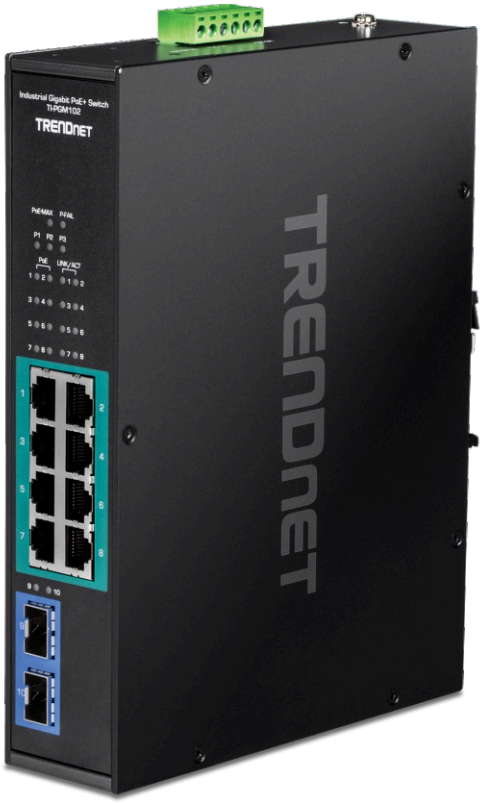
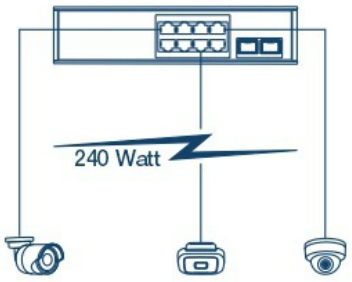


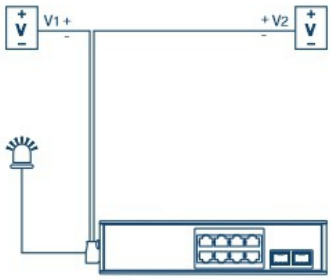
10-Port Industrial Gigabit PoE+ DIN-Rail Switch -20° – 65°C (-4° – 149°F)

TI-PGM102 (v1.0R)

- 8 x Gigabit PoE+ ports
- 2 x Gigabit SFP slots
- 240W PoE power budget
- 20Gbps switching capacity
- Hardened IP30 rated metal switch
- Includes DIN-Rail and wall mounts
- Wide 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-S24048)
- Lifetime Warranty

TRENDnet's 10-Port Industrial Gigabit PoE+ DIN-Rail Switch -20° – 65°C (-4° – 149°F), model TI-PGM102, has eight gigabit PoE+ ports with a 240W PoE power budget, plus two gigabit SFP slots for long distance fiber applications. Users are able to connect eight PoE+ devices to the switch, while still providing two gigabit SFP slots for additional network connections. 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.



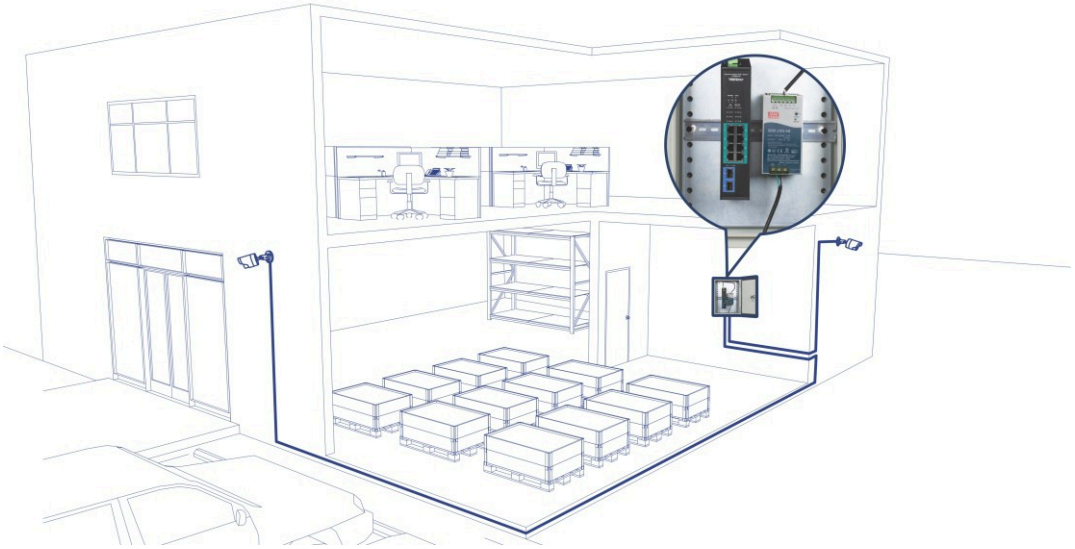


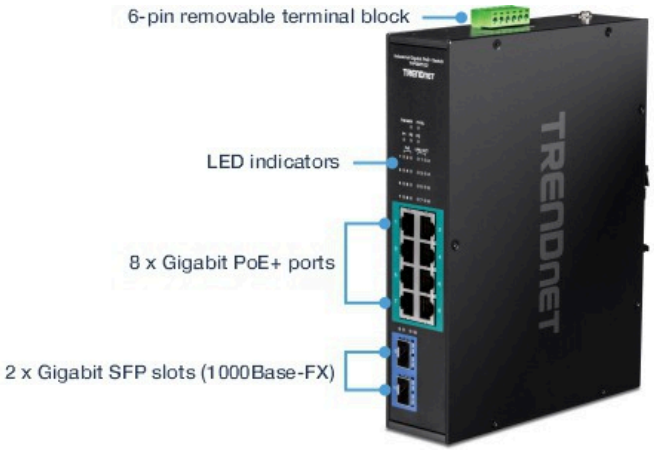
PoE Power
A 240W PoE+ power budget supplies up to eight Power over Ethernet devices with PoE+ power.

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 240W PoE power budget

Network Ports
8 x Gigabit PoE+ ports and 2 x Gigabit slots

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

Switching Capacity
20Gbps switching capacity

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

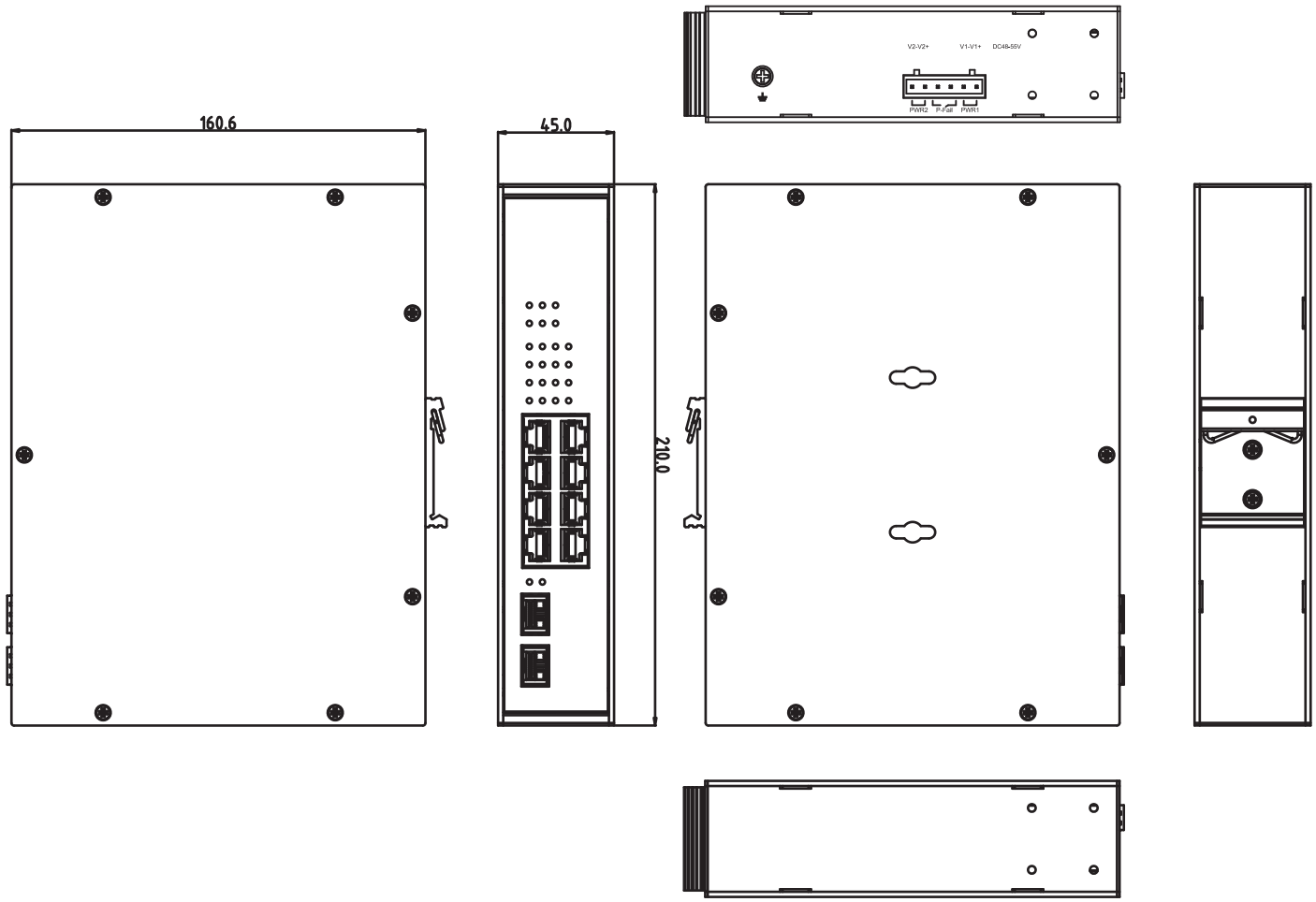
Alarm Relay
Alarm relay triggered by power failure of primary and/or redundant power

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 DIMENSION (mm)



SPECIFICATIONS

Standards

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

Device Interface

- 8 x Gigabit PoE+ ports
- 2 x Gigabit SFP slots (1000Base-FX)
- 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: 184KB
- Switching Fabric: 20Gbps
- MAC Address Table: 4K entries
- Jumbo Frame: 9KB
- Forwarding rate: 14.88Mpps (64-byte packet size)

Special Features

- Hardened components rated for extreme temperatures
- Redundant power inputs
- Auto-Negotiation
- Auto store and forward architecture
- Automatic address learning and address aging

DC Power

- Input: 48 – 55 V DC
- Compatible power supply: TI-S24048 (sold separately)
- Max. consumption: 6.38W (no PoE)

PoE

- PoE budget: 240W@56V DC

Terminal Block

- Redundant power inputs, alarm relay contact, 6-pin
- Wire range: 0.34mm^2 to 2.5mm^2
- Solid wire (AWG): 12-28
- Stranded wire (AWG): 12-28
- 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

- 210 x 160 x 45mm (8.3 x 6.3 x 2 in.)

Weight

- 1.1kg (2.45 lb.)

Certifications

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

Warranty

- Lifetime Warranty

Package Contents

- TI-PGM102
- Quick Installation Guide
- Removable terminal block

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.

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.

20675 Manhattan Place • Torrance • CA 90501 • USA • T: 1-888-326-6061 • F: 1-310-961-5511 • sales@trendnet.com • www.TRENDnet.com

TRENDnet is a registered trademark. Other Brands and product names are trademarks of their respective holders. Information provided in this document pertain to TRENDnet products and is subject to change at any time, without notice. For the most recent product information please visit http://www.trendnet.com. Copyright © TRENDnet. All Rights Reserved.

Updated: 9/27/2022