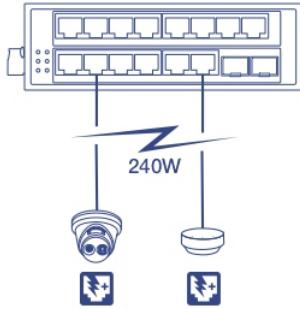# 16-Port Industrial Gigabit PoE+ DIN-Rail Switch

TI-PG162 (v1.0R)

- 14 x Gigabit PoE+ ports
- 2 x Gigabit SFP slots
- 240W PoE power budget
- 32Gbps switching capacity
- Hardened IP30 rated metal switch
- Includes DIN-Rail mount and wall mount brackets
- Wide operating temperature range of -40° – 75°C (-40° – 167°F)
- Multiple inputs provide redundant power with overload current protection
- Alarm output triggered by power failure
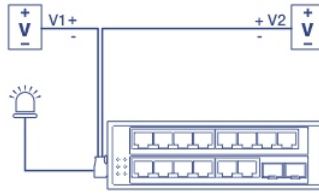- Power supply sold separately (model: TI-S48048)

TRENDnet's Industrial Gigabit PoE+ DIN-Rail Switches provide network connectivity in rugged environments, while saving you on installation costs and setup time using Power over Ethernet technology. The Industrial Gigabit PoE+ DIN-Rail Switches each feature a rugged IP30 rated metal enclosure, designed to withstand a high degree of vibration and shock, while operating in both high and low temperatures for industrial environments within -40° – 75° C (-40° – 167° F). Our hardened industrial PoE+ switch models feature copper Gigabit PoE+ ports for high-speed device connections, and SFP slots that support 1000Base-FX modules for long distance fiber networking applications.

Installers and integrators can save on equipment costs and reduce installation time with TRENDnet's Industrial Gigabit PoE+ DIN-Rail Switches by delivering up to 30W per port of PoE power and data over existing Ethernet cables. With PoE technology inside these industrial PoE+ switches, users will only need one set of cables to deliver both data and power. Network PoE devices to this hardened industrial PoE+ switch, such as high-power wireless access points, IP cameras, VoIP phone systems, IPTV decoders, access controls, and more.
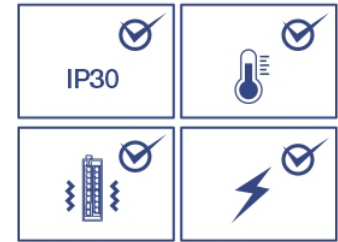
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PoE+ Power

This hardened industrial PoE+ switch features a 240W PoE+ power budget that supplies Power over Ethernet devices with 30W of PoE+ power per port.
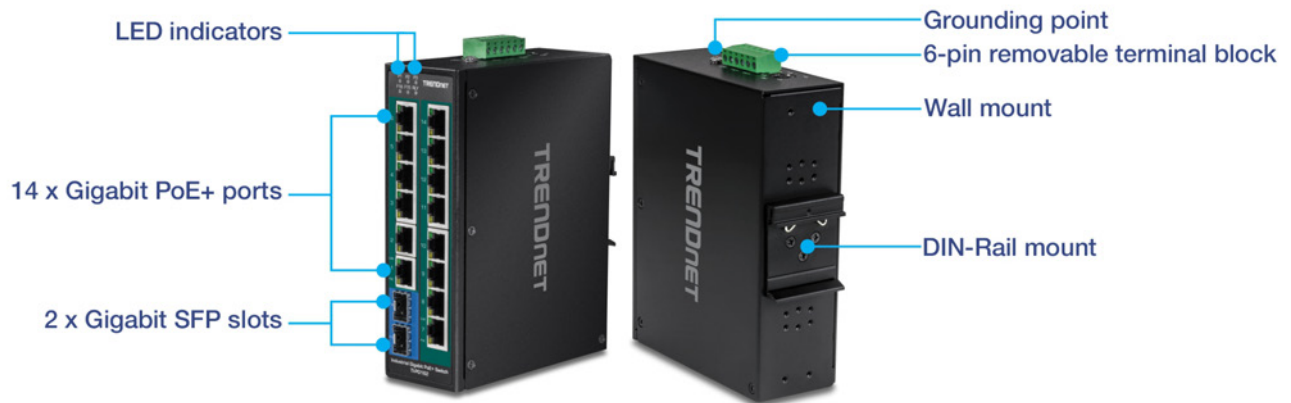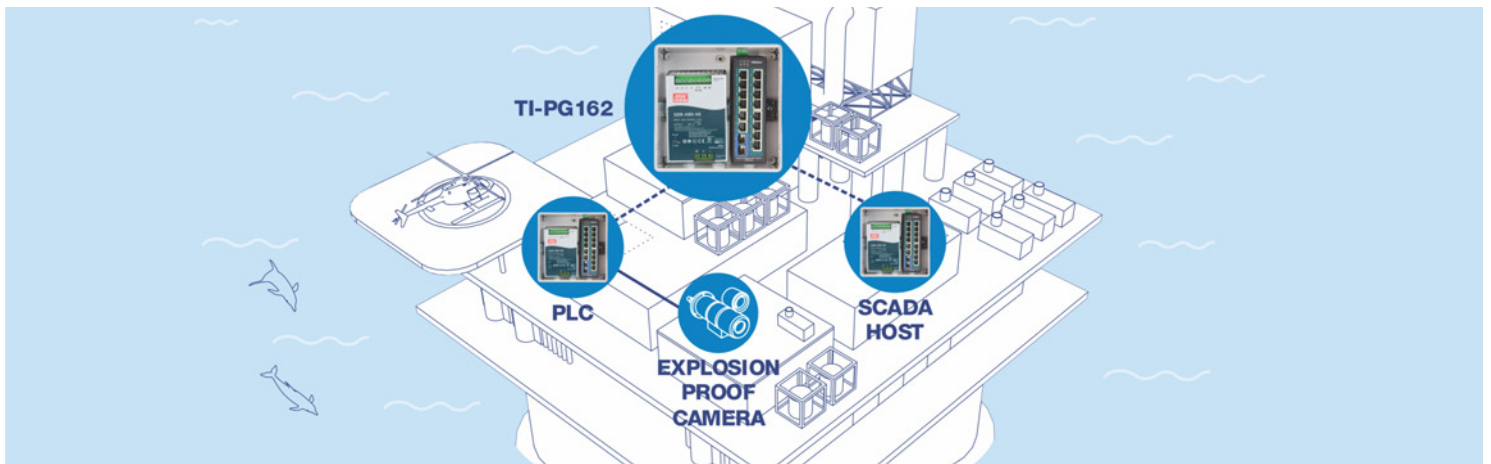
Redundant Power

Multiple power inputs provide redundant power with overload current protection on this industrial PoE+ switch, minimizing network downtime (power supplies sold separately).

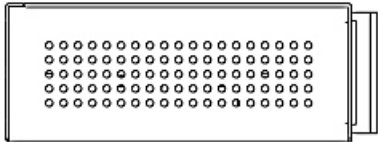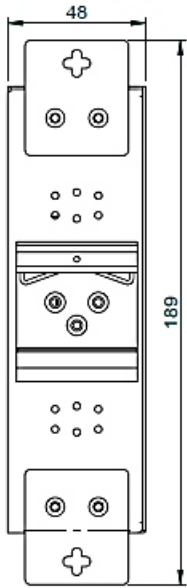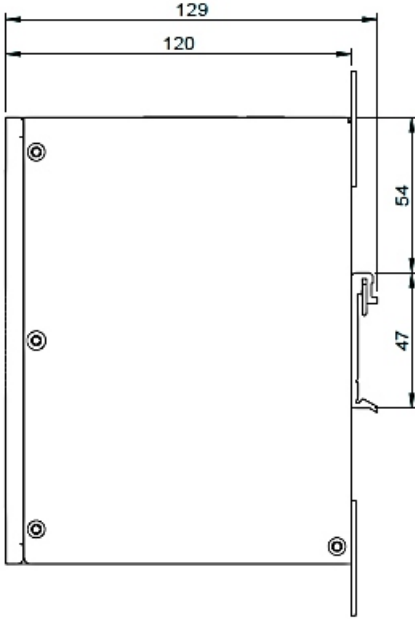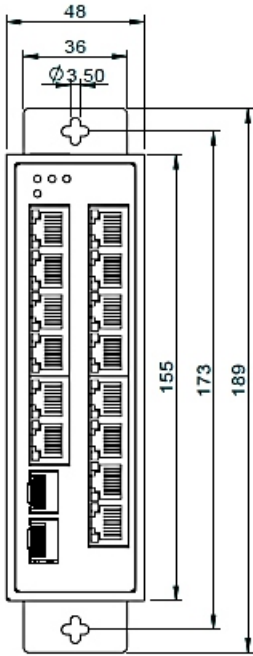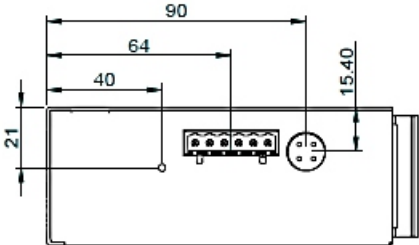## Industrial Hardened Design

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

NETWORKING SOLUTION

HOUSING DIMENSION (mm)

TRENDnet®

FEATURES

PoE+ Power
Industrial PoE+ switches supply Power over Ethernet devices with up to 30W of PoE+ power per port

Redundant Power
Multiple power inputs on the industrial PoE+ switches provide redundant power with overload current protection (power supply sold separately, model: TI-S48048)

Wide Temperature Range
A wide operating temperature range of -40° – 75° C (-40° – 167° F) allows for installations in industrial environments with extreme hot or cold conditions

Grounding Point
This industrial PoE+ switch features a grounding point for protection against external electrical surges

Gigabit Ports
Copper Gigabit PoE+ ports for high-speed device connections with the industrial unmanaged PoE+ switch, and SFP slots that support 1000Base-FX modules for long distance fiber networking applications

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

Shock and Vibration Resistant
These hardened industrial PoE+ switches are rated for shock (EN 60068-2-27), freefall (EN 60068-2-32), and vibration (EN 60068-2-6)

DIN-Rail / Wall Mounts
Rugged industrial PoE+ switch with IP30 rated metal enclosure, including DIN-Rail mount and wall mount hardware

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

Electro Magnetic Compliance
Complies with industrial EMS certifications (IEC 61000-4-2) ESD: Contact: 6kV | Air: 8kV, (IEC 61000-4-4) EFT: Power: 2kV | Signal: 2kV, (61000-4-5) Surge: Power: 2kV | Signal: 2kV

SPECIFICATIONS

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

Device Interface
- 14 x Gigabit PoE+ ports
- 2 x Gigabit SFP slots
- 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: 512KB
- Switching Fabric: 32Gbps
- MAC Address Table: 8K entries
- Jumbo Frame: 9KB
- Forwarding rate: 23.8Mpps (64-byte packet size)

Special Features
- Hardened components rated for extreme temperatures
- Multiple redundant power inputs
- ESD contact 6kV, air 8kV, and surge 2kV support
- Low-profile design

DC Power
- Input: 48 – 56V DC
- Recommended power supply: TI-S48048 (sold separately)
- Max. consumption: 13W (no PoE)

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

PoE
- PoE budget: 240W

Terminal Block
- Multiple power inputs, alarm relay contact, 6 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

Alarm Relay Contact
- Relay outputs with current carrying capacity of 1A, 24V DC
- Open circuit mode when two power sources are connected
- Short circuit mode when only one power source is connected

MTBF
- 504,738hrs @ 50° C
- 222,000hrs @ 75° C

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Housing

- IP30 metal case
- DIN-rail mount
- Wall mount
- Grounding point
- 6kV contact protection
- 8kV air protection
- 2kV surge protection

Operating Temperature

- - 40° – 75° C (-40° – 167° F)

Operating Humidity

- Max. 95% non-condensing

Dimensions (L x W x H)

- 155 x 120 x 48mm (6 x 4.7 x 1.9 in.)

Weight

- 562g (19.8 oz.)

Certifications

- CE
- FCC
- MET
- Shock (IEC 60068-2-27)
- Freefall (IEC 60068-2-32)
- Vibration (IEC 60068-2-6)

Warranty

- 3 year

Package Contents

- TI-PG162
- 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.