



## 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 °C (-40 to 167 °F) 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

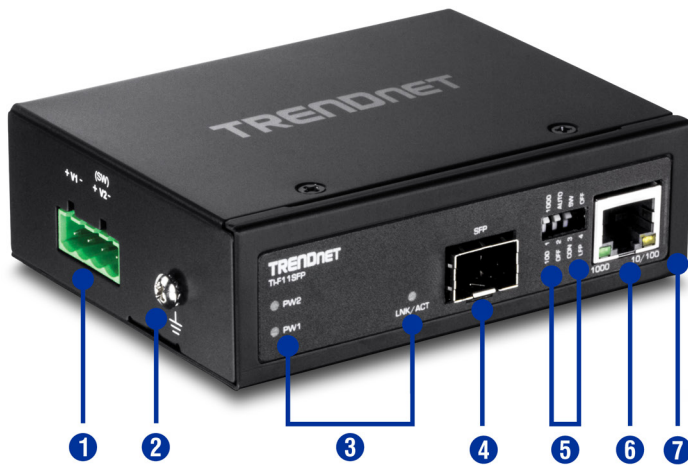
Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-32), and vibration (IEC 60068-2-6)



### 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<sup>2</sup> to 2.5 mm<sup>2</sup>
- 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

- 3 year limited

### Package Contents

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

