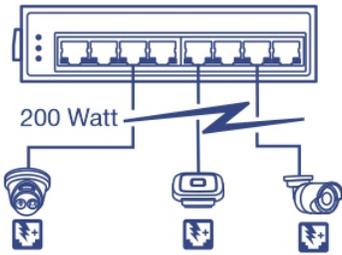# 8-Port Industrial Gigabit PoE+ DIN-Rail Switch (24 – 56V)
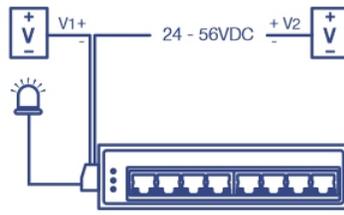
## TI-PG80B (v1.0R)

- 8 x Gigabit PoE+ ports
- PoE power budget 120W@24V – 200W@48V
- 16Gbps switching capacity
- Hardened IP30 rated metal switch
- Includes DIN-Rail and wall mounts
- Operating temperature range of -40° – 75° C (-40° – 167° F)
- Dual 24 – 56V DC power inputs for redundancy
- Power supply sold separately (models: TI-S24048, TI-S12024)

TRENDnet's 8-Port Industrial Gigabit PoE+ DIN-Rail Switch, model TI-PG80B, is an industrial variable voltage switch with eight gigabit PoE+ ports and a 200W PoE power budget. Users are able to connect eight PoE+ devices to this industrial variable voltage PoE+ switch for high-speed connectivity to the network. The industrial variable voltage PoE+ switch is equipped with a rugged IP30 rated metal enclosure, and 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. Dual 24 – 56V DC power inputs on the industrial variable voltage switch provide redundancy with power failure alarm relay.

# TRENDNET®



### PoE Power
The industrial variable voltage PoE switch features a 200W PoE+ power budget, and supplies up to eight Power over Ethernet devices with PoE+ power.
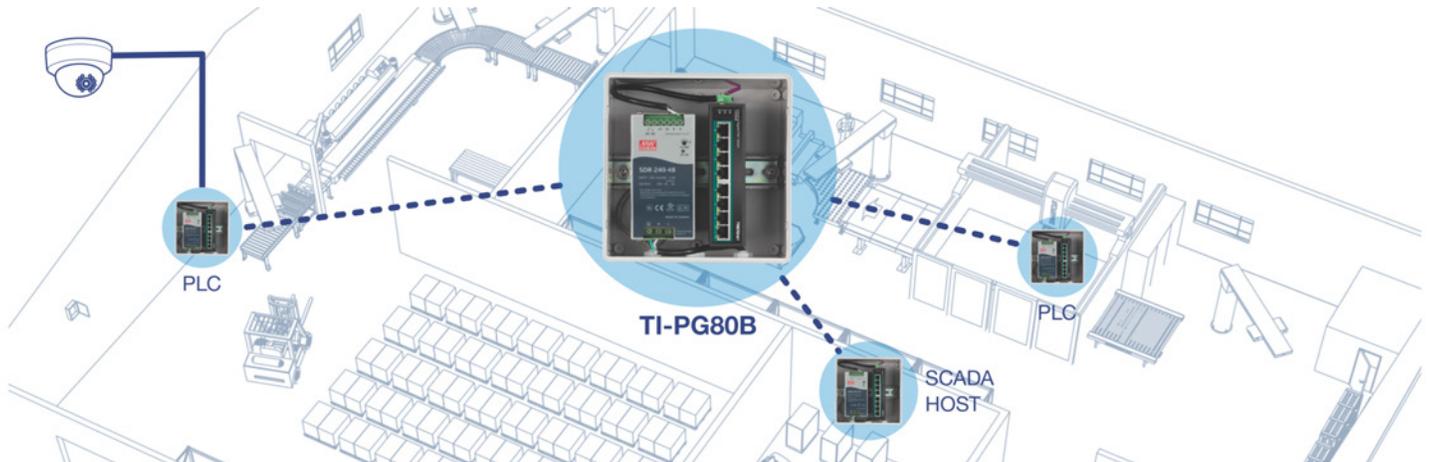
### Fault Tolerance
The industrial variable voltage PoE switch features dual 24V – 56V DC power inputs for redundancy with overload current protection.

### Industrial Design
Equipped with a rugged IP30 rated housing, resistant to a high degree of vibration and shock, and operates within a wide temperature range of -40° – 75° C (-40° – 167° F).

## NETWORKING SOLUTION

## FEATURES

**PoE+ Power Budget**
Supplies up to 30W of PoE power per port on the industrial variable voltage switch with a 200W PoE power budget

**Switching Capacity**
16Gbps switching capacity

**Redundant Power**
Dual 24V – 56V DC power inputs with overload current protection (compatible power supplies for this industrial variable voltage PoE+ switch sold separately, models: TI-S24048, TI-S12024)

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

**Wide Operating Temperature**
Industrial variable voltage switch 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)

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

**Jumbo Frame**
Sends larger packets, or Jumbo Frames (up to 9KB), for increased performance on the variable voltage switch

**Grounding Point**
Grounding point on the industrial variable voltage switch protects equipment from external electrical surges

## SPECIFICATIONS

**Standards**
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3x
- IEEE 802.3af
- IEEE 802.3at

**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: 10Mbps (half duplex), 20Mbps (full duplex)
- Fast Ethernet: 100Mbps (half duplex), 200Mbps (full duplex)
- Gigabit: 2000Mbps (full duplex)

**Performance**
- Data RAM Buffer: 1MB
- Switching Fabric: 16Gbps
- MAC Address Table: 4K entries
- Jumbo Frame: 9KB
- Forwarding rate: 11.9Mpps (64-byte packet size)

**Special Features**
- Hardened components rated for extreme temperatures
- Dual power inputs
- ESD 8KV support

**DC Power**
- Input: 24 – 56V DC
- Compatible power supply: TI-S24048 (sold separately)
- Max. consumption: 5.3W (no PoE)

**PoE**
- Max. power budget: 200W @56V DC
- Max. power budget: 120W @24V DC

**Terminal Block**
- Redundant power inputs, alarm relay contact, 6 pin
- Wire range: 0.34mm^2 to 2.5mm^2
- Solid wire (AWG): 12-24/14-22
- Stranded wire (AWG): 12-24/14-22
- Torque: 5 lb. – In / 0.5Nm / 0.56 Nm
- Wire strip length: 7-8mm

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

**MTBF**
- 529,765 hours

**Housing**
- IP30 metal case
- DIN-Rail mount
- Wall mount
- Grounding point

**Operating Temperature**
- -40° – 75° C (-40° – 167° F)

**Operating Humidity**
- Max. 95 % non-condensing

**Dimensions**
- 142 x 105 x 36mm (5.6 x 4.1 x 1.4 in.)

**Weight**
- 622g (1.4 lb.)

**Certifications**
- CE
- FCC
- Shock (IEC 60068-2-27)
- Freefall (IEC 60068-2-32)
- Vibration (IEC 60068-2-6)
- IEC 61000-4-2
- IEC 61000-4-4
- IEC 61000-4-5

**Warranty**
- Lifetime

**Package Contents**
- TI-PG80B
- Quick Installation Guide
- Removable terminal block
- DIN-Rail and wall mount kit