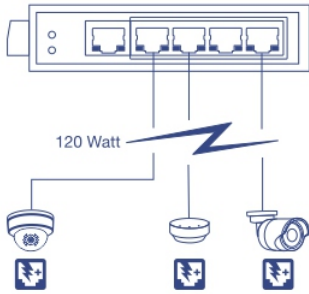# TRENDNET®

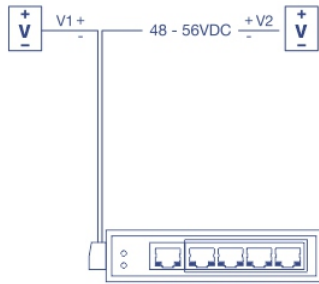# 5-Port Industrial Gigabit PoE+ DIN-Rail Switch

TI-PG50 (v1.0R)

- 4 x Gigabit PoE+ ports
- 1 x Gigabit port
- 120W PoE power budget
- 10Gbps switching capacity
- Hardened IP30 rated metal switch
- Includes DIN-Rail and wall mounts
- Operating temperature range of -40° – 75° C (-40° – 167° F)
- Redundant power inputs with overload current protection
- Power supply sold separately (models: TI-S12048, TI-S24048)

TRENDnet's 5-Port Industrial Gigabit PoE+ DIN-Rail Switch, model TI-PG50, has four gigabit PoE+ ports with a 120W PoE power budget. Users are able to connect four PoE+ devices to this industrial switch, while simultaneously providing a non-PoE gigabit port for connectivity to the network. The TI-PG50 industrial 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.

TRENDnet®

PoE Power
A 120W PoE+ power budget for up to four Power over Ethernet devices with PoE+ power.
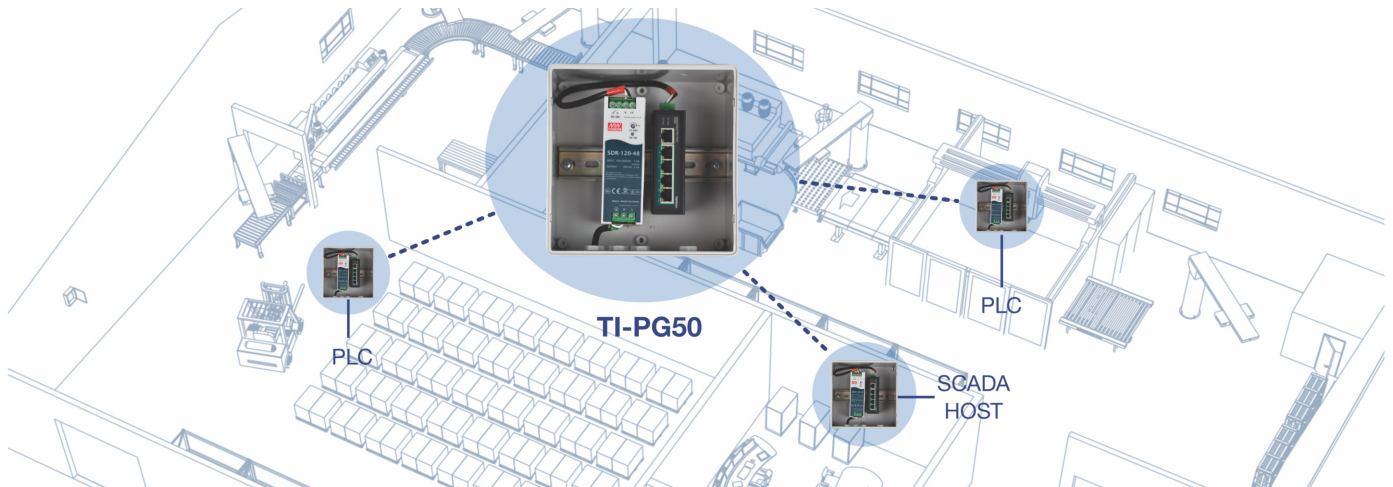
Fault Tolerance
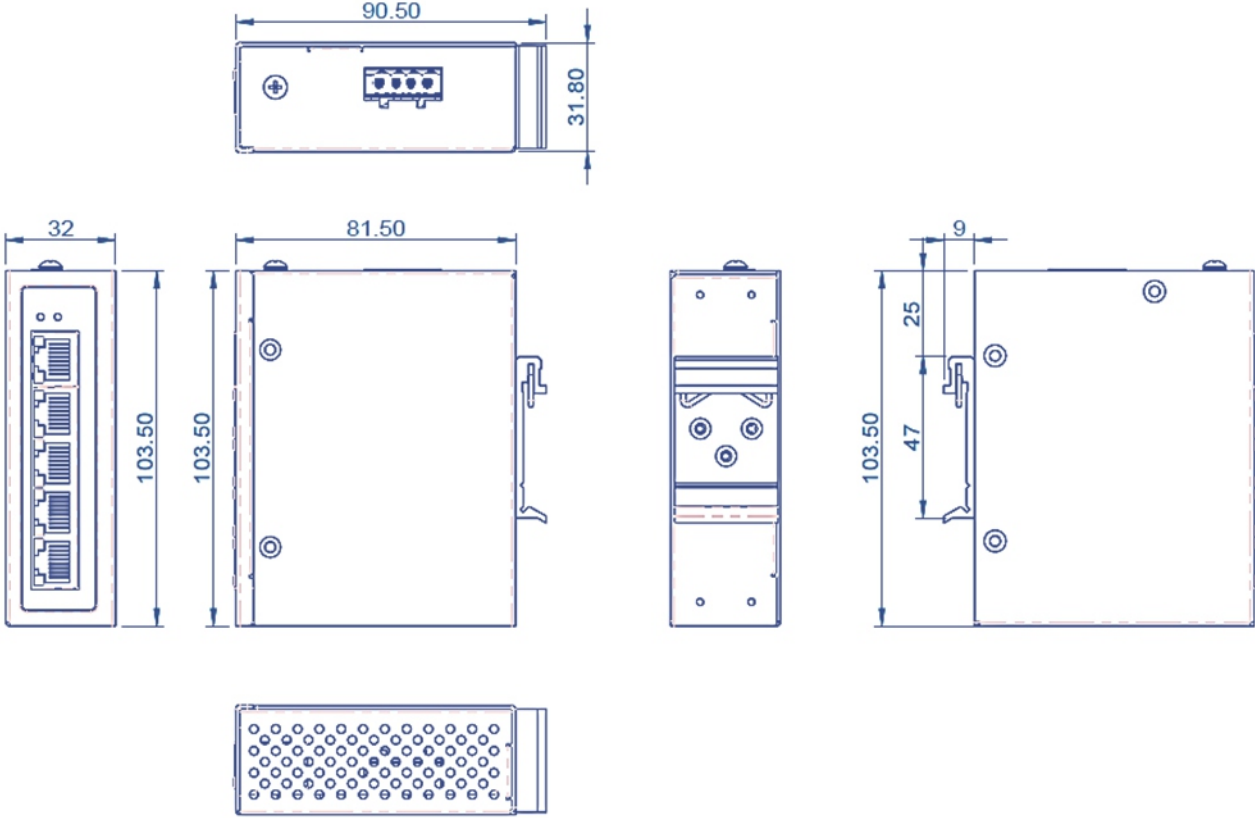The industrial switch features redundant power inputs with overload current protection.

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

NETWORKING SOLUTION

TI-PG50

PLC

PLC

SCADA HOST

LED indicators

1 x Gigabit port

4 x Gigabit PoE+ ports

Grounding point

4-pin removable terminal block

Wall mount

DIN-Rail mount

DIMENSIONS (mm)

90.50

31.80

32

81.50

103.50

103.50

9

25

103.50

47

FEATURES

PoE+ Power Budget
Supplies up to 30W of PoE/PoE+ power per port on the industrial PoE switch with a 120W PoE power budget

Network Ports
4 x Gigabit PoE+ ports and 1 x Gigabit port

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

Switching Capacity
10Gbps switching capacity

Redundant Power
Redundant power inputs with overload current protection (compatible power supply sold separately models: TI-S12048 / TI-S24048)

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

Extreme Temperatures
Industrial 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)

Grounding Point
Grounding point on the industrial 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
- 4 x Gigabit PoE+ ports
- 1 x Gigabit port
- 4-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: 10Gbps
- MAC Address Table: 2K entries
- Jumbo Frame: 9KB
- Forwarding rate: 7.44Mpps (64-byte packet size)

Special Features
- Hardened components rated for extreme temperatures
- Redundant power inputs
- Surge and ESD protection
- Low-profile design

Power
- Input: 48 – 56V DC
- Compatible power supply: TI-S12048, TI-S24048 (sold separately)
- Max. consumption: 2.24W (no PoE load)

PoE
- PoE budget: 120W@56V DC
- 802.3at: Up to 30W per port
- PoE Mode A: Pins 1, 2, 3, and 6 for power

Terminal Block
- Redundant power inputs, 4-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 / 0.56Nm
- Wire strip length: 7-8mm

MTBF
- 538.451 hours

Enclosure
- IP30 rated metal enclosure
- Fanless passive cooling
- DIN-Rail mount
- Wall mount
- Grounding point
- ESD Protection: Contact: 6kV / Air: 8kV
- Surge Protection: 2kV
- Overload current protection
- Reverse polarity protection

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

Operating Humidity
- Max. 95 % non-condensing

Dimensions
- 104 x 82 x 32mm (4.0 x 3.2 x 1.2 in.)

Weight
- 190g (6.7 oz.)

Certifications
- CE
- FCC
- UL
- 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

• 3 year

Package Contents

• TI-PG50
• Quick Installation Guide
• Removable terminal block
• DIN-Rail and wall mount kit

All references to speed are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

Updated: 12/12/2019