicates TP packets are transmitting and receiving. Lit: Indicates TP connection is good.
FX FDX / COK	Green	Lit: Indicates full-duplex mode is enabled in FX port. Blinks: Indicates FX port is in half-duplex mode and is experiencing collision.
TX FDX / COL	Green	Lit: Indicates full-duplex mode is enabled (detected by auto-negotiation) in TP port. Blinks: Indicates TP port is experiencing collision.
100	Green	Lit: Indicates TP port runs at 100Mbps. Off: Indicates TP port runs at 10Mbps.
PWR	Green	Lit: Indicates +5VDC power is detected.

3.4 ENVIRONMENTAL SPECIFICATIONS

Operating:

- Temperature:** 0 ~ 50 degrees C
- Relative Humidity:** 5 ~ 95% (non-condensing)

Storage:

- Temperature:** -10 ~ 70 degrees C
- Relative Humidity:** 5 ~ 95% (non-condensing)

3.5 ELECTRICAL SPECIFICATIONS

Power Requirements: 5V DC, 2A

3.6 REGULATORY COMPLIANCE

FCC Class A, CE Class A

3.7 Reliability

MTBF > 50,000 hrs @ 25 degrees C

3.8 BASIC PACKAGING

- Fast Ethernet Bridge Media Converter x 1
- AC-DC Power Adapter (Output: 5VDC, 2 A max.) x 1
- User's Manual x 1

Confidential

3.9 PACKING INFORMATION

Dimensions

280x 133x 66mm (W x D x H)

Weight

TBD (gross weight)

20pcs in one canton