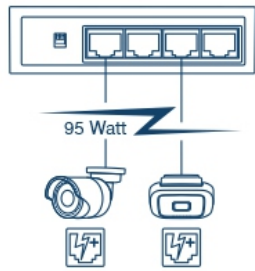# TRENDnet®

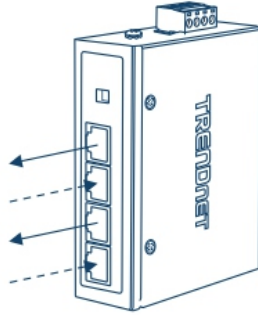# 95W 2-Port Industrial 2.5G PoE++ Injector

TI-IG290 (v1.0R)

- 2 x 2.5G PoE++ ports (Data + PoE out)
- 2 x 2.5G ports (Data in)
- 180W PoE power budget
- Supports PoE (15.4W), PoE+ (30W), and PoE++ (95W) devices
- Uses IEEE 802.3af, IEEE 802.3at, and IEEE 802.3bt industry PoE standards for greater device interoperability
- Network a PoE device located up to 100m (328 ft.) away

- Fanless design eliminates operating noise and lowers energy consumption
- Extreme operating temperature range -40 to 75 °C (-40 to 167 °F)
- Redundant power inputs with overload current protection
- Includes DIN-Rail mount and wall mount
- Power supply sold separately (model TI-S24048)

TRENDnet's 95W 2-Port Industrial 2.5G PoE++ Injector, model TI-IG290, allows users to add PoE++ power to a non-PoE 2.5G switch. Connect the 2-port industrial 2.5G PoE++ injector to a non-PoE 2.5G switch, and then run Ethernet cables up to 100 meters (328 ft.) to network two PoE/PoE++ devices. This multi-port industrial 2.5G PoE++ injector supplies up to 95W of power to two PoE devices with a total PoE budget of 180W. The fanless design conveniently eliminates operating noise and lowers unnecessary energy consumption. The dual port industrial 2.5G PoE++ injector is equipped with an IP30 rated metal enclosure, designed to withstand a high degree of vibration and shock, while operating within a wide temperature range of -40° – 75° C (-40° – 167° F) for harsh industrial environments.

2-Port PoE
This multi-port 2.5G PoE++ injector supplies up to 95W of power to two PoE devices with a total PoE budget of 180W.
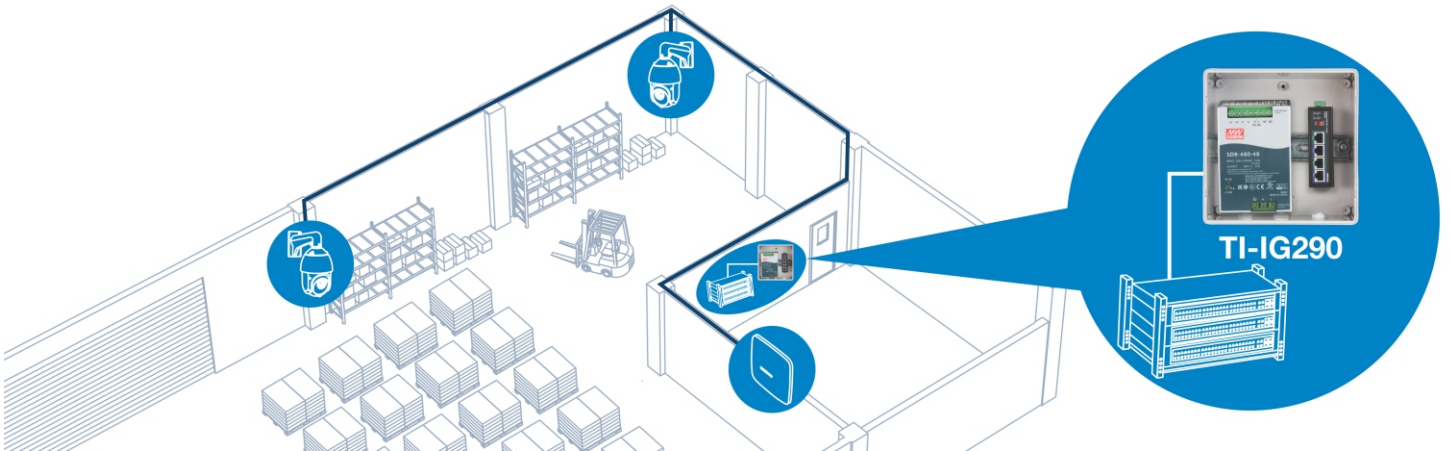
2.5G Ports
Features two high-speed 2.5G ports (data in) and two high-speed 2.5G PoE++ ports (data + PoE out).

Industrial Design
IP30 rated metal enclosure with a high degree of vibration and shock resistance, and a wide operating temperature range of -40° – 75° C (-40° – 167° F).

NETWORKING SOLUTION

TI-IG290

FEATURES

2-Port PoE++

The 2-port industrial 802.3 bt PoE++ injector supplies up to 95W of power to two PoE (IEEE 802.3af), PoE+ (IEEE 802.3at), or PoE++ (IEEE 802.3bt) devices

PoE Distance

Provides two PoE network connections up to 100m (328 ft.) away from the 2-port industrial 802.3bt PoE++ adapter

2.5G Ports

2 x 2.5G ports (data in) and 2 x 2.5G PoE++ ports (data + PoE out)

LED Indicators

LEDs indicate PoE connectivity and power status

Shock and Vibration Resistant

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

Industrial Design

Equipped with an IP30 rated metal enclosure, designed to withstand a high degree of vibration and shock, while operating within a wide temperature range of -40° – 75° C (-40° – 167° F) for industrial environments
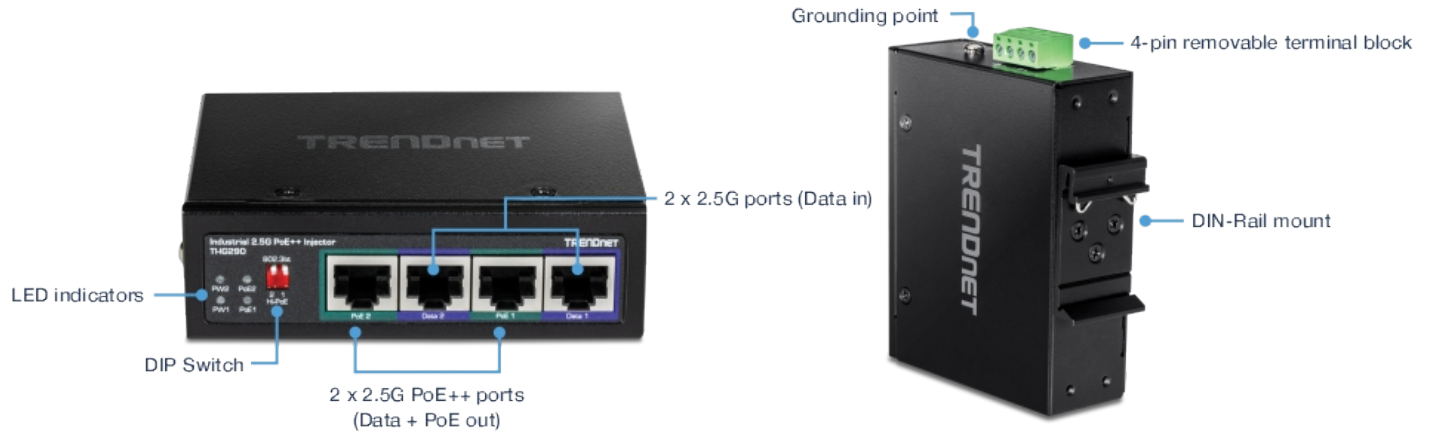
Fanless Design

Fanless design on the 2-port industrial 2.5G PoE++ injector conveniently eliminates operating noise and lowers unnecessary energy consumption

Grounding Point

Grounding point protects equipment from external electrical surges

TRENDnet®

SPECIFICATIONS

Standards
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3af
- IEEE 802.3at
- IEEE 802.3bt
- IEEE 802.3bz

Device Interface
- 2 x 2.5GBASE-T ports
- 2 x 2.5GBASE-T PoE++ ports
- 4-pin removable terminal block
- LED indicators
- 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)
- 2.5 Gigabit: 5000Mbps (full duplex)

Special Features
- 90W 4-Pair PoE ports
- 2.5Gbps speed
- Hardened components rated for extreme temperatures
- Dual redundant power inputs
- Auto-Negotiation

Power
- Input: 52 – 56 V DC
- Compatible power supply: TI-S24048 (sold separately)
- Max. consumption: 95W

PoE
- PoE budget: 180W
- Pin 3,6 for power+ and pin 1,2 for power-
- Pin 4,5 for power+ and pin 7,8 for power-

Terminal Block
- Redundant power inputs, 4 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

MTBF
- 716,685 hours

Housing
- IP30 metal case
- DIN-rail mount
- Wall mount
- Grounding point
- Contact 6KV/Air 8 KV ESD protection
- 2 KV surge protection

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

Operating Humidity
- Max. 95% non-condensing

Dimensions (L x W x H)
- 103 x 81 x 30mm (4 x 3.2 x 1.2 in.)

Weight
- 170g (6 oz.)

Certifications
- CE
- FCC
- IEC EN60950-1
- Shock (IEC 60068-2-27)
- Freefall (IEC 60068-2-32)
- Vibration (IEC 60068-2-6)

Warranty
- 3 year

Package Contents
- TI-IG290
- 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.