Specifications

Ports	100/1000 Base –X SC Port 10/100/1000Base-T Ports, 1 or 4
Copper Interface	RJ-45 port(Auto-MDI/MDI-X) Twisted Pair
Optical Interface	SC via WDM Type A 1310tx/1550rx
Standards Compliance	IEEE 802.3, 10Base-T IEEE 802.3u, 100Base-TX IEEE 802.3ab, 1000Base-T IEEE 802.3z, 1000Base-SX/LX IEEE 802.3x Full-duplex flow control
MAC Table Size	2K
Jumbo Packet Size	9K
Back Bandwidth	4G
LED Indicator	Power + Fiber Link (behind trim) 100/1000 Connection (at RJ45)
Power	Input Voltage: DC5-12VDC Power Consumption: 3W-9W
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	2.90" H x 3.27" D x 1.54" W
Weight	5oz - 6oz
Warranty	3 Years From Purchase (industry leading)
Required Accessory	Decora trim, white or light almond

IFP Connect

www.ifpconnect.com

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

866-437-2666 (IFP-CONN)

Assembled in the U.S.A.

1/4 Port In-Wall Transceiver User's Manual

1 and 4 Port In-Wall 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 and 4-port transceivers are paired with either our SFP modules or our copper to fiber switch, 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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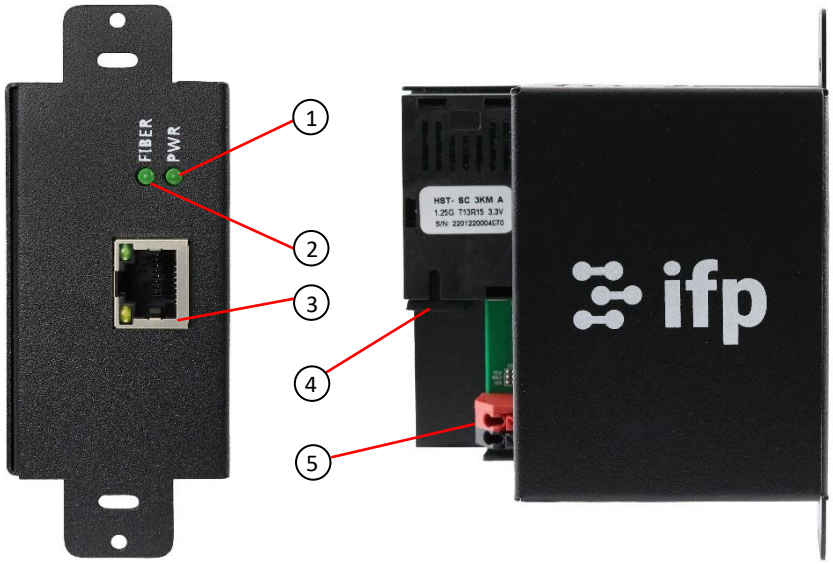
Install Checklist

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

1. Each transceiver junction box is a standard new construction or retrofit low voltage ring with an interior height of at least 2.90" and a depth of at least 3.30".
2. Single mode single strand fiber, terminated with SC connectors
3. 18/2 power wire, not to exceed 1000' from the IFP Power Distribution Unit. Category cable may be used if multiple conductors are used for each polarity.
4. IFP fiber switch at the head end (sold separately).
5. Applicable decora-style trim kits (sold separately) for each transceiver.



Single port version shown

1	Power status light
2	Fiber status light
3	100/1000 RJ45 ethernet port/s
4	1.25G Base-T Fiber Port
5	5-12vdc Input

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.
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/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).

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Install

Installation of the 1-port and 4-port transceivers will take about three minutes!

After verifying the install meets the requirements, verify the IFP Power Distribution Unit is powered on and the IFP network switch is installed and connected to the existing owner-furnished switch or router via a standard category cable. It is recommended that both of these devices are installed and online to expedite install and testing of the in-wall transceiver modules.

Connect the power to the transceiver and verify the green light on the face illuminates. If it does not light, do not proceed with fiber connection. The power light on the face should come on 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 fac should illuminate within three seconds. These are diagnostic lights for the installer and operate exclusively, however the green fiber light will not illuminate unless power is present.

Once both status lights are green, install the transceiver in the wall, using care to not kink or damage the fiber connector. Use a standard Philips screwdriver for install, then install the applicable IFP trim plate based on jobsite color requirements.

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Troubleshooting/FAQs

- Why do you require a ring instead of a sealed backbox?
  - IFP products are engineered to work in any environment, from Alaska to Arizona. However, as an electronic component they still require ventilation and a sealed electrical box does not allow applicable ventilation.
- My local electrical code requires sealed boxes on exterior walls, what can I do to make IFP products work in areas with similar building codes?
  - Although some codes are interpreted to mean that sealed boxes must be used on exterior walls, the law is typically instead defining the amount of air exchanges allowed between the wall cavity and the conditioned space. This requirement can be met by installing wall plate gaskets on the decora-style plate. If this solution is not sufficient, please contact us via connect@ifpconnect.com for alternative solutions.
- 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 is not required, the fiber switch does need to be powered on for the fiber light on the transceiver to light up.
- Why does the cover plate cover up the status lights?
  - These two lights are provided for technician use during installation and serve no purpose to the end user. To improve the end user experience these lights are covered to prevent any client questions or visual disturbances.

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- I installed a 1-port at the time of install, can I upgrade it later to a 4-port transceiver (or vice versa)?
  - Of course! IFP products were designed and engineered by integrators FOR integrators, so we made it so the 1-port and 4-port can be swapped, mixed, or replaced at any time without any effect on the ecosystem.
- I have more than eight home runs of fiber, how do I connect them?
  - This is exactly why our network switch has two RJ45 ports. This allows you to feed the IFP ecosystem via one RJ45 port, then use the other port to cascade switches, and there is no limit to how many can be cascaded.
- 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. 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!

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Contact Information

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