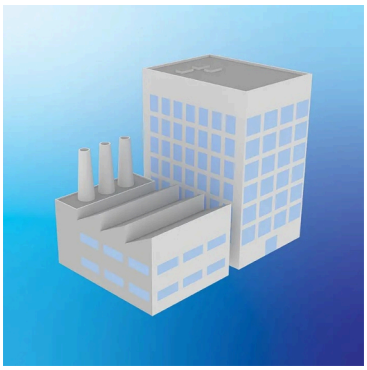
Industrial SFP to Gigabit PoE+ Media Converter

TI-PF11SFP (V4)

- 1 x Gigabit SFP port
- 1 x Gigabit PoE+ RJ45 port
- Provides up to 30W of power for PoE, and PoE+ compliant devices
- SFP port accommodates Multi or Single Mode fiber modules
- Up to 80km fiber networking distances with the TEG-MGBS80 SFP module
- Operating temperature range of -40° – 75° C (-40° – 167° F)
- Overload current protection
- 6kV RJ45 surge protection
- Includes DIN-Rail and wall mounts
- Powers supply sold separately (model: TI-S15052)
- NDAA / TAA compliant (U.S. only)

TRENDnet's Industrial SFP to Gigabit PoE+ Media Converter, model TI-PF11SFP, converts a long-distance fiber connection to a copper connection while providing power to PoE and PoE+ compliant devices, such as IP cameras, VoIP phones, and wireless access points. This PoE+ media converter is IP50 rated with hardened components rated for extreme industrial environments and an operating temperature range of -40°– 75° C (-40° – 167° F). The front panel DIP switches control Link Fault Pass Through (LFPT), and setting the device to switch/converter mode. The industrial PoE+ media converter's rugged design also provides protection from shock, freefall, and vibration.

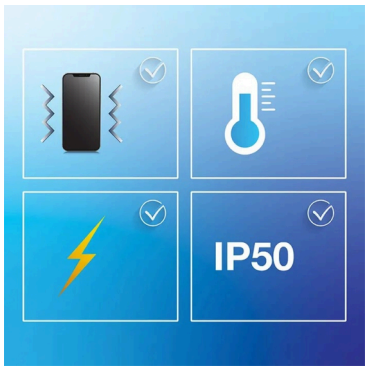


Industrial Applications

Networks devices for manufacturing, general industrial, warehousing, surveillance, and corporate applications.

PoE+ Output

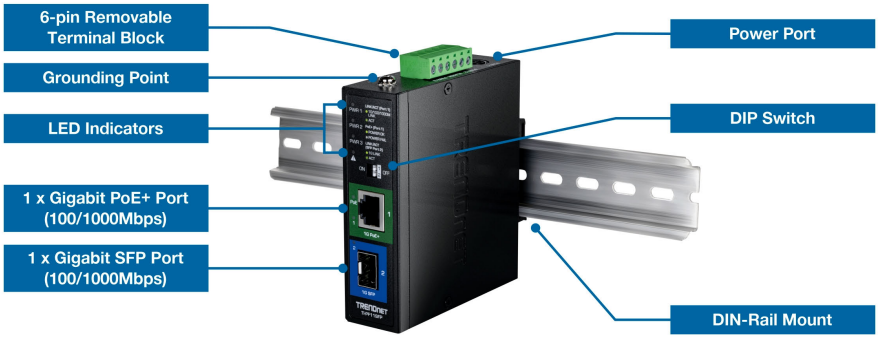
Converts long-distance fiber to copper while providing power to PoE and PoE+ compliant devices, such as IP cameras and wireless APs.

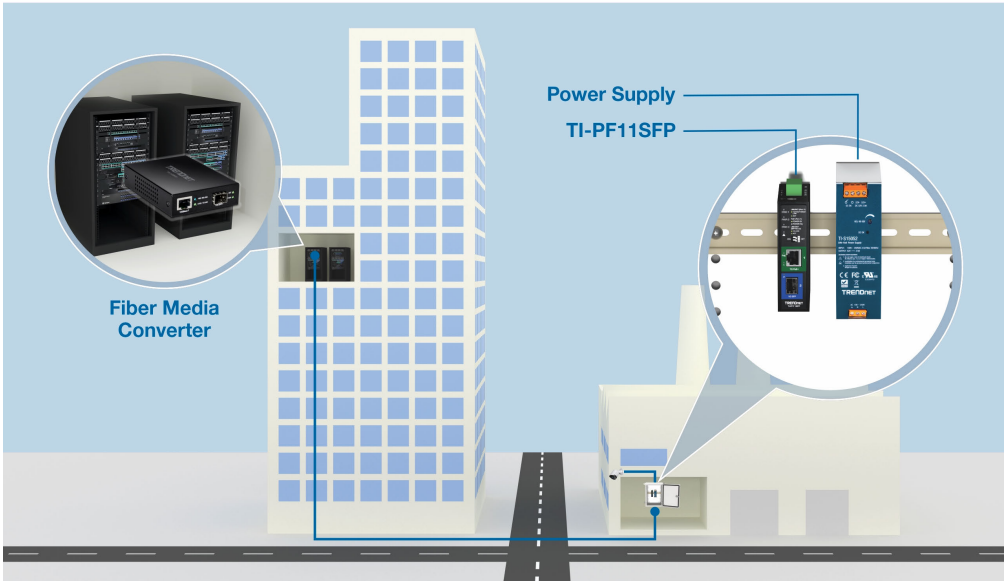


Industrial Hardened Design

Designed with a rugged IP50 rated housing, resistance to a high degree of vibration and shock, protection against ESD/EMI/surge, and operates within an extreme operating temperature range of -40° - 75° C (-40° – 167° F).

NETWORKING SOLUTION





FEATURES

Network Ports
1 x Gigabit PoE+ Ethernet port and 1 x SFP port

DIP Switches
1: Turns LFPT (Link Fault Pass Through) on/off
2: Converter mode / switch mode

Link Fault Pass Through
Easily enable the LFPT (Link Fault Pass Through) feature on the industrial multi-mode media converter using the front panel DIP switch to identify a link fault to the remote LFPT enabled media converter

Dust Protected
This industrial media converter is IP50 rated for ingress dust protection

Fault Tolerance
Features an output alarm relay to indicate an input power failure

Extreme Temperature
An extreme operating temperature range of -40° – 75° C (-40° – 167° F) allows for installations in industrial environments with intense hot or cold conditions

SFP Support
Supports Multi and Single mode SFP modules

Switching Capacity
4Gbps switching capacity

Jumbo Frame
Sends larger packets, or Jumbo Frames (up to 16KB), for increased performance

Surge Protection
6kV Ethernet surge protection

Shock and Vibration Resistant
Rated for shock (EN 60068-2-27), freefall (EN 60068-2-31), and vibration (EN 60068-2-6)

Electro Magnetic Compliance
Complies with industrial EMS certifications ESD (IEC 61000-4-2);
Contact: 6kV, Air: 8kV; EFT (IEC 61000-4-4): Power 2kV, Signal: 2kV; Surge (IEC 61000-4-5): Power: 2kV, Signal: 2kV

DIN-Rail/Wall Mounts
IP50 rated metal enclosure with included DIN-rail and wall mount hardware

Grounding Point
Grounding point protects equipment from external electrical surges

SPECIFICATIONS

Standards
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3z
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.3af
- IEEE 802.3at

Device Interface
- 1 x Gigabit PoE+ port (100/1000Mbps)
- 1 x Gigabit SFP port (100/1000Mbps)
- 6-pin removable terminal block
- LED indicators
- DIP Switch

Performance
- Data RAM Buffer: 64KB
- Jumbo Frame: 16KB

DC Power
- Input: 48-57V DC
- Compatible power supply: TI-S15052 (sold separately)
- Max. consumption: 2.44W (with no PD connected)

AC Power
- Input: 100 – 240V AC, 50/60Hz, 2A
- Compatible power adapter: 48VDC3000 (sold separately)
- Output: 48V DC, 3.34A 160W max.
- Max. consumption: 3.1W (with no PD connected)

PoE
- PoE budget: 30W
- Pins 3, 6 for power + and pins 1, 2, for power -

Terminal Block
- 6-pin terminal block
- Wire range: 1.5mm2
- Solid wire (AWG): 12-19
- Stranded Wire (AWG): 12-19
- Torque: 3.5 lb. – In / 0.39Nm / 0.5Nm
- Wire strip length: 7-8mm

Alarm Relay Contact
- Relay outputs with current carrying capacity of 1A, 24V DC
- Short circuit mode when only one power sources are connected
- Open circuit mode when only three power source is connected

DIP Switch
- 1: On (LFPT on – Default), Off (LFPT off)
- 2: On (Converter mode – Default), Off (Switch mode)

MTBF
- 2,320,000 hours @ 25° C

Housing
- IP50 metal case
- DIN-Rail mount
- Wall mount
- Grounding point
- ESD 6kV protection
- 6kV RJ45 protection

Operating Temperature
- -40° - 75° C (-40° - 167° F)

Operating Humidity
- Max. 95% non-condensing

Dimensions
- 98 x 90 x 28mm (3.9 x 3.5 x 1.1 in.)

Weight
- 304g (10.72 oz.)

Certifications
- CE
- FCC
- LVD
- Shock (IEC 60068-2-27)
- Freefall (IEC 60068-2-31)
- Vibration (IEC 60068-2-6)
- IEC 61000-4-2
- IEC 61000-4-4
- IEC 61000-4-5

Warranty
- 3-year

Package Contents
- TI-PF11SFP
- Removable terminal block
- DIN-Rail / wall mount kit

All references to speed are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

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