

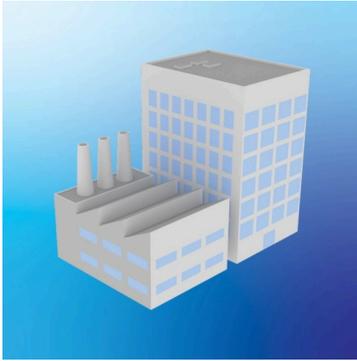


## Industrial 10G SFP+ Media Converter

TI-F711SFP (v1.xR)

- 1 x 10G SFP+ port
- 1 x 10G Ethernet port
- Hardened IP50-rated 10G Ethernet to 10G SFP+ converter
- SFP port accommodates Multi or Single Mode fiber modules
- Hardened IP50-rated metal switch
- 6kV RJ45 Ethernet surge protection
- Extreme operating temperature range of -40° – 75°C (-40° – 167°F)
- Dual 48V and 9 – 60V DC inputs provide redundant power with overload current protection
- Alarm relay triggered by power failure
- Includes DIN-Rail and wall mounts
- Powers supply sold separately (models: TI-M6024, 48VDC3000)
- NDAA / TAA compliant (U.S. and Canada only)

TRENDnet's Industrial 10G SFP+ Media Converter, model TI-F711SFP, is a reliable IP50-rated 10G SFP+ to 10G Ethernet media converter with hardened components rated for extreme industrial environments. Set 100Mbps to 10G Ethernet throughput speeds, toggle energy efficiency, and Link Fault Pass Through (LFPT) using the front panel DIP switches. This industrial media converter features 9 – 60V DC power input with overload current protection, and an alarm relay in case of power failure. (Power supply sold separately: TI-M6024 and 48VDC3000).



### Industrial Applications

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



### Fault Tolerance

Features redundant 48V and 9 – 60V DC power inputs from external power sources, and an output alarm relay to indicate an input power failure.



### Industrial Hardened Design

Rugged IP50-rated housing with a high degree of vibration and shock resistance, and an operating temperature range of -40° – 75° C (-40° – 167° F).

## FEATURES



#### 10G Port

One 10G Ethernet port for highspeed devices



#### 10G SFP+ Port

One 10G SFP+ port for long distance applications



#### DIP Switches

1: LFPT (Link Fault Pass Through) on/off (default ON)

2: EEE (Energy Efficient Ethernet) on/off (default OFF)



#### Link Fault Pass Through

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



#### Surge Protection

Provides up to 6kV RJ45 Ethernet surge protection



#### 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: 1kV; Surge (IEC 61000-4-5): Power: 2kV, Signal: 2kV



#### Dust Protected

This industrial media converter is IP50 rated for ingress dust protection



#### Extreme Temperature Range

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



#### Fault Tolerance

Features an output alarm relay to indicate an input power failure



#### Shock and Vibration Resistant

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



#### DIN-Rail / Wall Mounts

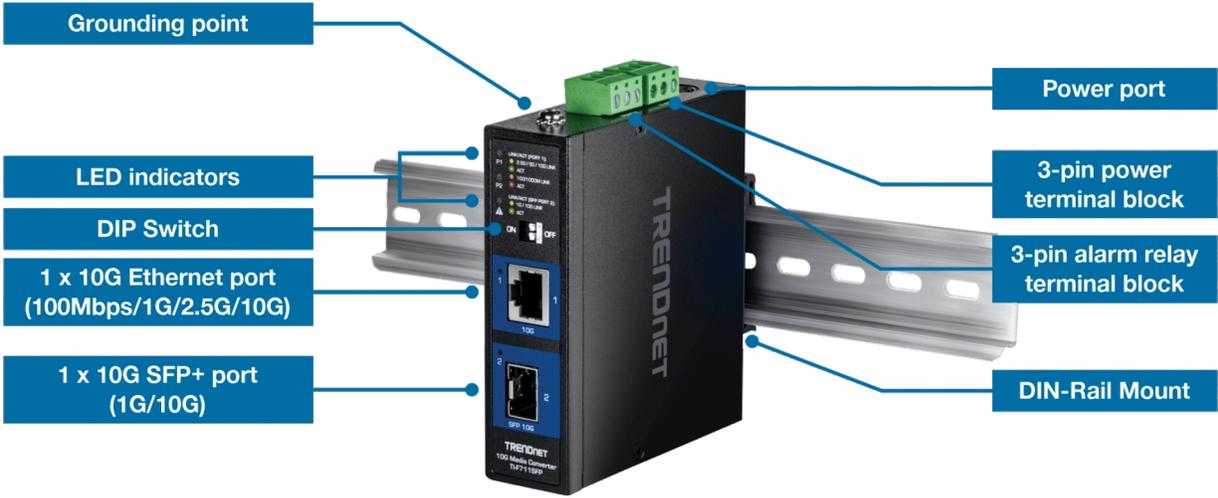
The rugged media converter includes DIN-Rail mount and wall mount hardware



#### Grounding Point

Features a grounding point to protect equipment from external electrical surges

## NETWORKING SOLUTION



## SPECIFICATIONS

### Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3bz
- IEEE 802.3an
- IEEE 802.3ae
- IEEE 802.3x
- IEEE 802.3az

### Device Interface

- 1 x 10G Ethernet port (100Mbps/1G/2.5G/10G)
- 1 x 10G SFP+ port (1G/10G)
- 3-pin power terminal block
- 3-pin alarm relay terminal block
- LED indicators
- DIP Switch

### Data Transfer Rate

- Ethernet: 10Mbps (half duplex), 20Mbps (full duplex)
- Fast Ethernet: 100Mbps (half duplex), 200Mbps (full duplex)
- Gigabit: 2Gbps (full duplex)
- 2.5G: 5Gbps (full duplex)
- 10G: 20Gbps (full duplex)
- Gigabit SFP: 2Gbps (full duplex)
- 10G SFP+: 20Gbps (full duplex)

### Performance

- Data RAM Buffer: 1MB
- Switching Fabric: 20Gbps
- MAC Address Table: 4K entries
- Jumbo Frame: 12KB
- Forwarding rate: 29.8Mpps (64-byte packet size)

### DIP Switch

- 1: LFPT (Link Fault Pass Through) on/off (default ON)
- 2: EEE (Energy Efficient Ethernet, IEEE 802.3az) on/off (default OFF)

### DC Power

- Input: 9 – 60V DC
- Compatible power supply: TI-M6024 (sold separately)
- Max. consumption: 6.54W

### AC Power

- Input: 100 – 240V AC, 50/60Hz, 2A
- Output: 48V DC, 3.34A 160W max.
- Compatible power adapter: 48VDC3000 (sold separately)
- Max. consumption: 7.2W

### Terminal Block

- 3-pin terminal blocks
- Alarm Relay: 1A @ 24V DC
- Wire range: 2.5mm<sup>2</sup>
- Solid wire (AWG): 12-25
- Stranded wire (AWG): 12-25
- Torque: 3.5 lb. – In / 0.5Nm
- Wire strip length: 7-8mm

### MTBF

- 1,979,198 hours @ 25° C

### Housing

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

### Operating Temperature

- -40° – 75° C (-40° – 167° F)

### Operating Humidity

- Max. 95% non-condensing

### Dimensions

- 120 x 98 x 30mm (4.7 x 3.9 x 1.2 in.)

### Weight

- 334g (11.8 oz.)

### Certifications

- CE
- FCC
- LVD
- Shock (IEC 60068-2-27)
- Frefall (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-F711SFP
- Removable terminal blocks
- 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.