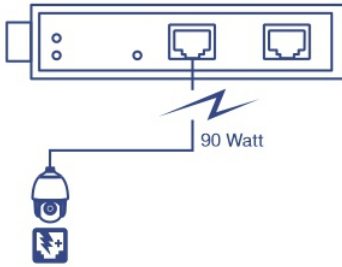# Hardened Industrial 90W Gigabit PoE++ Injector
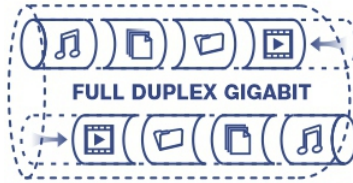
TI-IG90 (v1.0R)

- Hardened IP30 rated Gigabit PoE++ Injector
- PoE (15.4W), PoE+ (30W), or PoE++ (90W) power
- Network a PoE device located up to 100m (328 ft.) away
- Extreme -40 to 75 °C (-40 to 167 °F) operating temperature range
- Redundant power inputs with overload current protection
- Includes DIN-rail mount and wall mount
- Power supply sold separately (model TI-S12048)

TRENDnet's TI-IG90 is a reliable IP30 rated Industrial Gigabit PoE++ Injector with hardened components rated for extreme and rugged industrial environments. Connect the TI-IG90 industrial PoE injector to a non-PoE Gigabit switch, and then run an Ethernet cable up to 100 meters (328 ft.) to network a PoE device. The TI-IG90 industrial PoE injector supplies power to a PoE, PoE+, UPoE, or PoE++ (up to 90W) device. This industrial PoE injector features redundant power inputs with overload current protection to support zero downtime applications. Both DIN-rail and wall mount hardware are included with the industrial PoE injector.
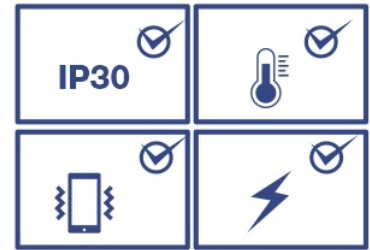
TRENDnet®

90 Watt

FULL DUPLEX GIGABIT

IP30

4-Pair PoE
Supplies power to a PoE (up to 15.4W), PoE+ (up to 30W), or PoE++ (up to 90W) device.
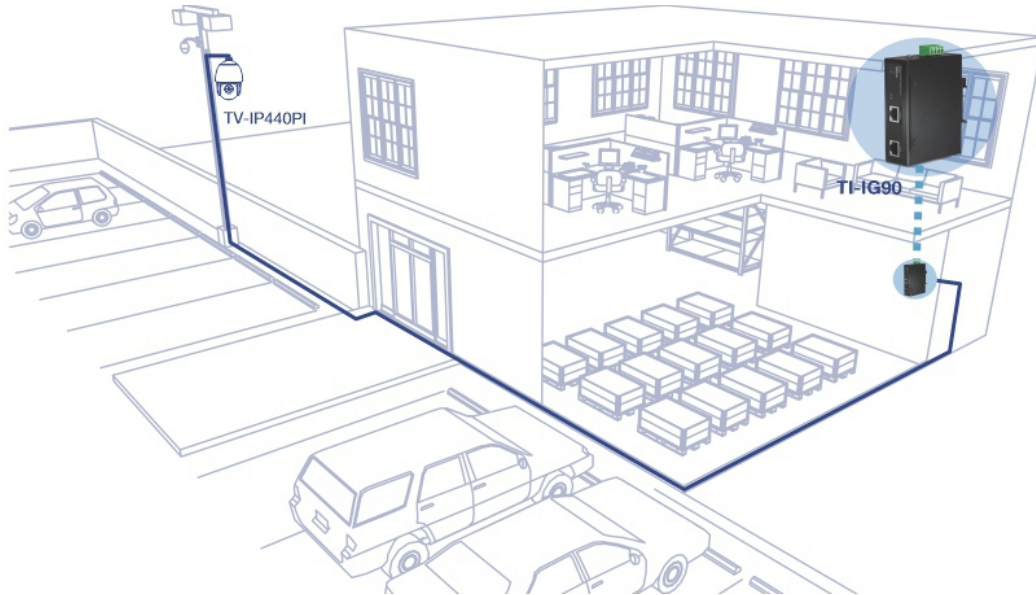
Gigabit Ports
The industrial PoE injector features 1 x gigabit port and 1 x gigabit PoE++ port.

Installation Flexibility
A rugged IP30 rated metal enclosure with DIN-rail and wall mount brackets accommodate most installations scenarios.

NETWORKING SOLUTION

TV-IP440PI

TI-IG90

LED indicators

4PPoE Gigabit port

Gigabit port

4-pin removable terminal block

+ V1 -   + V2 -

Terminal block port

Grounding point

IP30 metal case

DIN-Rail mount

Wall mount

FEATURES

4-Pair PoE (PoE++)
Supplies power to a PoE (up to 15.4W), PoE+ (up to 30W), or PoE++ (up to 90W) device

PoE Distance
Provides a 4-Pair PoE network connection up to 100m (328 ft.) away from the industrial PoE injector

Redundant Power
Redundant power inputs with overload current protection (power supply sold separately, model: TI-S12048)

LED Indicators
LED indicators on the industrial PoE injector confirm PoE connectivity

Gigabit Ports
1 x Gigabit port and 1 x Gigabit PoE++ port

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

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

Grounding Point
Industrial PoE injector features grounding point to protect equipment from external electrical surges

Easy Installation
No configuration needed, simply connect a PoE network device to the industrial PoE injector

DIN-Rail Mount
IP30 rated metal enclosure, includes DIN-rail mount and wall mount brackets

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

SPECIFICATIONS

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

Device Interface
- 1 x Gigabit port
- 1 x PoE++ Gigabit port
- 4-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)

Power
- Input: 52 – 56 V DC
- Compatible power supply: TI-S12048 (sold separately)
- Max. consumption (PoE): 95W

PoE
- PoE budget: 90W
- 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

Special Features
- 90W 4-Pair PoE port
- Hardened components rated for extreme temperatures
- Redundant power inputs
- Auto-Negotiation
- ESD contact 6kV, air 8kV, and surge 2kV protection

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

MTBF
- >716,685 hours

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

Operating Humidity
- Max. 95 % non-condensing

Dimensions (L x W x H)
- 104 x 82 x 32mm (4.1 x 3.2 x 1.2 in.)

Weight
- 154g (5.4 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-IG90
- Quick Installation Guide
- Removable terminal block
- DIN-rail and wall mount kit