10-Port Industrial Gigabit 400W PoE++ DIN-Rail Switch

TI-BG108 (v1.xR)

- 8 x Gigabit PoE++ ports
- 2 x Gigabit shared ports (RJ-45 / SFP)
- 400W PoE power budget
- 20Gbps switching capacity
- Hardened IP50 rated metal switch
- Includes DIN-Rail and wall mounts
- Extreme operating temperature range of -40° – 75° C (40° – 167° F)
- Dual power inputs for redundancy
- Alarm output triggered by power failure
- Power supply sold separately (TI-S48048, TI-S24052)
- Lifetime Warranty
- NDAA / TAA compliant (U.S. and Canada only)

TRENDnet's 10-Port Industrial Gigabit 400W PoE++ DIN-Rail Switch, model TI-BG108, delivers network connectivity to rugged environments, while saving you on installation costs and setup time using Power over Ethernet technology. The industrial PoE++ switch features a rugged IP50 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). This hardened industrial PoE++ switch features copper gigabit PoE++ ports for high-powered device connections, and SFP ports 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++ DINRail Switch by delivering up to 95W per port of PoE power and data over existing Ethernet cables. With PoE technology inside this industrial PoE++ switch, users only need one cable to deliver both data and power. Easily network PoE devices to this hardened industrial PoE++ switch, such as high-power wireless access points, IP cameras, VoIP phone systems, IPTV decoders, and access controls.

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PoE++

A   A 400W PoE power budget supports up to eight Power over Ethernet devices with PoE (15.4W), PoE+ (30W), or PoE++ (95W) power.

Redundant Power

Dual power inputs provide redundant power with overload current protection, minimizing network downtime (power supplies sold separately).

Industrial Hardened Design

Rugged IP50 enclosure with a high degree of vibration and shock resistance, ESD/EMI/surge protection, and a wide operating temperature range -40° - 75° C (40°- 167° F).

FEATURES

PoE Power Budget
A   400W PoE power budget on this industrial 802.3bt PoE++ switch supports up to eight Power over Ethernet devices with PoE (15.4W), PoE+ (30W), or PoE++ (95W) power

Network Ports
8x Gigabit PoE++ ports and 2 x Gigabit shared ports (RJ-45 / SFP)

DIN-Rail/Wall Mounts
IP50 rated metal enclosure with included DIN-Rail and wall mount hardware

Switching Capacity
20Gbps switching capacity

Redundant Power
Dual power inputs for redundancy with overload current protection (power supplies sold separately, model TI-S48048, TI-S24052)

Alarm Relay
Industrial PoE++ switch's alarm relay is triggered by power failure of primary and/or redundant power

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

Rated for Extreme Environments
Rugged IP50 rated enclosure designed to withstand a high degree of vibration and shock, and operate within a wide temperature range -40° - 75° C (40° - 167° F) for harsh environments
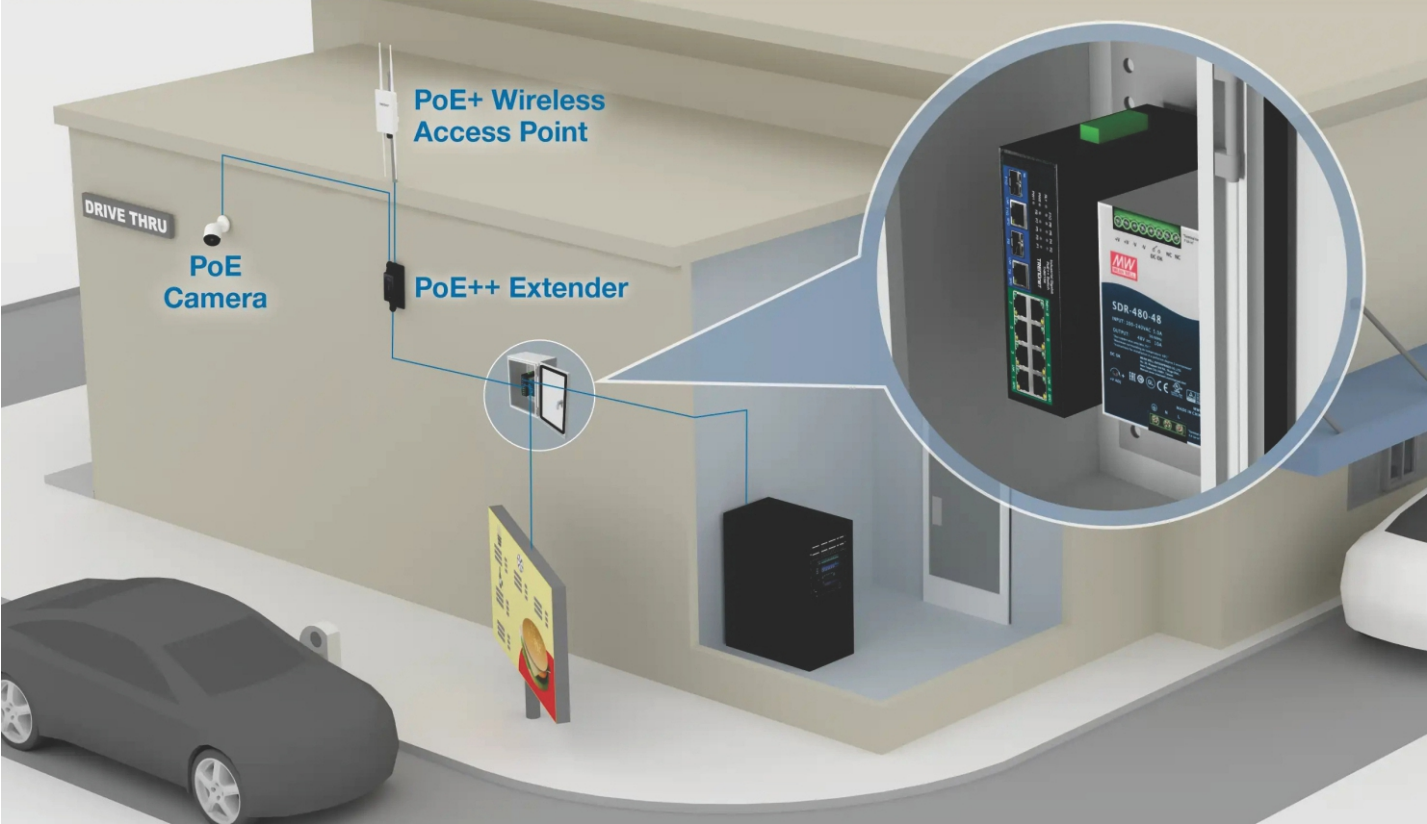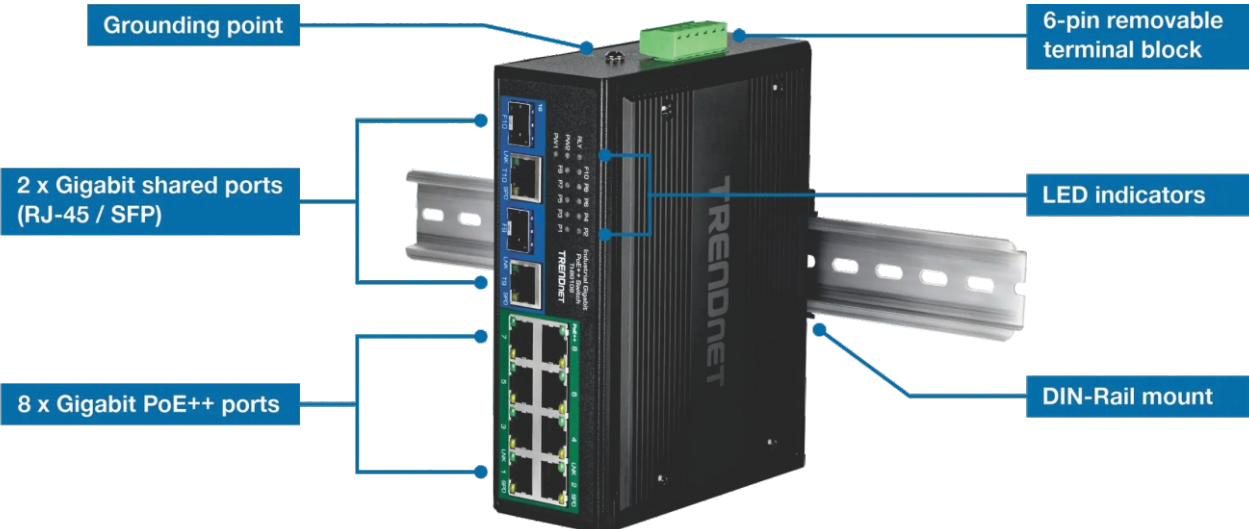
Shock and Vibration Resistant
Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-32), and vibration (IEC 60068-2-6)

Grounding Point
Grounding point on the industrial PoE++ switch protects equipment against external electrical surges

NETWORKING SOLUTION

Grounding point

6-pin removable terminal block

2 x Gigabit shared ports (RJ-45 / SFP)

LED indicators

8 x Gigabit PoE++ ports

DIN-Rail mount

PoE+ Wireless Access Point

DRIVE THRU

PoE Camera

PoE++ Extender

SDR-480-48

SPECIFICATIONS

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

Device Interface
- 8 x Gigabit PoE++ ports
- 2 x Gigabit shared ports (RJ-45 / SFP)
- 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: 2Gbps (full duplex)
- Fiber: 2Gbps (full duplex)

Performance
- Data RAM Buffer: 256KB
- Switching Fabric: 20Gbps
- MAC Address Table: 11K entries
- Jumbo Frame: 10KB
- Forwarding rate: 8.9Mpps (64-byte packet size)

Special Features
- Hardened components rated for extreme temperatures
- Multiple power inputs
- Auto-Negotiation
- Auto store and forward architecture
- Automatic address learning and address aging
- ESD 6kV protection

DC Power
- Input: 48 - 56V DC
- Compatible power supply: TI-S24048, TI-S48048, TI-S24052 (sold separately)
- Max. consumption: 8.5W (no PD)

PoE
- Up to 95W per port @ 52 – 56V DC
- Up to 30W per port @ 48 – 52V DC
- Power budget: 400W @ 56V DC
- Pin 1, 2, 7, 8 for power- and pin 3, 6, 4, 5 for power+

Terminal Block
- Redundant 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 / 0.56 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
- 515,469 hours

Housing
- IP50 metal case
- DIN-Rail mount
- Wall mount
- Grounding point

Operating Temperature
- - 40° – 75° C (40 – 167° F)

Operating Humidity
- Max. 95% non-condensing

Dimensions
- 156 x 122 x 48mm (6.1 x 4.8 x 1.9 in)

Weight
- 602g (21.2 oz)

Certifications
- CE
- FCC
- Shock (IEC 60068-2-27)
- Freefall (IEC 60068-2-32)
- Vibration (IEC 60068-2-6)
- IEC 61000-4-2
- IEC 61000-4-4
- IEC 61000-4-5

Warranty
- Lifetime Warranty

Package Contents
- TI-BG108
- 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.

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.