8-Port Hardened Industrial Gigabit PoE+ DIN-Rail Switch
TI-PG80 (v1.0R)

- 8 x Gigabit PoE+ Ethernet ports
- Up to a 200 Watt full PoE+ power budget
- 16 Gbps switching capacity
- Hardened IP30 rated metal switch
- 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
- Alarm output triggered by power failure
- Powers supply sold separately (Model TI-S24048)
- Limited Lifetime Warranty

TRENDnet’s TI-PG80 is a reliable IP30 unmanaged PoE+ DIN-rail switch with hardened components rated for extreme industrial environments. It offers 8 Gigabit PoE+ ports (802.3at/802.3af) and a PoE power budget of up to 200 Watts. Dual redundant power inputs (power supply sold separately: TI-S24048) and a power failure alarm output trigger support zero downtime applications.
**Full PoE+ Power Budget**
Supplies up to 30 Watts of PoE/PoE+ power per port (802.3at/802.3af) with an up to 200 Watt PoE power budget.

**Network Ports**
8 x Gigabit PoE+ Ethernet ports.

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

**Switching Capacity**
16 Gbps switching capacity.

**Redundant Power**
Dual redundant power inputs with overload current protection (power supply sold separately: model TI-S24048).

**Alarm Output**
Alarm output triggered by power failure of primary and/or redundant power.

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

**Extreme Temperatures**
Hardened switch is rated for an operating temperature range of -40 to 75 ºC (-40 to 167 ºF).

**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.

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**Networking Solution**

![Diagram of networking solution]

1. Terminal block slot
2. Grounding point
3. LED indicators
4. Gigabit PoE+ ports
5. IP30 rated metal housing
6. Terminal block
7. Wall mounting kit
8. DIN-rail mount
## Specifications

### Standards
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3x
- IEEE 802.3af PoE
- IEEE 802.3at PoE+

### Device Interface
- 8 x Gigabit PoE+ ports
- 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: 1024 KB
- Switching Fabric: 16 Gbps
- MAC Address Table: 8 K entries
- Jumbo Frame: 9 KB
- Forwarding rate: 11.9 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 8 KV and Surge 6 KV protection

### Power
- Input: 48 - 56 V DC
- Compatible power supply: TI-S24048 (sold separately)
- Consumption: Max. 5.76 Watts (without PD)

#### PoE
- PoE budget: 200 Watts
- Pin 1,2 for power+ and pin 3,6 for power- (mode A)

#### Terminal Block
- Redundant power inputs, alarm relay contact, 6 pin
- Wire range: 0.34 mm² to 2.5 mm²
- 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

### Power Consumption
- Max. 5.76 Watts (without PoE)

### 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
- 143 x 104 x 36 mm (5.6 x 4.1 x 1.4 in.)

### Weight
- 554 g (1.22 lb)

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

### Warranty
- Limited Lifetime Warranty

### Package Contents
- TI-PG80
- Quick Installation Guide
- Removable terminal block
- DIN-rail / wall mount kit

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TRENDnet offers a limited lifetime warranty for all of its metal-enclosed network switches that have been purchased in the United States/Canada on or after 1/1/2015. Cooling fan and internal power supply carry a one-year warranty.