



IPFC-130:

Industrial 10/100Base-TX to 100Base-FX PoE PSE FE Media Converter

Key Features

- 10/100Base-TX UTP to 100Base-FX fiber media conversion
- IEEE802.3af PoE (Power over Ethernet) PSE compatible
- Internal DC power supply
- Over-current protection
- Under-current detection
- Minimum load sensing
- Fault Protection Input
- PSE MDI power enable/disable
- LFP(Link Fault Pass-through) and far end fault
- Choice of SC, ST, MTRJ, VF-45, BiDi or LC connectors for multimode and single mode
- DIP switch to set configurations
- RoHS Compliance
- Support industrial -10°C ~ 60°C operating temperature
- Alarm contact function
- DIN-Rail, Wall mount and Desktop for easy installation

Overview

IPFC-130 is a 10/100Base-TX to 100Base-FX media converter, which allows two types of network segments to be connected easily and inexpensively. Complied with IEEE802.3af Power Over Ethernet standard, this DC powered PoE media converter is a Power Sourcing Equipment (PSE) which combines data received over a fiber optic link with 48VDC power, providing power to IEEE802.3af powered device (PD) over the existing CAT UTP cable. The converter includes a PD signature sensing and power monitoring features. Other features include over-current protection, under-current detection and fault protection input. The LFP (Link Fault Pass-through) allows the media converter to monitor both the fiber and copper RX ports for loss of signal. In case of a loss of RX signal on one media port, the converter will automatically disable the

Technical Specifications

- **Standards:** IEEE802.3u 10/100Base-TX, 100Base-FX
- **Connectors:**
 - 10/100Base-TX:** STP RJ-45
 - 100Base-FX:** MM SC, SMSC, MM MTRJ, MM VF-45, SMBiDi, MM LC, SM LC
- **Cable:**
 - Cat. 5 cable (supports distance up to 100m)**
 - Fiber(MM):** 50/125, 62.5/125, 100/140µm (supports distance up to 2km)
 - Fiber(SM):** 8.3/125, 8.7/125, 9/125, 10/125µm (supports distance up to 100km)
- **Data Transfer Rate:**

Speed	Forwarding Rate
100Mbps	148,800 PPS
10Mbps	14,880 PPS
- **Flow Control:** IEEE802.3x for full-duplex
Backpressure flow control for half-duplex
- **LED Indicators:** FX Link/Act, FX FDX/Col, TX Link/Act, TX 100, PSE Power Good, PSE Power Bad, Power
- **Power Requirement:** DC 48V (power input by terminal block)
- **Power Consumption:** 15W Max
- **Operation Temperature:** -10°C~60°C
- **Humidity:** 5% 95%
- **Dimensions:** 40 (H) x 158 (W) x 133 (D) mm
- **Certification:** FCC Part 15 Class A & CE Mark

Order Information

IPFC-130ST	PSE(Power Source Equipment) 10/100Base-TX to 100Base-FX Media Converter
IPFC-130SC	SC Multi-Mode
IPFC-130SC.S05	SC Single-Mode 5km
IPFC-130SC.S20	SC Single-Mode 20km
IPFC-130SC.S40	SC Single-Mode 40km

Optional Accessories

- **MDR-20-24:** 24W/1A DIN-Rail 24V VDC Power Supply with universal 85 to 264 VAC input

TX signal to the other media port, thus passing through the link fault. FEF (Far End Fault) enables the converter to stop sending link pulse to the link partner once a loss of the fiber RX signal is encountered. Then the link partner will synchronously stop sending data. FEF prevents loss of valuable data transmitted over invalid link. Combining LFP and FEF troubleshooting features of IPFC-130, both end devices can be notified of a loss of fiber link.

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