Specifications

Ports	8*1000 Base –SX/LX SC/SFP Port 2*10/100/1000Base-T RJ45 Port
Copper Interface	RJ-45 port(Auto-MDI/MDI-X) Twisted Pair
Optic Interface	SC
Standards Compliance	IEEE 802.3, 10Base-T IEEE 802.3u, 100Base-TX IEEE 802.3x Full-duplex flow control
MAC Table Size	8K
Buffer Space	4.1M
Back Bandwidth	20G
LED Indicator	PWR TP LINK/ACT Fiber LINK/ACT
Power	Input Voltage: AC100V～ 240V /DC 12V2A Power Consumption: 4W-8W
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	8.5"W x 5.25"D x 1.2"H
Weight	19.8 oz
Warranty	3 Years (industry leading)

IFP Connect

www.ifpconnect.com

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866-437-2666 (IFP-CONN)

Assembled in the U.S.A.

8 + 2 Fiber + Copper Switch User Manual

8 + 2 Network Switch + PDU + Dual Power Supply

User Manual/Install Guide

Overview

Welcome to IFP! Our products were specifically invented and engineered for the integrator, to allow TCP/IP traffic to be sent over single-mode fiberoptic cable at distances up to 1000’ (longer with local power), giving your client a truly future proofed structure. The 8 + 2 fiber/copper switch is paired with our exclusive 1-port, 4-port, and PoE transceivers, creating a full fiber network, providing faster install time, more consistent traffic speeds, and unlimited future functionality as our product line expands.

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 IFP network switch, verify that your install meets the requirements for an IFP network:

1. The network switch and Power Distribution Unit (PDU) must be mounted in an area free of dust and that allows sufficient ventilation. A media can with open vents or a couple rack spaces works great. You will also need a 15a (non-dedicated) outlet for the dual output power supply.
2. Single mode single strand fiber, terminated with SC connectors, from the head end to each desired transceiver.
3. 18/2 power wire, not to exceed 1000' from the IFP Power Distribution Unit to each transceiver. Category cable may be used, but individual conductors must be twisted together so that there are four conductors per each positive and negative lead.

Products Overview

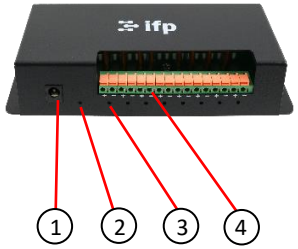
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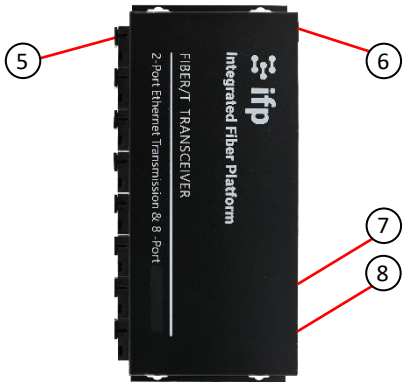
- High power 12vdc power supply
- 12vdc y-adapter
- 8-output transceiver PDU
- 8 fiber x 2RJ45 gigabit unmanaged network switch

This kit includes not only the 8 port fiber switch but also the Power Distribution Unit for up to eight (8) transceivers. The power supply was specifically designed to drive eight (transceivers) and the network switch so install only requires a single outlet.

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Power Distribution Unit: 8 + 2 Fiber/Copper Switch





1	12vdc in, From IFP Power Supply
2	PDU Power Status Light
3	12vdc Output Status Light, Per Port (qty 8)
4	Spring-style 18awg Transceiver Wire Connectors
5	1000 Base-T SC-Style WDM-compliant Connector
6	12vdc in, From IFP Power Supply
7	Fiber port and device power status lights
8	100/1000mb RJ45 Input/Output Connectors (qty 2)

LED Description

1 - The power status LED will glow when 5-12vdc is sensed on the red/black spring power connector.
2 - The fiber status LED glows when there is fiber communication between the transceiver and IFP fiber switch.

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3 - The ethernet port includes a green light to indicate connection to a network device and the orange light will flicker to indicate network traffic.
4 - The fiber port is ONLY compatible with SC UPC connectors. The device uses WDM technology to allow send and receive over a single strand of fiber so there is only one fiber connector.
5 - Both the 1-port and 4-port transceivers operate on 5-12vdc. They should be powered via the PDU that is included with the network switch, however a local power supply may be used if installed wire length exceeds 1000' (333m).

Install

NOTE: WE RECOMMEND INSTALLING THE SWITCH AND PDU AND MAKING ALL CONNECTIONS BEFORE INSTALLING TRANSCEIVERS. THIS WILL ALLOW THE STATUS LIGHTS ON EACH TRANSCEIVER TO PROVIDE PROPER FEEDBACK OF POWER AND FIBER CONNECTIONS.

After verifying the fiber and power wire meets the install requirements, mount the PDU and network switch at the head end. Both devices should be installed near each other so that the power cord can be routed between both devices. Although not needed for install and verification of an IFP system, an RJ45 interconnect will need to be installed between the IFP switch and the applicable router before use. This will feed network traffic in and out of the fiber network.

Connect the 12vdc power connector to the switch and PDU, and verify power lights illuminate. If no power lights are present, check your power supply connections and circuit breaker, as these should illuminate even when no fiber or power is connected.

Next connect the 18/2 to the spring connectors on the PDU. If the applicable green power light illuminates (and no transceiver is installed on the other end), there is a short in your 18/2. Troubleshoot and resolve before proceeding.

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Next, connect one of the fiber cables to each port on the switch, via SC-UPC connectors. Note that the connectivity lights on the switch will not illuminate since the transceivers are not connected on the other end. And because IFP was invented by integrators, for integrators, IFP performs send and receive over a single strand, meaning you need half as many connectors and half as much time!

Once all fiber cables are connected to the switch and all power cables are connected to the PDU, install the transceivers per the install guide.

Troubleshooting/FAQs

- Can we use a different network switch, other than yours?
  - The IFP network switch has exclusive technology designed specifically for our transceivers. At this time our network switch is required, but we are always listening so there may be additional products in the future to use layer 2 and layer 3 managed switches. Stay tuned!
- I also have PoE transceivers, can I power them from the PDU?
  - PoE requires 48v instead of 12v like our in-wall transceivers, so PoE transceivers must use the 4-output power supply that shipped in the box.
- The green light below one of the power connectors illuminated, but I don't have a transceiver connected on the other end of the 18/2.
  - This means that you have a short in your 18/2. Root cause the short before proceeding.

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Contact Information

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