

100Base-FX to 10/100Base-TX PoE Media Converter



More than a Fiber Media Converter and also can be a Power over Ethernet Injector as well!

The best data link and power sourcing solution for long reach network equipment

The PLANET FTP-80x series are the great ideal for remote network equipment deployments; It integrated the below two networking technologies:

- **Media Conversion: 100Base-FX to 10/100Base-TX**
- **Power over Ethernet: Power Sourcing Equipment (PSE), PoE Injector**

Providing both PoE and Fiber Optical interfaces, the FTP-80x are ideal for service providers, campuses and public areas requiring to deploy the PoE for the wireless access points, IP-based surveillance cameras or IP phones in any places easily, efficiently and cost effectively.

PoE Optimizes the Installation and Power Management of Network Devices

IEEE 802.3af capabilities of FTP-80x reduce installation costs for many new network productivity devices. As an IEEE 802.3af Power over Ethernet Injector, FTP-80x provides DC 48V voltage over Ethernet cables. It allows the twisted pair cable between the FTP-80x and IEEE 802.3af compliant PD (Powered Device) or PoE Splitter (such as POE-151S-5V/12V) to transfer data and power simultaneously.

Fiber-Optical Link Capability Extend the Range of Network Deployments

The maximum distance from the PoE PSE to PD is 100 meters. To extend the deployment range of network device, the FTP-80x are integrated with Fiber interface. The FTP-80x PoE Media Converters are used to convert optical Ethernet signal to electrical Ethernet signal that allows two type

segments to connect easily, efficiently and inexpensively. It can convert 10/100Base-TX signal to 100Base-FX signal and provides the diverse fiber connecting types of options to meet different network applications. By selecting models, the maximum networking distance can extend to as long as 15 kilometers and still sustain the transmission performance as high as 100Mbps. It works in high performance of Store and Forward mechanism and also can prevent packet loss with IEEE 802.3x Flow Control (Full-Duplex). With the LFP (Link Fault Pass Through function),(LLCF/LLR) and the DIP Switch design, it can immediately alarm administrators problems of the link media and provide efficient solution to monitor the net. The DIP Switch provides for disabling or enabling the LFP function.

Advantage of Combing PoE and Media Conversion

With the data, long reach fiber capability and PoE from one unit, the FTP-80x shall reduce cables and eliminate the need for dedicated electrical outlets on the wall, ceiling or any unreachable place. It frees the Security IP Camera and wireless AP deployment from restrictions due to power outlet locations. Power and data switching are integrated into one unit and delivered over a single cable, eliminating costs for additional AC wiring and reducing installation time.

KEY FEATURES

- Complies with IEEE 802.3, IEEE 802.3u 10/100Base-TX, 100Base-FX, IEEE 802.3af Power over Ethernet standards
- Auto-Negotiation for 10/100Base-TX Half Duplex mode or Full Duplex mode, Auto-MDI/MDI-X function on copper port
- IEEE 802.3x Full Duplex Flow control and back pressure in Half Duplex eliminate packets loss
- Provides DC 48V power over RJ-45 Ethernet cable to devices with Ethernet port
- Auto-detect of PoE IEEE 802.3af equipments protects devices from being damaged by incorrect installation
- 100Base-FX interface for up to 2km (Multi-mode fiber 50µm/125µm, 62.5µm/125µm) on FTP-802
- 100Base-FX interface for up to 15km (Single-mode fiber 9µm/125µm) on FTP-802S15
- DIP-switch: LFP (Link Fault Pass-through) mode selection
- Compact in size, easy installation
- LED indicators for easy network diagnose

SPECIFICATION

| Product | FTP-802 | FTP-802S15 |
|------------------------------------|---|--|
| Interface | | |
| Copper | 1-Port Fast Ethernet TP interface, Auto-negotiation, Auto MDI/MDI-X with PoE injector function | |
| Fiber | Multi-mode: 50/125 μm or 62.5/125 μm optic fiber | Single-mode: 8.3/125, 8.7/125, 9/125 μm optic fiber |
| Fiber Port Type (connector) | SC | SC |
| Cable Distance | 2km | 15km |
| Optical Frequency | 1300nm | 1310nm |
| Launch Power (dBm) | Max. -14 Min.-19.0 | Max. -7 Min.-20 |
| Receive Sensitivity | -34.5 | -28 |
| Maximum Input power | -14 | -8 |
| Power Over Ethernet | | |
| PoE Standard | IEEE 802.3af Power over Ethernet | |
| Power Output | PoE 48V DC, Max. 15.4watts, 350mA | |
| Power Pin Assignment | 1/2(+), 3/6(-) | |
| Hardware Specification | | |
| 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 FX / LNK: Data Active, Fiber Link. TX / LNK: 10/100 Link/Active PoE in Use: Detect PSE Device. | |
| Dimensions (H x W x D) | 26 x 70 x 97mm | |
| Weight | 0.2 kg | |
| Power Supply | 48V DC, 0.4A External AC-to-DC adapter | |
| Temperature | 0~50 degree 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 | |
| Standards Conformance | | |
| Regulation Compliance | FCC Part 15 Class A, CE IEEE 802.3 Ethernet, | |
| Protocols and Standards Compliance | IEEE 802.3u Fast Ethernet, IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet | |
| Cables | TP: Cat 5/5e UTP cable Fiber: Multi-mode: 50/125 μm or 62.5/125 μm optic fiber | Single-mode: 8.3/125, 8.7/125, 9/125 μm optic fiber |

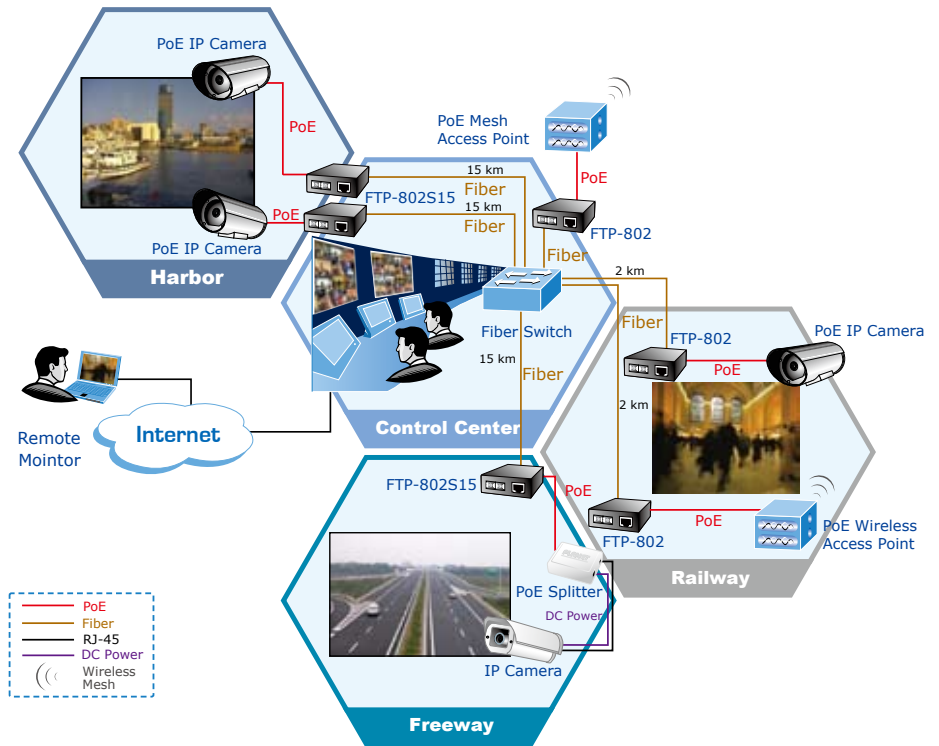
ORDERING INFORMATION

| | |
|-------------------|--|
| FTP-802 | 100Base-FX to 10/100Base-TX PoE Media Converter (SC,MM)-2km |
| FTP-802S15 | 100Base-FX to 10/100Base-TX PoE Media Converter (SC,SM)-15km |

APPLICATIONS

The IEEE 802.3af equipment installation:

For easy finding the power inlets,, the FTP-80X provides the easiest way to power your Ethernet devices such as PLANET IEEE 802.3af Power over Ethernet Splitter (POE-151S / 152S) with non PoE Internet Camera or Wireless PoE Access Point (WAP-4060PE). For instance, Security IP Camera, Wireless Access Point and other IEEE 802.3af compliant network equipments can be easily installed around corners in public areas such as stations or freeways for surveillance demands, or built a wireless roaming environment in campuses or airports.



RELATIVE PRODUCTS

| | |
|---------------------|---|
| POE-151S-5V | IEEE 802.3af Power Over Ethernet Splitter with 5VDC output (Mid-Span), (10/100Mbps) |
| POE-151S-12V | IEEE 802.3af Power Over Ethernet Splitter with 12VDC output (Mid-Span), (10/100Mbps) |
| POE-152S-5V | IEEE 802.3af Power Over Ethernet Splitter with 5VDC output (End-Span), (10/100/1000Mbps) |
| POE-152S-12V | IEEE 802.3af Power Over Ethernet Splitter with 12VDC output (End-Span), (10/100/1000Mbps) |
| FSD-803PE | 8-Port 10/100Mbps Fast Ethernet Switch w/ IEEE 802.3af splitter built-in |
| ICA-107P | PoE CMOS IP Camera |
| ICA-310 | 30-meter Infrared Internet Camera |
| ICA-700 | CCD Box Internet Camera |
| ICA-750 | Dual Mode CCD Box Internet Camera |
| IVS-110 | 1-Channel Internet Video Server |
| WAP-4033PE | 54Mbps Wireless PoE Access Point |
| WAP-4060PE | 54/108Mbps Super G Wireless LAN Managed Access Point with PoE |
| WDAP-2000PE | 54/108Mbps Super A+G WLAN Managed Access Point with PoE |
| VIP-154PT | SIP PoE IP Phone |
| VIP-155PT | Power over Ethernet SIP IP Phone |
| VIP-156PE | 802.3af PoE SIP Analog Telephone Adapter |
| VIP-350PT | Business PoE IP Phone |
| ICA-510 | Dual Mode CCD Dome Internet Camera |
| ICA-230 | CMOS PoE PT Internet Camera |
| ICA-M230 | Mega-Pixel CMOS PoE PT Internet Camera |
| VIP-550PT | Professional PoE IP Phone |