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 ºC (-40 to 158 ºF) operating temperature range
- Dual redundant power inputs with overload current protection
- Alarm output triggered by power failure
- Power adapter sold separately
- Limited Lifetime Warranty

TRENDSnet’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.
**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 °C (-40 to 158 °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

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**Networking Solution**

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

Standards
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3z
- 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 Mbps (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.