



INJ-102GT

Industrial 2-port Gigabit High Power PoE Injector

Features

- Supports 2x10/100/1000Base-T(X) for power and data Output
- Fully compliant with IEEE802.3at/802.3af
- Auto protection for Over Voltage Power Input and over current output
- Supports Power Output up to 30Watts at 50VDC input
- IP-30 Rugged Case Design
- DIN-Rail and Wall Mount Design

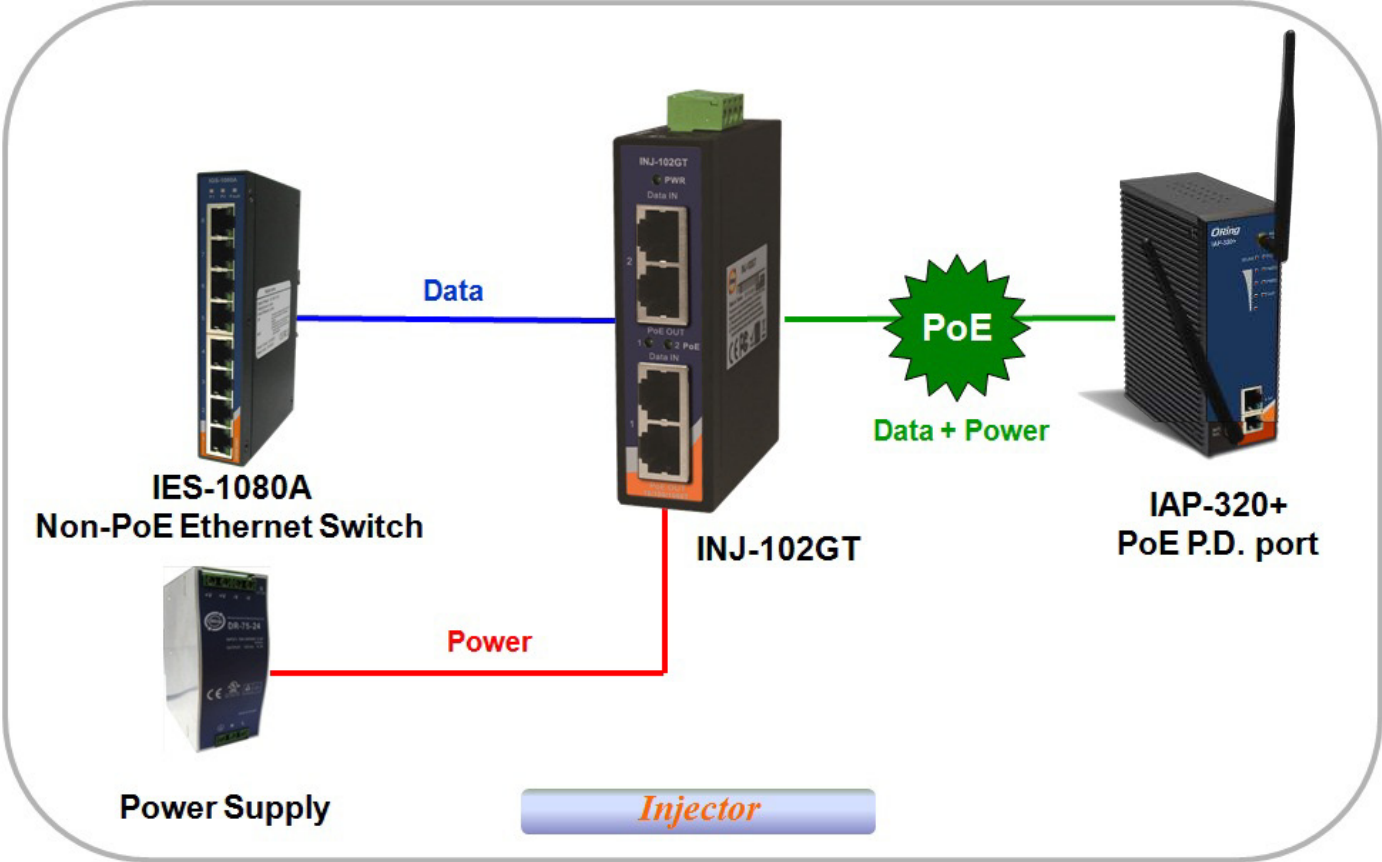


Introduction

The INJ-102GT PoE Injector is an advanced IEEE802.3at compliant device with Intelligent Detection, that provided 2-ports 10/100/1000Base-T(X) PoE outputs. The device does not turn on power until it detects a valid PoE signature from the PoE devices attached downstream on the Ethernet cable. This protection against damage to non-PoE compliant equipment which may be connected to the Ethernet cable. Because of this intelligent detection, only an IEEE 802.3at/802.3af compliant device can be powered with the INJ-102GT PoE Injector. Typically in gigabit networks the maximum allowable CAT5 cable length is about 100 meters, due to the limitation of the Ethernet standards. Because of its 50~57V insertion, the installer doesn't need to worry about voltage drops caused by cable length. The INJ-102GT PoE Injector can function with any PoE P.D. equipment which is fully compliant with the IEEE 802.3at/802.3af PoE standards.

Note: The equipment being powered must be fully IEEE 802.3at/802.3af compliant in order for the power supply to be able to sense the PoE devices signature and apply power. Power is supplied on Ethernet pins 1/2 (V+) and 3/6 (V-).

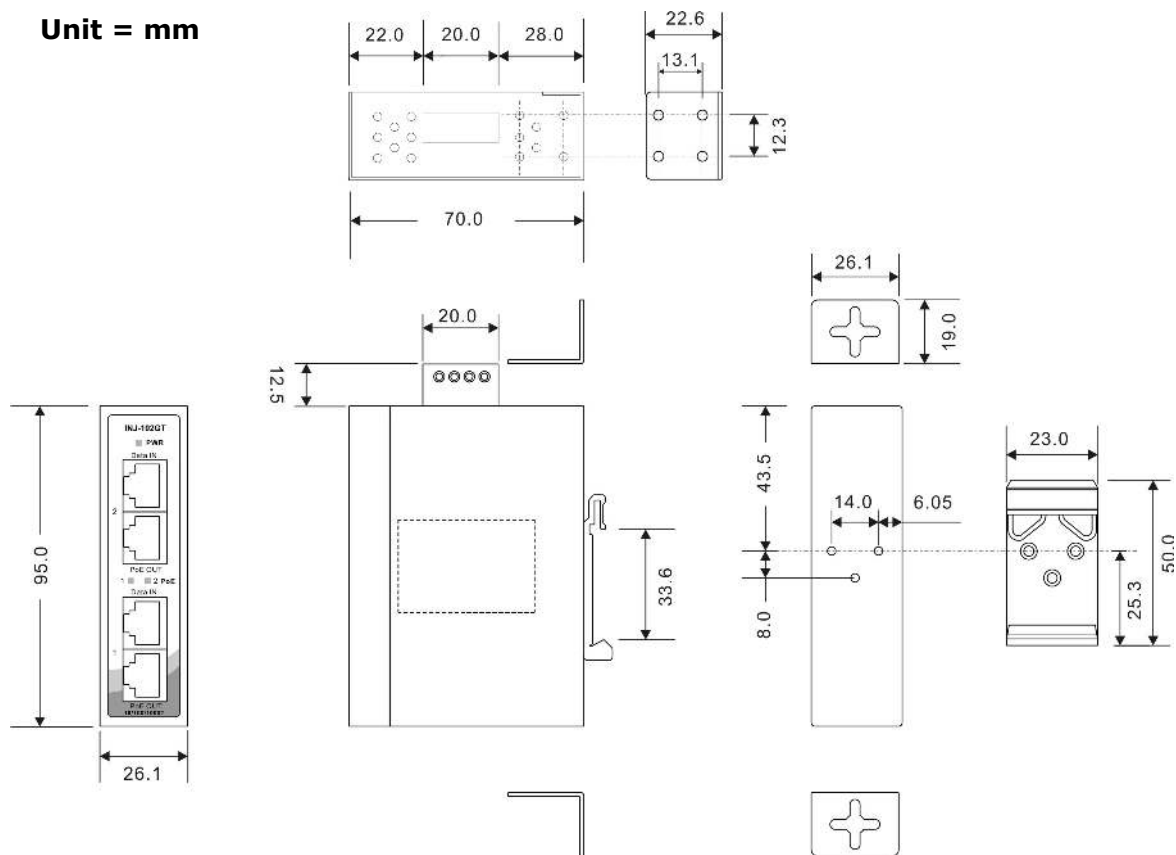
Connection



Connections of Injector

Dimension

Unit = mm



Connector and Pin Definition

1000 Base-T

| Pin | RJ-45 Input (Data Only) | | RJ-45 Output (Data and Power) | |
|-----|-------------------------|-------------|-------------------------------|----------------------------------|
| | Symbol | Description | Symbol | Description |
| 1 | BI_DA+ | Data BI_DA+ | BI_DA+ (Vdc+) | Data BI_DA+ and Feeding Power(+) |
| 2 | BI_DA- | Data BI_DA- | BI_DA- (Vdc+) | Data BI_DA- and Feeding Power(+) |
| 3 | BI_DB+ | Data BI_DB+ | BI_DB+ (Vdc-) | Data BI_DB+ and Feeding Power(-) |
| 4 | BI_DC+ | Data BI_DC+ | BI_DC+ | Data BI_DC+ |
| 5 | BI_DC- | Data BI_DC- | BI_DC- | Data BI_DC- |
| 6 | BI_DB- | Data BI_DB- | BI_DB- (Vdc-) | Data BI_DB- and Feeding Power(-) |
| 7 | BI_DD+ | Data BI_DD+ | BI_DD+ | Data BI_DD+ |
| 8 | BI_DD- | Data BI_DD- | BI_DD- | Data BI_DD- |

10/100 Base-TX

| Pin | RJ-45 Input (Data Only) | | RJ-45 Output (Data and Power) | |
|-----|-------------------------|---------------|-------------------------------|------------------------------------|
| | Symbol | Description | Symbol | Description |
| 1 | Rx+ | Data Receive | Rx+ (Vdc+) | Data Receive and Feeding power(+) |
| 2 | Rx- | Data Receive | Rx- (Vdc+) | Data Receive and Feeding power(+) |
| 3 | Tx+ | Data Transmit | Tx+ (Vdc-) | Data Transmit and Feeding power(-) |
| 4 | NC | Not Connected | NC | Not Connected |
| 5 | NC | Not Connected | NC | Not Connected |
| 6 | Tx- | Data Transmit | Tx- (Vdc-) | Data Transmit and Feeding power(-) |
| 7 | NC | Not Connected | NC | Not Connected |
| 8 | NC | Not Connected | NC | Not Connected |

Note: pins 3 and 6 (-Vdc) should not be shorted to ground

Specifications

| ORing Injector Model | INJ-102GT |
|--|---|
| Physical Ports | |
| RJ-45 Ethernet Port Input | 2 |
| RJ-45 Ethernet Port with P.S.E. Output | 2 |
| Operating Voltage | |
| Input Voltage | 50 ~ 57 VDC |
| Output Power | 50V / 600mA, 30 Watts max. Per port |
| LED Indicators | |
| Power Indicator | PWR / Ready: 1 x LED Green On: Power is on and functioning Normally. |
| PoE Indicators | 2 x LED Blue On: PoE Device Link Blue Blinking: Detecting PoE Device Blue Off : None PoE Device Detected |
| Protection | |
| Short Circuit Protection | Present |
| Over Load Protection | Present |
| High Voltage Protection | Present |
| Physical Characteristic | |
| Enclosure | IP-30 |
| Dimension (W x D x H) | 26.1 (W) x 70 (D) x 95 (H)mm (1.03 x 2.76 x 3.74 inch) |
| Weight (g) | 250g |
| Environmental | |
| Storage Temperature | -40 to 80°C (-40 to 176°F) |
| Operating Temperature | -20 to 70°C (-4 to 158°F) |
| Operating Humidity | 5% to 90% Non-condensing |

| Regulatory approvals | |
|----------------------|--|
| EMI | FCC Part 15, CISPR (EN55022) class A |
| EMS | EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 |
| Shock | IEC60068-2-27 |
| Free Fall | IEC60068-2-32 |
| Vibration | IEC60068-2-6 |
| Safety | EN60950-1 |
| Warranty | 2 years |

Ordering Information

INJ-102GT

| Available Model | Model Name | Description |
|-----------------|------------|---|
| | INJ-102GT | Industrial 2-port Gigabit High Power PoE Injector |

Packing List

- INJ-102GT x 1
- DIN-Rail Kit x 1
- Wall-mount Kit x 1

Optional Accessories

- DR-75-48 : 75 Watts DIN-Rail power supply
- DR-120-48 : 120 Watts DIN-Rail power supply