

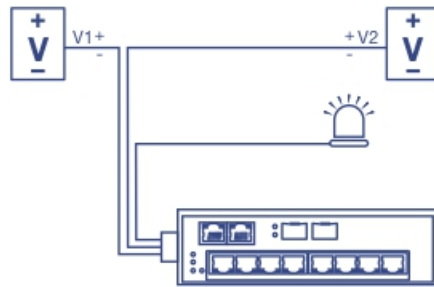
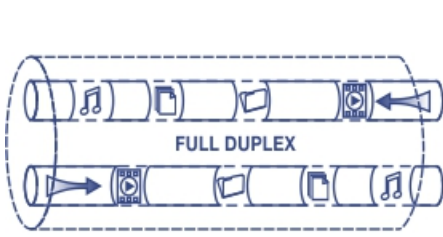


## 10-Port Hardened Industrial Gigabit DIN-Rail Switch

TI-G102 (v1.0R)

- 8 x Gigabit ports
- 2 x Gigabit RJ-45 / SFP shared ports
- 20Gbps switching capacity
- Hardened IP30 rated metal switch
- Includes DIN-rail and wall mounts
- Operating temperature range of -40° – 75°C (-40° – 167°F)
- Dual redundant power inputs with overload current protection
- Alarm output triggered by power failure
- Power supply sold separately (models: TI-M6024 / 48VDC3000)

TRENDnet's 10-Port Hardened Industrial Gigabit DIN-Rail Switch, model TI-G102, has eight dedicated gigabit ports, plus two gigabit RJ-45 / SFP shared ports. Users are able to connect eight devices to the switch, while still providing two gigabit ports for additional network connections. The switch is equipped with an IP30 rated metal enclosure, designed to withstand a high degree of vibration and shock, while operating within a wide temperature range of -40° – 75°C (-40° – 167°F) for industrial environments.



### Gigabit Speeds

Ten gigabit ports provide high-speed network connections to devices, and a 20 Gbps switching capacity allows data traffic to flow smoothly, reducing traffic bottlenecks.

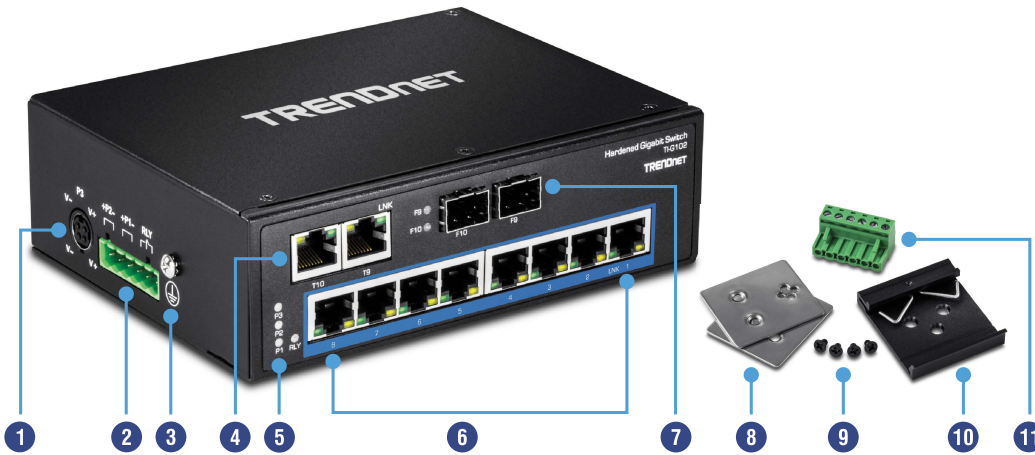
### Fault Tolerance

Features dual redundant power inputs with output alarm relay.

### Industrial Hardened Design

Equipped with an IP30 rated metal enclosure, designed to withstand a high degree of vibration and shock, while operating within a wide temperature range of -40° – 75°C (-40° – 167°F) for industrial environments.

## Networking Solution



- 1 AC power port
- 2 Terminal slot for DC power
- 3 Grounding point
- 4 Shared Gigabit RJ-45 ports
- 5 LED indicators
- 6 Gigabit ports
- 7 Shared Gigabit SFP slots
- 8 Wall mount kit
- 9 Screws
- 10 DIN-Rail mount
- 11 Terminal block



### Network Ports

8 Gigabit ports plus 2 Gigabit RJ-45 / SFP shared ports



### DIN-Rail / Wall Mounts

IP30 rated metal enclosure with included DIN-rail and wall mount hardware



### Switching Capacity

20 Gbps switching capacity



### Redundant Power

Dual redundant power inputs with overload current protection (power supply sold separately, models: TI-M6024 / 48VDC3000)



### Alarm Relay

Alarm relay triggered by power failure of primary and / or redundant power



### Jumbo Frame

Sends larger packets, or Jumbo Frames (up to 10 KB), for increased performance



### Extreme Temperatures

Industrial switch is rated for an operating temperature range of -40 – 75°C (-40 – 167°F)



### Shock and Vibration Resistant

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



### Grounding Point

Grounding point protects equipment from external electrical surges

## Specifications

### Standards

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

### Device Interface

- 8 x Gigabit ports
- 2 x Gigabit Ethernet ports
- 2 x Shared SFP slots
- 6-pin removable terminal block
- LED indicators
- 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: 2048 KB
- Switching Fabric: 20 Gbps
- MAC Address Table: 16 K entries
- Forwarding rate: 14.8 Mpps (64-byte packet size)

### 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 6KV protection

### Power

- Input: 12 - 56 V DC
- Compatible power supply: TI-M6024 (sold separately)
- Consumption: 5.76 W max.

### Terminal Block

- Redundant power inputs, alarm relay contact, 6 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

### Alarm Relay Contact

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

### MTBF

- 510,400 hours

### Housing

- IP30 metal case
- DIN-rail mount
- Wall mount
- Grounding point
- ESD 6 KV protection

### Operating Temperature

- - 40 to 75 °C (-40 to 167 °F)

### Operating Humidity

- Max. 95 % non-condensing

### Dimensions

- 155 x 120 x 48 mm (6.1 x 4.7 x 1.9 in.)

### Weight

- 415 g (1.1 lb)

### Certifications

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

### Warranty

- 3 year limited

### Package Contents

- TI-G102
- Quick Installation Guide
- Removable terminal block
- DIN-rail and wall mount kit

