1. Package Contents

Thank you for purchasing PLANET 1-Port 10/100BASE-TX 802.3af PoE to 100BASE-FX Media Converter, FTP-802 or FTP-802TS15.

Open the box of the FTP-802 series and carefully unpack it. The box should contain the following items:



If any item is missing or damaged, please consult your dealer immediately; if possible, retain the carton including the original packing material, and use them again to repack the product in case there is a need to return it to us for repair.

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2. Product Features

> Interface

- 1 RJ45 interface
- 1-port Data + Power output
- Auto negotiation
- Auto-MDI/MDI-X
- 1 fiber optic port
- FTP-802: SC fiber interface, 2km
- FTP-802S15: SC fiber interface, 15km
- DC 48V power input socket

> PoE

- Complies with IEEE 802.3af standard, end-span PSE
- Provides DC 48V power over RJ45 Ethernet cable to devices with Ethernet port
- Supports PoE Power up to 15.4 watts for PoE port
- Auto-detects PoE IEEE 802.3af equipment; protecting the devices from being damaged by incorrect installation
- Remote power feeding up to 100m
- IEEE 802.3af splitter devices compatible

> Hardware

- Metal case
- LED indicators:
- System: Power, Status
- FX/LNK: Data Active, Fiber Link

- TX/LNK: 10/100 Link/Active
- PoE in Use: Detect PSE Device
- DIP-switch: LFP (Link Fault Pass-through) mode selection

> Standard Compliance

- IEEE 802.3 10BASE-T
- IEEE 802.3u 100BASE-TX
- IEEE 802.3u 100BASE-FX
- IEEE 802.3x Flow Control
- IEEE 802.3af Power over Ethernet Standard
- FCC Part 15 Class A, CE

3. Hardware Introduction

3.1 Front Panel and LED Indicators

■ FTP-802/FTP-802S15 Front Panel

There are one RJ45 twisted-pair jack (auto MDI/MDI-X), one fiber-optic connector (vary by model) and four LED indicators.



Figure 1: Right View of the FTP-802/FTP-802S15

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■ FTP-802/FTP-802S15 LED Indication

> System

LED	Color	Function
PWR	Green	Lit to indicate the device is powered.

> 10/100BASE-TX Port

LED	Color	Function	
LNK/	Green	Blink	Indicates that the PoE Media Converter is actively sending or receiving data over that port.
ACT		Light	Indicates that the port is linked up at 10/100Mbps.
		Off	Indicates that the port is linked down.
PoE in	Green	Light	Indicates that the port is providing DC 48V to remote powered device.
Use		Off	Indicates that the port is not providing DC 48V to remote powered device.

> 100BASE-FX Fiber Port

LED	Color	Function	
LNK/ ACT	Green	Blink	Indicates that the PoE Media Converter is actively sending or receiving data over that port.
ACI		Light	Indicates that the port is linked up.
		Off	Indicates that the port is linked down.

3.2 Rear Panel and Mode DIP Switch

- Mini-IEC jack (DC 48V input) for power adapter.
- One DIP switch for Link Fault Pass-through (LFP) feature:
- > "ON" to turn on the LLCF and LLR detection.
- > "OFF" to turn off this feature. Please refer to the following sections for more.



Figure 2: Rear View of the FTP-802/FTP-802S15

5. Installing The Converter

To install Fast Ethernet 802.3af PoE Media Converter, simply complete the following steps; please follow these steps to install the Fast Ethernet 802.3af PoE Media Converter:

Ethernet Installation

- **Step 1:** Turn off the power of the device/station in a network to which the FTP-80x will be attached.
- **Step 2:** Ensure that there is no activity in the network.
- **Step 3:** Attach fiber cable from the FTP-80x to the fiber network. TX, RX must be paired at both ends.
- **Step 4:** Attach a Cat.5/5e UTP cable from the 10/100BASE-TX network to the RJ45 port on the FTP-80x.
- **Step 5:** Connect the 48V DC power adapter to the FTP-80X and verify that the Power LED lights up.

4. Link Fault Pass-Through (LFP)

The LFP function includes the Link-Fault-Passthrough function (LLCF/LLR) and the DIP Switch design. LLCF/LLR can immediately alarm administrators the issue of the link media and provide efficient solution to monitor the network. The DIP Switch will disable or enable the LFP function.

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LLCF (Link Loss Carry Forward) means when a device is connected to the converter and the TP line loses the link, the converter's fiber will disconnect the link of transmit. LLR (Link Loss Return) means when a device is connected to the converter and the fiber line loses the link, the converter's fiber will disconnect the link of transmit.



LFP function is ON by default setting.

If you are familiar with the network installation and for diagnostic purpose (i.e. check which end is broken), you can turn it off and reset the converter to make it take effect. Otherwise, please remain it in the default position.

Step 6: Turn on the power of the device/station; the TX Link and FX Link LEDs should light up when all cables are attached.

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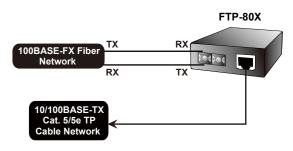


Figure 3: FTP-802/FTP-802S15 Installation



RJ45/STP, UTP Cat5/5e, or straight/crossover cable is accepted; please refer to section 8 for more about the wiring distance of your TP, optic-fiber networks.

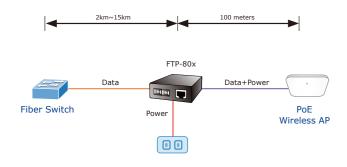
- 2 - - 6 - - 8 -

The installation of the FTP-802/FTP-802S15 and the IEEE 802.3af Injector/Splitter

Before your installation, it is recommended to check your network environment. If there is any IEEE 802.3af devices that need to be powered on, the FTP-80x can provide you a way to supply power for this Ethernet device conveniently and easily.

The FTP-80X is equipped with an AC-DC adapter with DC 48V input and injects this DC power into the pin of the twisted-pair cable (Pins 1, 2, 3 and 6).

For the places hard to find the power inlet, the FTP-80X provides the easiest way to power your Ethernet devices such as PLANET IEEE 802.3at/802.3af Power over Ethernet Splitter (POE-161S/162S) with Internet Camera or PoE Wireless Access Point installed in a wide-ranging place.



7. Product Specifications

Product		FTP-802	FTP-802S15		
Interface Specifications					
Copper		1-Port Fast Ethernet TP interface, autonegotiation, auto MDI/MDI-X with PoE injector function			
	Fiber Port Type (connector)	SC	SC		
	Cable Distance	2km	15km		
Fiber	Optical Frequency	1300nm	1310nm		
riber	Launch Power (dBm)	Max14/Min19.0	Max7/Min20		
	Receive Sensitivity	-34.5	-28		
	Maximum Input power	-14	-8		



User's Manual

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100BASE-FX to 10/100BASE-TX **PoE Media Converter**

► FTP-80X Series



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6 Cable Connection Parameter

The v	viring	details	are	shown	below:
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The wiring details are shown below:					
Duplex	Connection	Limitation (Max.)			
Twisted Pair					
Half/Full	Node to Node Node to Switch/Hu	b 100 meters			
Multi-Mode C	onverter				
MM Half	Node to Node Node to Switch	412 meters			
MM Full	Node to Node Node to Switch	FTP-802: 2 kilometers			
Single-Mode	Single-Mode Converter				
SM Full	Node to Node Node to Switch	FTP-802S15: 15 kilometers			
Fiber Optic C	ables				
Standard (Wavelength)	100BASE-FX (1	.310nm)			
100BASE-FX (1310nm)	Multi-mode: 50 Single-mode: 9)/125µm or 62.5/125µm)/125µm			

Hardware Specifications			
Switch Architecture	Store-and-Forward		
Flow Control	Back pressure for Half Duplex mode IEEE 802.3x Pause frame for Full Duplex mode		
LED	System: Power, Status (Green) FX/LNK: Data Active, Fiber Link (Green) TX/LNK: 10/100 Link/Active (Green) PoE in Use: Detect PSE Device (Green)		
Dimensions (H x W x D)	26 x 70 x 97mm		
Weight	0.2kg		
Power Supply	48V DC, 0.4A external AC-to-DC adapter		
Temperature	0~50 degrees C		
Humidity Operating	5~90% (non-condensing)		
LFP Mode	Enable: Either TP port or FX port is broken, shut down the other port Disable: Link LED indicators still on if connection of the other end is broken		

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10F., No. 96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan

Power Over Ethernet			
PoE Standard	IEEE 802.3af Power over Ethernet		
Power Output	PoE 48V DC, Max. 15.4 watts, 350mA		
Power Pin Assignment	1/2(+), 3/6(-)		
Standards Conformance			
Regulatory Compliance	FCC Part 15 Class A, CE		
Protocols and Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet		
	TP: Cat 5/5e UTP cable		
Cables	Fiber: Multi-mode: 50/125µm or 62.5/125µm optic fiber	Fiber: Single-mode: 8.3/125, 8.7/125, 9/125µm optic fiber	



EC Declaration of Conformity

For the following equipment:

*Type of Product : 100Base-FX to 10/100Base-TX PoE Media Converter

*Model Number

* Produced by:

* Produced by:

Manufacturer's Name
Manufacturer's Address:

: Planet Technology Corp.
: 10F., No.96, Minquan Rd., Xindian Dist., New Taipei City 231, Taiwan, R.O.C.

is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Laws of the Member States relating to Electromagnetic Compatibility Directive on 2014/30/EU.

For the evaluation regarding the EMC, the following standards were applied:

EN 55032 (2012/AC:2013) EN 61000-3-2 (2014) EN 61000-3-3 (2013) EN 55024 (2010)

Company Name: Planet Technology Corp.

☑ Manufacturer ☐ Authorized representative established within the EU

Authorized representative established within the EU (if applicable):

Company Address: 10F., No.96, Minguan Rd., Xindian Dist., New Taipei City 231, Taiwan, R.O.C.

Person responsible for making this declaration Name, Surname Kent Kang Position / Title: Director

Taiwan

March 23, 2017



PLANET TECHNOLOGY CORPORATION