



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

### TI-PG541 (v1.0R)

- 4 x Gigabit PoE+ (802.3at) ports, 1 x Gigabit port, and 1 x Gigabit SFP slot
- 120 W full PoE+ power budget
- 12 Gbps switching capacity
- · Hardened IP30 rated metal switch with integrated DIN-Rail mount
- -40 to 70 °C (-40 to 158 °F) operating temperature range
- Dual redundant power inputs with overload current protection
- Alarm output triggered by power failure
- · Power adapter sold separately
- Limited Lifetime Warranty

TRENDnet's TI-PG541 is a reliable IP30 unmanaged PoE+ DIN-rail switch with hardened components rated for extreme industrial environments. It offers four Gigabit PoE+ ports (Ports 1-4, 802.3at), one Gigabit port, one SFP slot, and a full PoE power budget of 120 Watts. Dual redundant power inputs (power adapter sold separately) with overload current protection support zero downtime requirements. An alarm output can be triggered by a primary and/or redundant power failure.

# TRENDIET



#### Full PoE+ Power Budget

Supplies up to 30 Watts of PoE/PoE+ power per port (ports 1-4 802.3at/802.3af) with a 120 Watt PoE power budget



#### **Network Ports**

5 x Gigabit Ethernet ports (port 1-4 PoE/PoE+) and 1 x SFP slot



#### **Integrated DIN-Rail Mount**

IP30 rated metal enclosure with integrated DIN-rail mounting hardware



#### **Switching Capacity**

12 Gbps switching capacity



#### **Redundant Power**

Dual redundant power inputs with overload current protection (power adapter sold separately: model 48VDC3000)



#### **Alarm Output**

Alarm output triggered by power failure of primary and/or redundant power (defined by DIP switch)



#### Jumbo Frame

Sends larger packets, or Jumbo Frames (up to 10 KB), for increased performance



#### **Extreme Temperatures**

Hardened switch is rated for an operating temperature range of -40 to 70  $^{\circ}\text{C}$  (-40 to 158  $^{\circ}\text{F})$ 



#### **Electro Magnetic Compliance**

Complies with IEC61000-6-2 EMC generic standard immunity for industrial environments



#### **Shock and Vibration Resistant**

Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-32), and vibration (IEC 60068-2-6)



#### **LED Indicators**

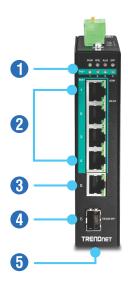
LED indicators convey power, redundant power, alarm, SFP, and network port status

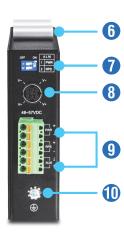


#### **Grounding Point**

Grounding point protects equipment from external electrical surges

## **Networking Solution**





- LED indicators
- 2 Gigabit PoE+ ports
- 3 Gigabit port
- 4 SFP slot
- 6 Reset button
- 6 Integrated DIN-Rail mount
- 7 DIP switches
- 8 DC power connector
- 9 6-pin terminal block
- Grounding point



## **Specifications**

#### **Standards**

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3z
- IEEE 802.3at
- IEEE 802.3af
- IEEE 802.3x

#### **Device Interface**

- 4 x Gigabit PoE+ ports
- 1 x Gigabit port
- 1 x Gigabit SFP slot
- · 6-pin terminal block (removable)
- DIP switch
- DC power connector
- LED indicators
- · Integrated DIN-Rail mount

#### **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)
- SX/LX: 2000 Mbps (full duplex)

#### Performance

Data RAM Buffer: 512 KB
Switching Fabric: 12 Gbps
MAC Address Table: 8 K entries

• Jumbo Frame: 10 KB

• Forwarding rate: 8.9 Mpps (64-byte packet size)

#### **Special Features**

- Full PoE+ power to each PoE+ port
- Hardened components rated for extreme temperatures
- · Dual redundant power inputs
- · Alarm output triggered by power failure
- Auto-Negotiation
- · Auto store and forward architecture
- · Automatic address learning and address aging
- ESD 8 KV and Surge 6 KV protection

#### Power Adapter (48VDC3000, Sold Separately)

- Input: 100 240 V AC, 50/60 Hz, 2 A
- Output: 48 V DC, 3.34 A 160 watts max.

#### Terminal Block

- Input: PWR (Primary): 48 57 V DC
- RPS (Redundant): 48 57 V DC

#### Power Consumption

- Min.: 10 Watts (standby)
- Max.: 130 Watts
- PoE budget: 120 Watts (Max.)

#### PoE

- Up to 15.4 watts/port for PoE
- Up to 30 watts/port for PoE+
- PoE: pin 1, 2 for power + and pin 3, 6 for power -(mode A)

#### Housing

- IP30 metal case
- · Integrated DIN-rail mount
- · Grounding point
- 8 KV ESD protection
- 6 KV Surge protection

#### **Operating Temperature**

• - 40 - 70 °C (- 40 - 158 °F)

#### **Operating Humidity**

• Max. 95 % non-condensing

#### Dimensions

• 135 x 100 x 30 mm (5.3 x 3.9 x 1.2 in.)

#### Weight

• 500 g (1.2 lbs.)

#### 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-PG541
- · Quick Installation Guide
- DIN-Rail 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.

