Specifications

Ports	100/1000 Base –X SC Port 10/100/1000Base-T Ports, 1
Copper Interface	RJ-45 PoE,up to 30w (802.3af/t), auto-negotiated
Optical Interface	SC via WDM Type A 1310tx/1550rx
Standards Compliance	IEEE 802.3z, 1000Base-SX/LX IEEE 802.3x Full-duplex flow control IEEE 802.3af PoE up to 15.4w IEEE 802.3at PoE+ up to 30w
MAC Table Size	2K
Jumbo Packet Size	9K
Back Bandwidth	4G
LED Indicators	Power, PoE (yellow) 100, 1000, Fiber, Twisted Pair (green)
Power	Input Voltage: 48-55vdc Power Consumption: 5W-35W
Emissions	FCC Class A CE Class A RoHS / CCC
Working Environment	Operating Temperature: -20 ~ 75℃ Storage Temperature: -40 ~ 85℃ Relative Humidity: 5-95% (non-condensing)
Dimension	1.0" H x 5.2" D x 1.63" W
Weight	6 oz
Warranty	3 Years From Purchase (industry leading)
Included Accessory	48vDC quad-output power supply

IFP Connect

www.ifpconnect.com

5552 N. Eagle Rd. Ste. 102, Boise 83713

866-437-2666 (IFP-CONN)

1-Port PoE Transceiver User's Manual

Assembled in the U.S.A.

1 Port PoE Transceiver User Manual

Overview

Welcome to IFP! Our products were specifically invented and engineered for the integrator, to allow TCP/IP traffic to be sent over fiberoptic cable at distances up to 1000' (longer with local power), giving your client a truly future proofed structure. The IFP 1-port PoE transceiver is truly revolutionary, allowing fiber and 2-conductor wire to be used for devices like cameras, access points, and touchpanels. When combined with our network switch and other transceiver products, you have a network that is truly ready for tomorrow.

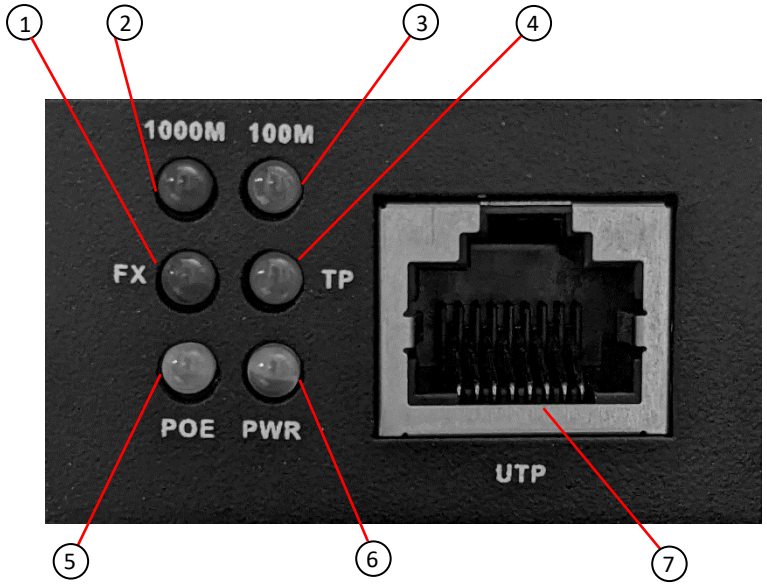
Please make sure and join our community at www.ifpconnect.com plus share your feedback, ideas, comments, and experiences via connect@ifpconnect.com. We look forward to hearing from you!

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Install Checklist

Before installing the PoE transceiver, verify that your install meets the requirements for an IFP network:

1. Each PoE transceiver location is free of moisture and has room in the soffit or wall for the module.
2. Single mode single strand fiber, terminated with SC connectors
3. 18/2 power wire, not to exceed 1000' from the dedicated PoE 4-output power supply.
4. IFP fiber switch at the head end (sold separately)
5. 48vdc supply, included.



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1	Fiber connectivity light
2	1000mb connectivity/traffic on RJ45
3	100mb connectivity/traffic on RJ45
4	RJ45 connected
5	PoE output enabled
6	Poe Transceiver power
7	RJ45 connector

LED Description

1 - The 'FX light will illuminate when the IFP transceiver can send and receive network traffic back to the IFP switch.
2 - The '1000M' light will illuminate if an auto-negotiated connection exists to the RJ45 connected device. Note that since this is auto-negotiated, it will only light if the connected device is also 100Mb.
3 - The '100M' light will illuminate if the slave device is only 100Mb.
4 - The 'TP' light will illuminate when a device is connected to the RJ45 and the applicable device is powered on.
5 - The 'POE' light will illuminate when an auto-negotiated PoE device is connected and the transceiver is outputting PoE or PoE+ power on the RJ45.
6 - The 'PWR' light will indicate if the PoE transceiver is receiving power from the 48vdc power supply at the head-end.
7 - Auto-negotiating standard, PoE, or PoE+ RJ45 connector.

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Install

Installation of the 1-port PoE transceiver will take about 30 seconds!

After verifying the install meets the requirements, verify the IFP network switch is online and the included 48vdc PoE power supply is installed and online.

Connect the power to the PoE transceiver and verify power light illuminates. The power light on the face will illuminate even when no fiber connection exists.

After verifying a green power light connect the fiber cable. Upon connection of both the fiber and power wires the two green lights on the face should illuminate. These are diagnostic lights for the installer and operate exclusively, i.e. each one is exclusive to the specific connection.

Once both status lights are green, connect an applicable PoE device and verify the PoE, network speed, FX, TX, power light are all illuminated. If five of the six LEDs are not illuminated (only the 100MB or 1000MB will light), troubleshoot your connections before proceeding. Upon five LEDs properly lit, install the transceiver in the wall or ceiling, verifying, using care to not kink or damage the fiber connector or power wires.

1-Port PoE Transceiver User's Manual

Troubleshooting/FAQs

- Why can't I power the PoE module from the same power supply and PDU as the in-wall transceivers?
  - Because PoE requires 48v it is not possible to power it from a 12v source. Therefore a 48v supply is used to both power the transceiver AND provide PoE+ 30w power to the connected device. This way you only need one power supply, which we obviously include in the box.
- Can I use the PoE module to power standard PoE devices like a copper network switch?
  - Of course. Because our devices feature industry-standard PoE an PoE+ support, it will support any device compliant with this standard.
- I have a green power light but my fiber light won't light up, even though I am plugged into the fiber switch on the other end.
  - Verify the terminations of your fiber. This can be done via a VFL to verify the fiber passes light.
  - Verify the fiber is fully seated on both ends, and that the fiber switch is powered up. Although an RJ45 connection on the IFP switch is not required, the fiber switch does need to be powered on for the fiber light on the transceiver to light up.
- Why are there so many status lights on the PoE transceiver?
  - This allows you as the installer to easily know the status of both the upstream and downstream connection, without having to go look at the status lights at the other locations.
- We also have a fiber wiping tool. When should I use it?
  - The cleaning tool should be used anytime a connector tip is touched, or a dust cap is missing from a transceiver or switch. The tool quickly and easily cleans the face of the connector, helping ensure top network performance.
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- Why is the PoE module shaped the way it is instead of a standard in-wall junction box shape?
  - Rarely is PoE needed at a wallplate. The most frequent applications are access points (WiFi antennas), cameras, and user interfaces like touchpanels. So we designed it to easily fit into a wall cavity, soffit, or attic space.
- I accidentally installed multimode cable instead of single mode. What are my options?
  - Unfortunately multimode fiber does not support WDM, the core technology that allows IFP to send and receive data over a single strand of fiber. Therefore, you will need to replace the cable with single-mode fiber, or install multimode to single mode converters in the wall between the multimode fiber and the IFP transceiver. Feel free to reach us at connect@ifpconnect.com if you need help!

Contact Information

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