Hardened Industrial 100/1000 Base-T to SFP Media Converter

TI-F11SFP (v1.0R)

• Hardened IP30 rated 100/1000 Base-T Ethernet to SFP converter

• SFP port accommodates Multi or Single Mode fiber

• Up to 80 km fiber networking distances with the TEG-MGBS80 SFP module

• Includes DIN-rail and wall mounts

• Extreme -40 to 75 ºC (-40 to 167 ºF) operating temperature range

• Dual redundant power inputs with overload current protection

• Powers supply sold separately (model TI-M6024)

TRENDnet's TI-F11SFP is a reliable IP30 rated 100/1000 Base-T to SFP media converter with hardened components rated for extreme industrial environments. Set 100 or 1000 Mbps throughput speeds, Auto Negotiation, and Link Fault Pass Through (LFP) using the front panel dip switches. Dual redundant power inputs (power supply sold separately: TI-M6024) with overload current protection support zero downtime applications.

Network Ports
1 x Gigabit Ethernet port and 1 x SFP slot

Dip Switches
Dip Switch 1: 100 or 1,000 Mbps throughput speeds
Dip Switch 2: Enable/disable port Auto-Negotiation
Dip Switch 3: Converter or Switch mode
Dip Switch 4: Enable/disable Link Fault PassThrough (LFP) support

DIN-Rail/Wall Mounts
IP30 rated metal enclosure with included DIN-rail and wall mount hardware

Switching Capacity
2 Gbps switching capacity

Redundant Power
Dual redundant power inputs with overload current protection (power supply sold separately: model TI-M6024)

Jumbo Frame
Sends larger packets, or Jumbo Frames (up to 9 KB), for increased performance

Extreme Temperatures
Hardened converter is rated for an operating temperature range of -40 to 75 °C (-40 to 167 °F)

Electro Magnetic Compliance
Complies with FCC Part 15 Subpart B Class A and CE EN 55022 Class A standards

Certifications
Rated for information technology (ITE) equipment (EN55022/24) and industrial, scientific, and medical (ISM) Equipment (EN55011)

Shock and Vibration Resistant
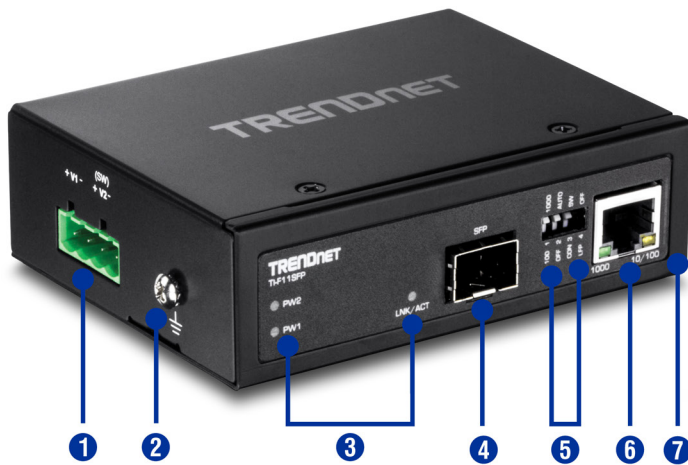Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-32), and vibration (IEC 60068-2-6)

Grounding Point
Grounding point protects equipment from external electrical surges

Networking Solution

1. Terminal block slot
2. Grounding point
3. LED indicators
4. SFP slot
5. DIP switches
6. Gigabit Ethernet port
7. IP30 rated metal housing
8. Terminal block
9. Wall mounting kit
10. DIN-rail mount

Specifications

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

Device Interface
- 1 x Gigabit port
- 1 x Gigabit SFP slot
- 4-pin removable terminal block
- LED indicators
- DIP Switch
- DIN-Rail mount
- Wall mount
- Grounding point

Data Transfer Rate
- Ethernet: 10 Mbps (half duplex), 20 Mbps (full duplex)
- Fast Ethernet: 100 Mbps (half duplex), 200 Mbps (full duplex)
- Gigabit: 2000 Mbps (full duplex)

Performance
- Data RAM Buffer: 1024 KB
- Jumbo Frame: 9 KB

Special Features
- Hardened components rated for extreme temperatures

- Dual redundant power inputs
- Auto-Negotiation
- Auto store and forward architecture
- Automatic address learning and address aging
- ESD 8 KV and Surge 6 KV protection

Power
- Input: 12 - 56 V DC or 18 - 36 V AC
- Compatible power supply: TI-M6024 (sold separately)
- Consumption: Max. 3 Watts

Terminal Block
- Redundant power inputs, 4 pin
- Wire range: 0.34 mm^2 to 2.5 mm^2
- Solid wire (AWG): 12-24/14-22
- Stranded wire (AWG): 12-24/14-22
- Torque: 5 lb. – In / 0.5 Nm / 0.56 Nm
- Wire strip length: 7-8 mm

DIP Switch
- 1: Set SFP speed to 100 Mbps or 1000 Mbps
- 2: Enable or disable auto-negotiation on SFP port
- 3: Set to switch or pass through mode
- 4: Turns LFP (Link Fault Pass Through) on or off

MTBF
- 510,304 hours

Housing
- IP30 metal case

- DIN-rail mount
- Wall mount
- Grounding point
- 8 KV ESD protection
- 6 KV surge protection

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

Operating Humidity
- Max. 95 % non-condensing

Dimensions
- 113 x 82 x 31 mm (4.4 x 3.2 x 1.2 in.)

Weight
- 152 g (5.4 oz.)

Certifications
- CE
- FCC
- Shock (IEC 60068-2-27)
- Freefall (IEC 60068-2-32)
- Vibration (IEC 60068-2-6)

Warranty
- Lifetime

Package Contents
- TI-F11SFP
- Quick Installation Guide
- Removable terminal block
- DIN-rail / wall mount kit