



9-Port Industrial 2.5G DIN-Rail PoE++ Switch with 10G SFP+ Port

TI-BG5091 (v1.xR)

- 8 x 2.5G PoE++ ports
- 1 x 10G SFP+ port
- 480W PoE power budget
- 60Gbps switching capacity
- Hardened IP50 rated metal switch
- Fast PoE minimizes wait time for powering up PoE devices
- Includes DIN-Rail and wall mounts
- Extreme operating temperature range of -40° – 75° C (-40° – 167° F)
- Multiple power inputs for redundancy
- Alarm output triggered by power failure
- Power supply sold separately (TI-S48048, TI-S24052, 48VDC3000)
- Lifetime Warranty
- NDAA / TAA compliant (U.S. and Canada only)

TRENDnet's 9-Port Industrial 2.5G DIN-Rail PoE++ Switch with 10G SFP+ Port, model TI-BG5091, 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 eight 2.5G PoE++ ports, and a 10G SFP+ port for long-distance fiber networking applications.

Installers and integrators can save on equipment costs and reduce installation time with TRENDnet's Industrial Multi-Gigabit PoE++ DIN-Rail Switch by delivering up to 95W per port of PoE power and data over existing Ethernet cables. Fast PoE minimizes wait time for PoE devices by providing power immediately at boot up. 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.



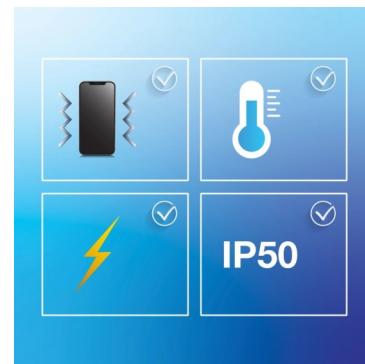
PoE++

A 480W PoE power budget supports up to eight Power over Ethernet devices with PoE (15.4W), PoE+ (30W), or PoE++ (95W) power.



Multi-Gigabit

Equipped with eight 2.5G Ethernet ports and one 10G SFP+ port that provides high-speed network connection.



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 of -40° - 75° C (-40° - 167° F).

FEATURES



PoE Power Budget

A 480W 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



Fast PoE

With Fast PoE, the industrial PoE++ switch provides power to a connected PoE device within a few seconds of the switch receiving power—no need to wait for the switch to fully boot up



Network Ports

8 x 2.5G PoE++ ports and 1 x 10G SFP+ port



DIN-Rail/Wall Mounts

Metal enclosure with included DIN-Rail and wall mount hardware



IP50 Housing

IP50 rated metal housing protects the switch from most environments with dust particles



Switching Capacity

60Gbps switching capacity



Redundant Power

Multiple power inputs for redundancy with overload current protection (power supplies sold separately, models TI-S48048, TIS24052, 48VDC3000)



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 12KB), 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 of -40° - 75° C (-40° - 167° F) for harsh environments



Shock and Vibration Resistant

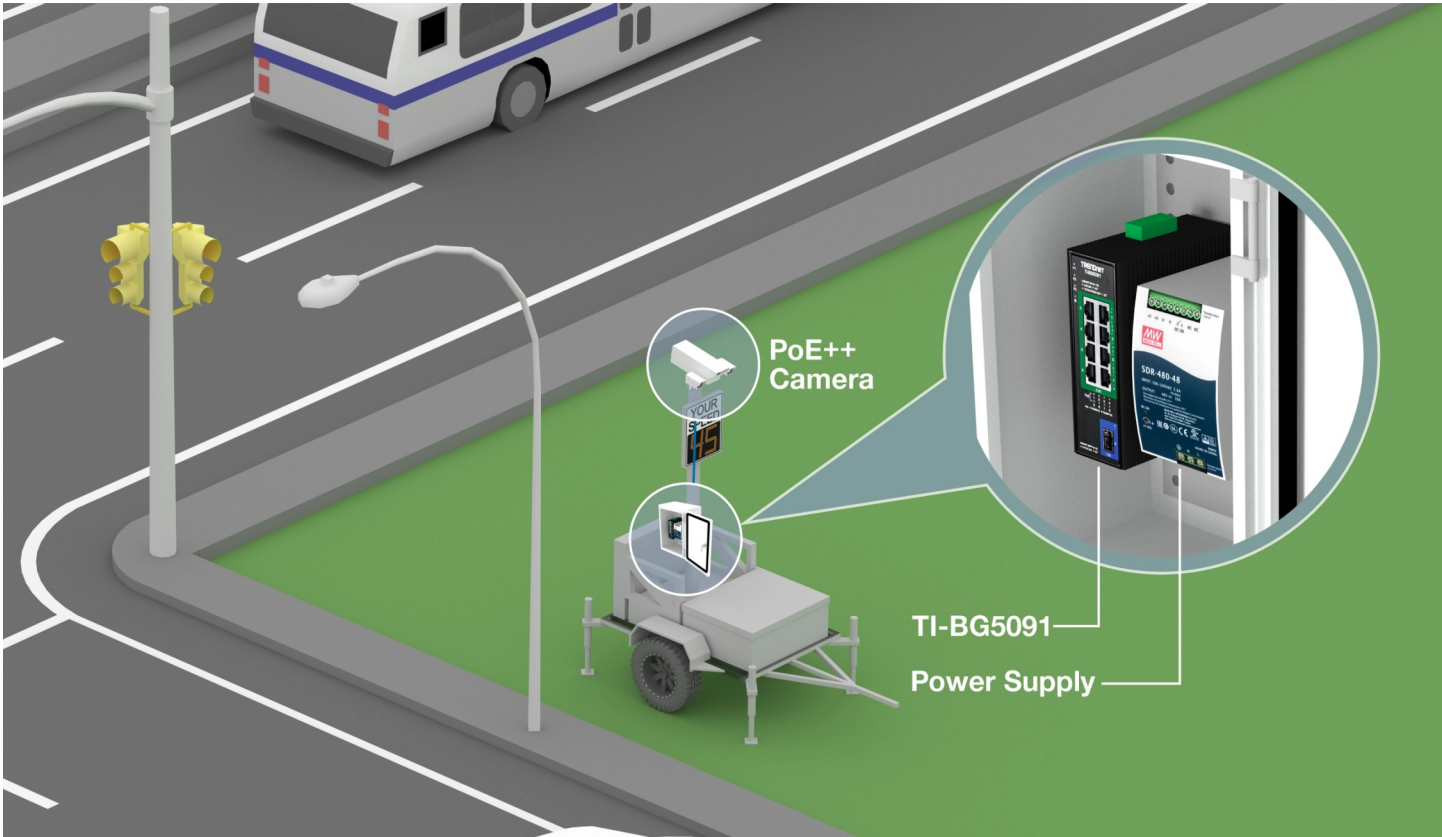
Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-32), and vibration (IEC 60068-2-6)



Grounding Point

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

NETWORKING SOLUTION



SPECIFICATIONS

Standards

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3z
- IEEE 802.3x
- IEEE 802.3ae
- IEEE 802.3af
- IEEE 802.3an
- IEEE 802.3at
- IEEE 802.3bt
- IEEE 802.3bz

Device Interface

- 8 x 2.5G PoE++ ports (10Mbps/100Mbps/1Gbps/2.5Gbps)
- 1 x 10G SFP+ port (1Gbps/10Gbps)
- 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)
- 2.5 Gigabit: 5Gbps (full duplex)
- 1G Fiber: 2Gbps (full duplex)
- 10G Fiber: 20Gbps (full duplex)

Performance

- Data RAM Buffer: 1MB
- Switching Fabric: 60Gbps
- MAC Address Table: 4K entries
- Jumbo Frame: 12KB
- Forwarding rate: 44.64Mpps (64-byte packet size)

Special Features

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

DC Power

- Input: 48 - 57V DC
- Compatible power supply: TI-S24052, TI-S48048 (sold separately)
- Max. consumption: 10.08W (no PD)

AC Power

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

PoE

- PoE: up to 15.4W per port
- PoE+: up to 30W per port
- PoE++: up to 95W per port
- Power budget: 480W

Terminal Block

- 6-pin terminal block
- Alarm relay contact
- Wire range: 0.34mm² to 2.5mm²
- 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

- 83,000 hours @ 75°C

Housing

- IP50 metal case
- DIN-Rail mount
- Wall mount
- Grounding point
- 6kV ESD protection

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

- 630g (1.38 lbs.)

Certifications

- CE
- FCC
- Shock (IEC 60068-2-27)
- Freefall (IEC 60068-2-31)
- Vibration (IEC 60068-2-6)
- IEC 61000-6-2
- IEC 61000-6-4
- IEC 61000-4-5

Warranty

- Lifetime Warranty

Package Contents

- TI-BG5091
- 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.