

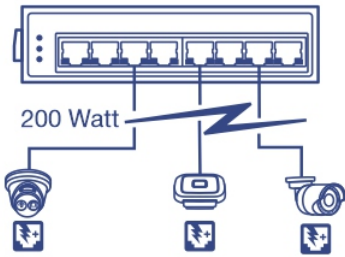


## 8-Port Industrial Gigabit PoE+ DIN-Rail Switch (24 – 56V)

TI-PG80B (v1.0R)

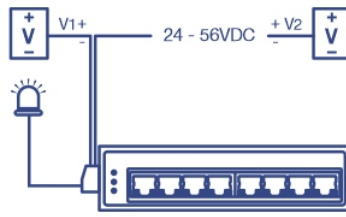
- 8 x Gigabit PoE+ ports
- PoE power budget 120W@24V – 200W@48V
- 16Gbps switching capacity
- Hardened IP30 rated metal switch
- Includes DIN-Rail and wall mounts
- Operating temperature range of -40° – 75° C (-40° – 167° F)
- Dual 24 – 56V DC power inputs for redundancy
- Power supply sold separately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



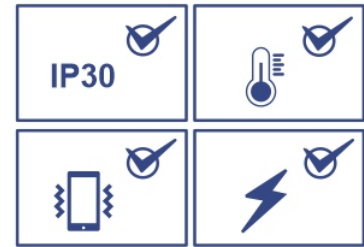
### PoE Power

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

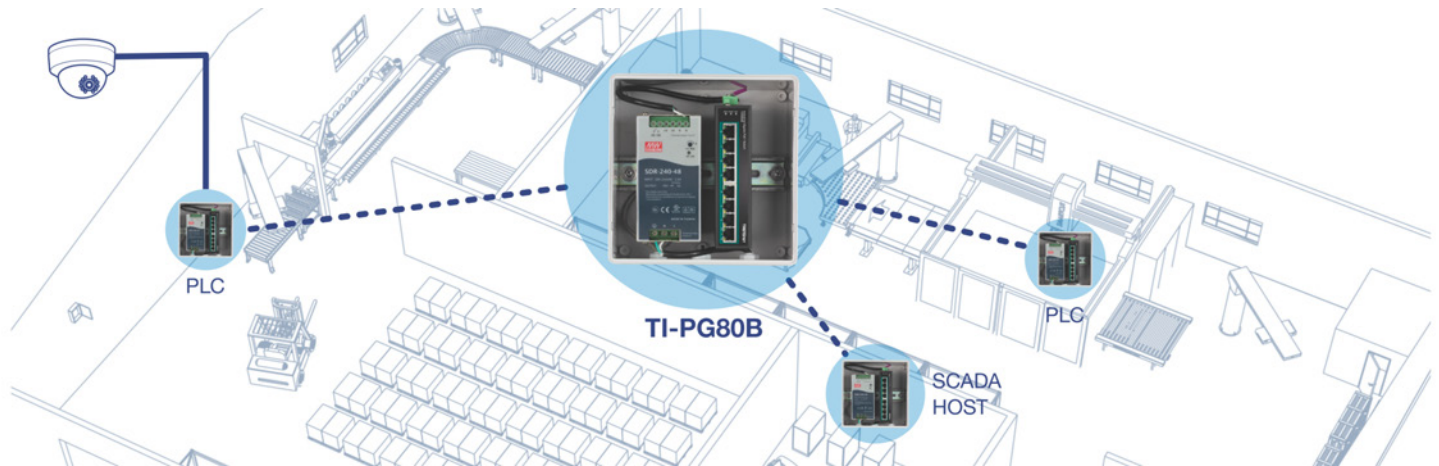
The industrial variable voltage PoE switch features dual 24V – 56V DC power inputs for redundancy with overload current protection.



### 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



### Network Ports

8 x Gigabit PoE+ ports



### DIN-Rail/Wall Mounts

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



### Switching Capacity

16Gbps switching capacity



### Wide Operating Temperature

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



### Jumbo Frame

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



### 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)



### 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 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: 128KB
- 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<sup>2</sup> to 2.5mm<sup>2</sup>
- 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