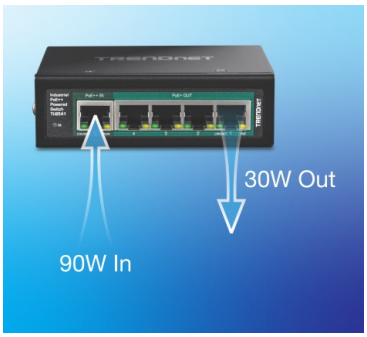
5-Port Industrial Gigabit PoE++ Powered DIN-Rail Switch with PoE Pass-Through

TI-B541 (v1.0R)

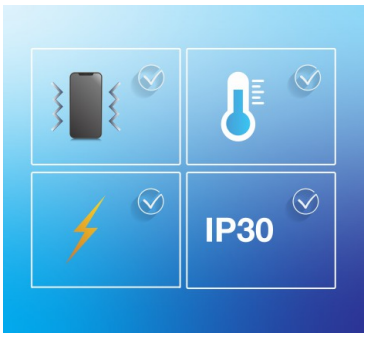
- 1 x Gigabit PoE++ input port
- 4 x Gigabit PoE+ output ports
- 65W PoE power budget with PoE++ Type 4 (90W) input power
- 10Gbps switching capacity
- Hardened IP30 rated metal switch
- Includes DIN-Rail and wall mounts
- Extreme operating temperature range of -40° - 75° C (-40° - 167° F)
- NDAA / TAA compliant (U.S. and Canada only)

TRENDnet's 5-Port Industrial Gigabit PoE++ Powered DIN-Rail Switch with PoE Pass-Through, model TI-B541, is powered by a PoE++ switch or injector, no AC adapter is required. The PoE-powered industrial switch features four gigabit PoE+ ports to power devices such as IP cameras, VoIP handsets, and wireless access points. The switch's PoE++ powered feature allows it to be installed in a place where there is no power source nearby. With an operating temperature range of -40°– 75 °C (-40° – 167 °F), the hardened IP30 rated housing is suitable for extreme industrial environments.



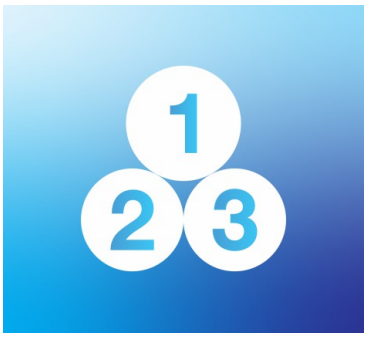
PoE++ Powered

No AC adapter required—this switch is powered by a PoE++ switch or injector. It features four gigabit PoE+ ports to power PoE devices such as IP cameras.



Industrial Hardened Design

Rugged IP30 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)).



Easy Installation

No configuration needed, simply connect PoE network devices to the reliable PoE-powered industrial switch.

FEATURES

PoE++ Powered

PD-powered industrial switch, no external power required – powered by a PoE++ switch or injector

PoE Power

This PoE pass-through industrial switch features four gigabit PoE pass-through ports with a 60W total PoE power budget

DIN-Rail/Wall Mounts

The PoE-powered industrial switch features an IP30 rated metal enclosure with included DIN-Rail and wall mount hardware

Rated for Extreme Environments

Rugged IP30 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

Jumbo Frame

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

Switching Capacity

10Gbps switching capacity

Shock and Vibration Resistant

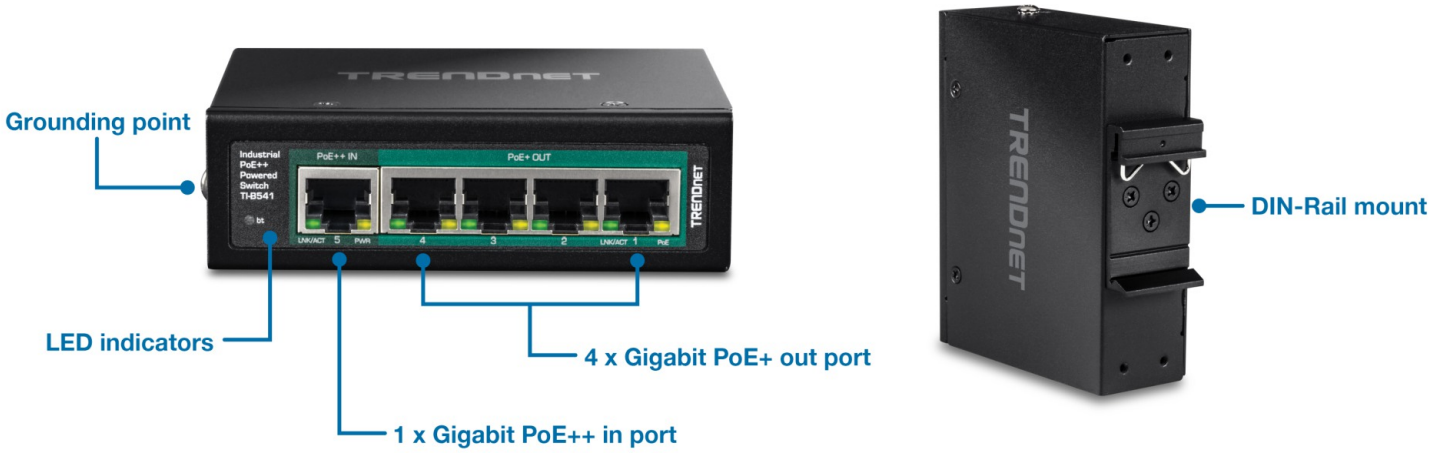
Rated for shock (IEC 60068-2-27), freefall (IEC 60068-2-32), and vibration (IEC 60068-2-6)

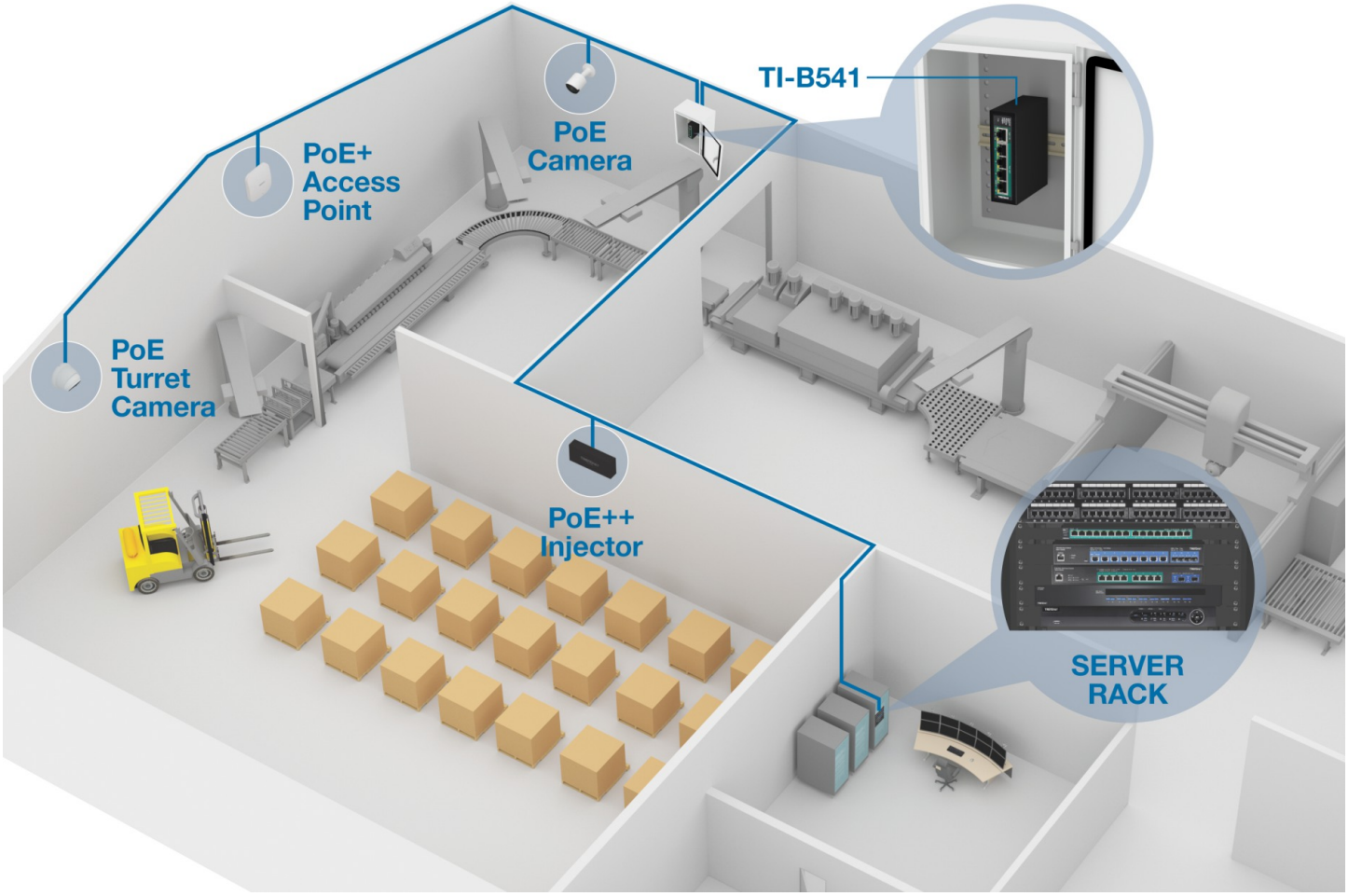
Grounding Point

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

LED Indicators

LED indicators on the PoE-powered industrial switch convey port status


Grounding point
LED indicators
1 x Gigabit PoE++ in port
4 x Gigabit PoE+ out port
DIN-Rail mount


TI-B541
PoE+ Access Point
PoE Camera
PoE Turret Camera
PoE++ Injector
SERVER RACK

SPECIFICATIONS

Standards

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

Device Interface

- 1 x Gigabit PoE++ in port
- 4 x Gigabit PoE+ out port
- 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)

Performance

- Data RAM Buffer: 128KB
- Switching Fabric: 10Gbps
- MAC Address Table: 2K entries
- Jumbo Frame: 9KB
- Forwarding rate: 7.44Mpps (64-byte packet size)

Special Features

- PoE++ Powered
- Hardened components rated for extreme temperatures
- Auto-Negotiation

Power

- IEEE 802.3bt Type 4 (90W), IEEE 802.3bt Type 3 (60W), or IEEE 802.3at (30W), PoE input only (no external power supply)
- IEEE 802.3bt Type 4 PoE PD Class 7
- IEEE 802.3bt Type 3 PoE PD Class 5
- IEEE 802.3at Type 2 PoE PD Class 4
- IEEE 802.3af Type 1 PoE PD Class 0
- Max. consumption: 3.9W (no PoE)

PoE

- 65W PoE budget with IEEE 802.3bt Type 4 (90W) input power
- 50W PoE budget with IEEE 802.3bt Type 3 (60W) input power
- 21W PoE budget with IEEE 802.3at (30W) input power

MTBF

- 537,083 hours @ 25°C

Housing

- IP30 metal case
- DIN-Rail mount
- Wall mount
- Grounding point

Operating Temperature

- -40° – 75° C (-40° – 167° F)

Operating Humidity

- Max. 95% non-condensing

Dimensions

- 102 x 80 x 31mm (4.01 x 3.14 x 1.22 in.)

Weight

- 160g (0.35 lb.)

Certifications

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

Warranty

- 3 year

Package Contents

- TI-B541
- Quick Installation Guide

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.

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