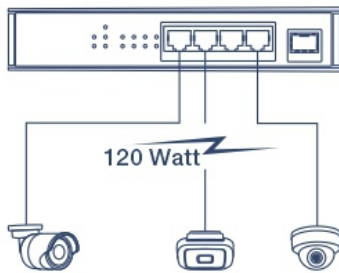


## 5-port Industrial Gigabit PoE+ DIN-Rail Switch -20° – 65°C (-4° – 149°F)

TI-PGM541 (v1.0R)

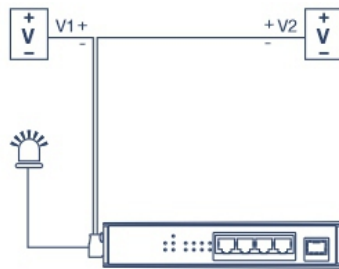
- 4 x Gigabit PoE+ ports
- 1 x Gigabit SFP slot
- 120W PoE power budget
- 10Gbps switching capacity
- Hardened IP30 rated metal switch
- Includes DIN-Rail and wall mounts
- Operating temperature range of -20° – 65°C (-4° – 149°F)
- Redundant power inputs with overload current protection
- Alarm output triggered by power failure
- Power supply sold separately (models: TI-S12048, 48VDC3000)

TRENDnet's 5-Port Industrial Gigabit PoE+ DIN-Rail Switch -20° – 65°C (-4° – 149°F), model TI-PGM541, has four gigabit PoE+ ports with a 120W PoE power budget, plus one gigabit SFP slot for long distance fiber applications. Users are able to connect four PoE+ devices to the switch, while still providing one gigabit SFP slot for an additional network connection. This switch is equipped with an IP30 rated metal enclosure, designed to operate within a wide temperature range of -20° – 65°C (-4° – 149°F) for harsh, industrial environments.



### PoE Power

A 120W PoE+ power budget supplies up to four Power over Ethernet devices with PoE+ power.



### Fault Tolerance

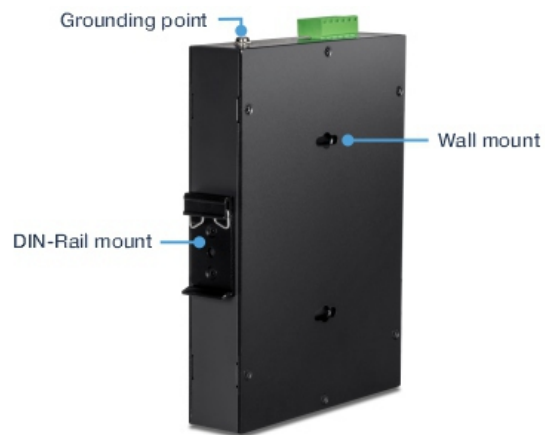
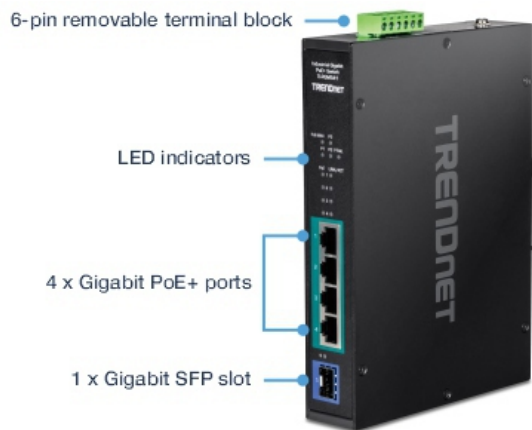
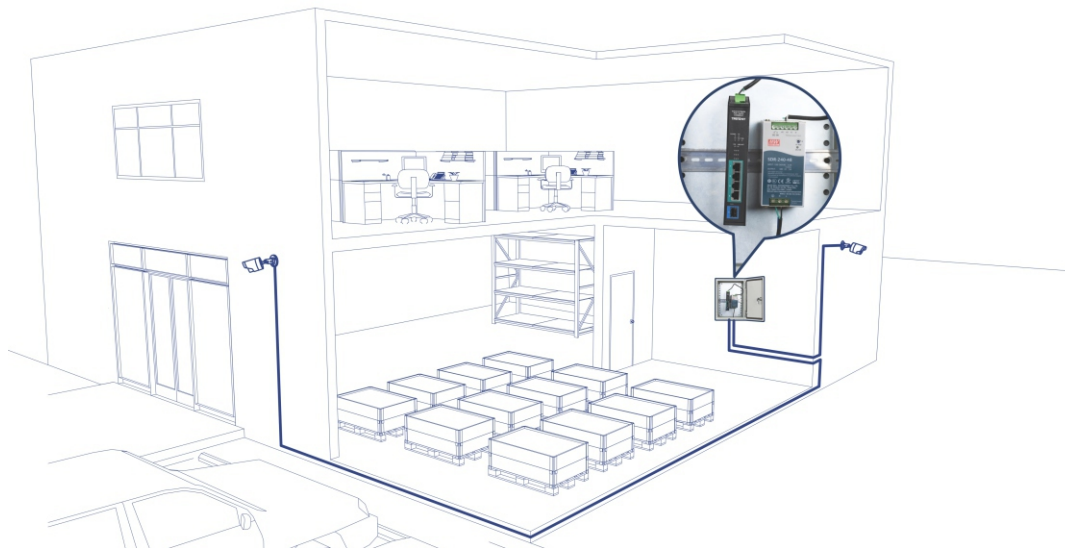
Features redundant power inputs with overload current protection and output alarm relay.



### Industrial Hardened Design

Rugged IP30 rated housing is designed to operate within a wide temperature range of -20° – 65°C (-4° – 149°F).

## NETWORKING SOLUTION



## FEATURES



### Full PoE+ Power Budget

Supplies up to 30W of PoE/PoE+ power per port with a 120W PoE power budget



### Network Ports

4 x Gigabit PoE+ ports and 1 x Gigabit SFP slot



### 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 (power supply sold separately, models: TI-S12048, 48VDC3000)



### Alarm Relay

Alarm relay triggered by power failure of primary and/or redundant power



### Jumbo Frame

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



### Wide Operating Temperature

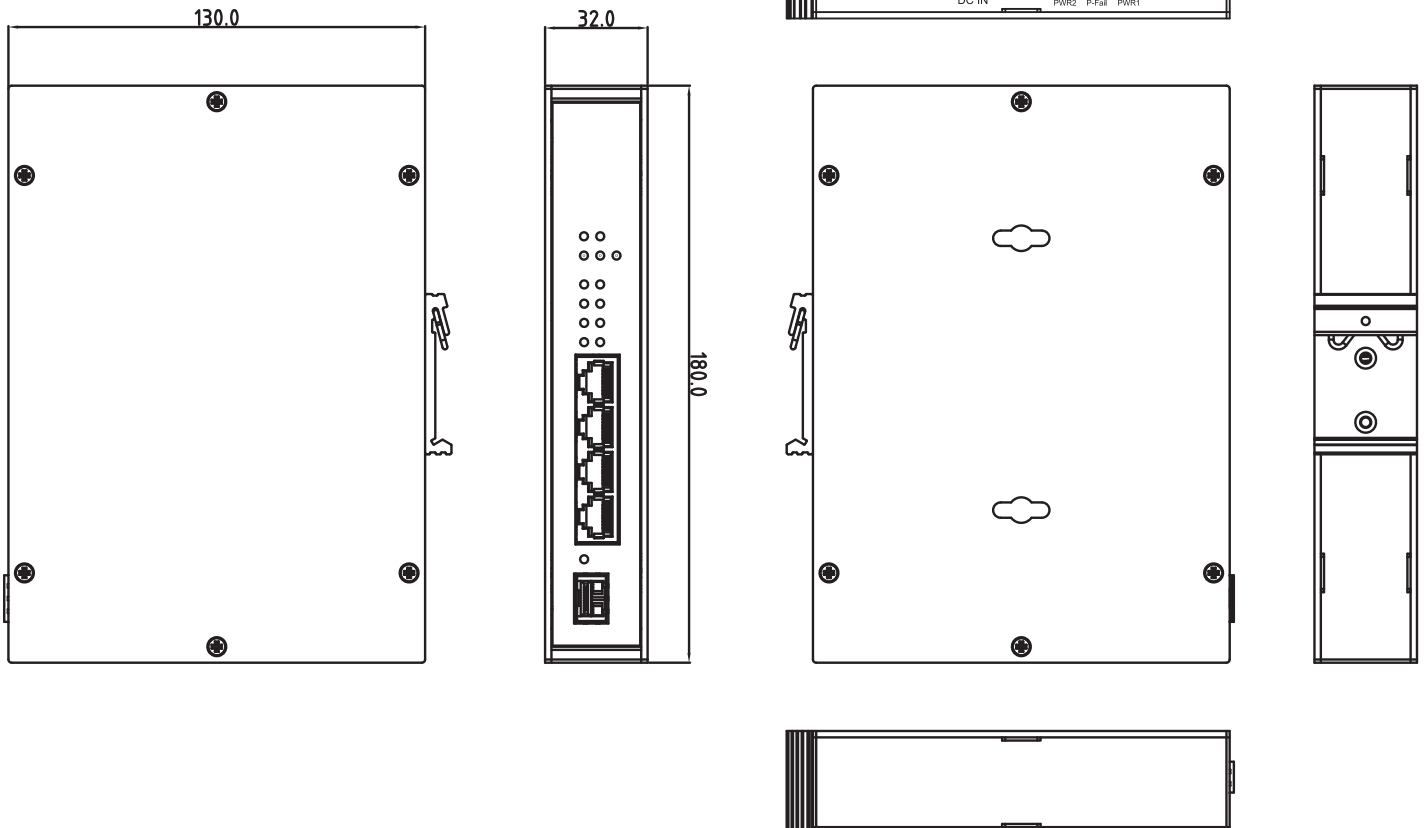
Rated for an operating temperature range of -20° – 65°C (-4° – 149°F)



### Grounding Point

Grounding point protects equipment from external electrical surges

## HOUSING DIMENSIONS (mm)



## 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 SFP slot
- 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)
- SFP: 2000Mbps (full duplex)

### Performance

- Data RAM Buffer: 8KB
- 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
- Dual redundant power inputs
- Auto-Negotiation
- Auto store and forward architecture
- Automatic address learning and address aging

### DC Power

- Input: 50 – 55V DC
- Compatible power supply: TI-S24048 (sold separately)
- Max. consumption: 5W (no PoE)

### AC Power

- Input: 100 – 240V AC, 50/60Hz, 2A
- Compatible power adapter: 48VDC3000 (sold separately)
- Output: 48V DC, 3.34A 160W max.

### PoE

- PoE budget: 120W @56V 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): 28-14
- Stranded wire (AWG): 28-14
- 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
- Short circuit mode when two power sources are connected
- Open circuit mode when only one power source is connected

### MTBF

- 1,000,000 hours @ 25°C

### Housing

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

### Operating Temperature

- -20° – 65° C (-4° – 149° F)

### Operating Humidity

- Max. 95 % non-condensing

### Dimensions

- 180 x 130 x 28mm (7 x 5.1 x 1.1 in.)

### Weight

- 668g (1.47 lb.)

### Certifications

- CE
- FCC
- LVD
- IEC 61000-4-2
- IEC 61000-4-4
- IEC 61000-4-5

### Warranty

- Lifetime warranty

### Package Contents

- TI-PGM541
- Quick Installation Guide
- Removable terminal block

TRENDnet offers a 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.

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.