



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 °C (-40 to 167 °F) 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 °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 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

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.

