



# 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

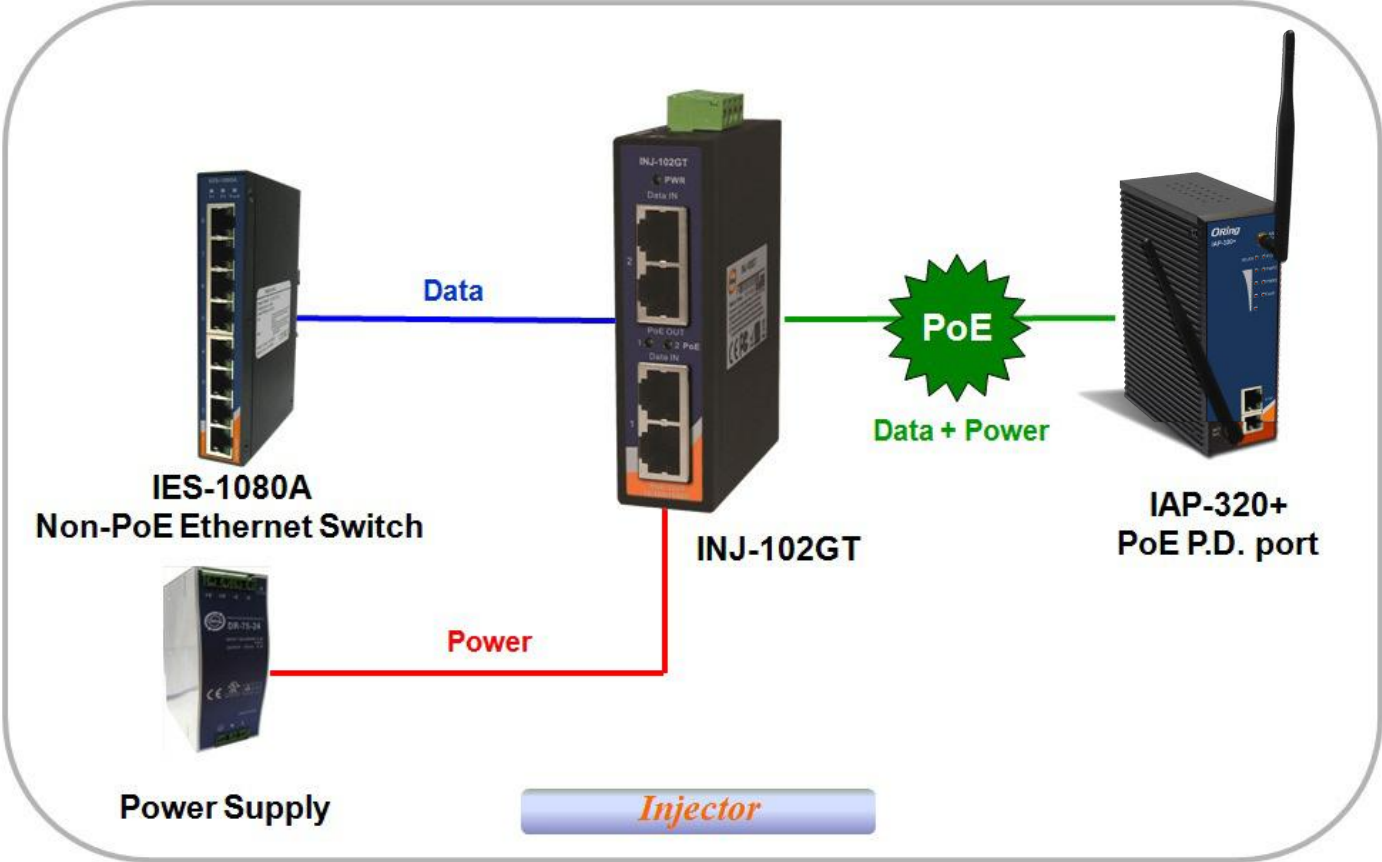


### Introduction

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-).**

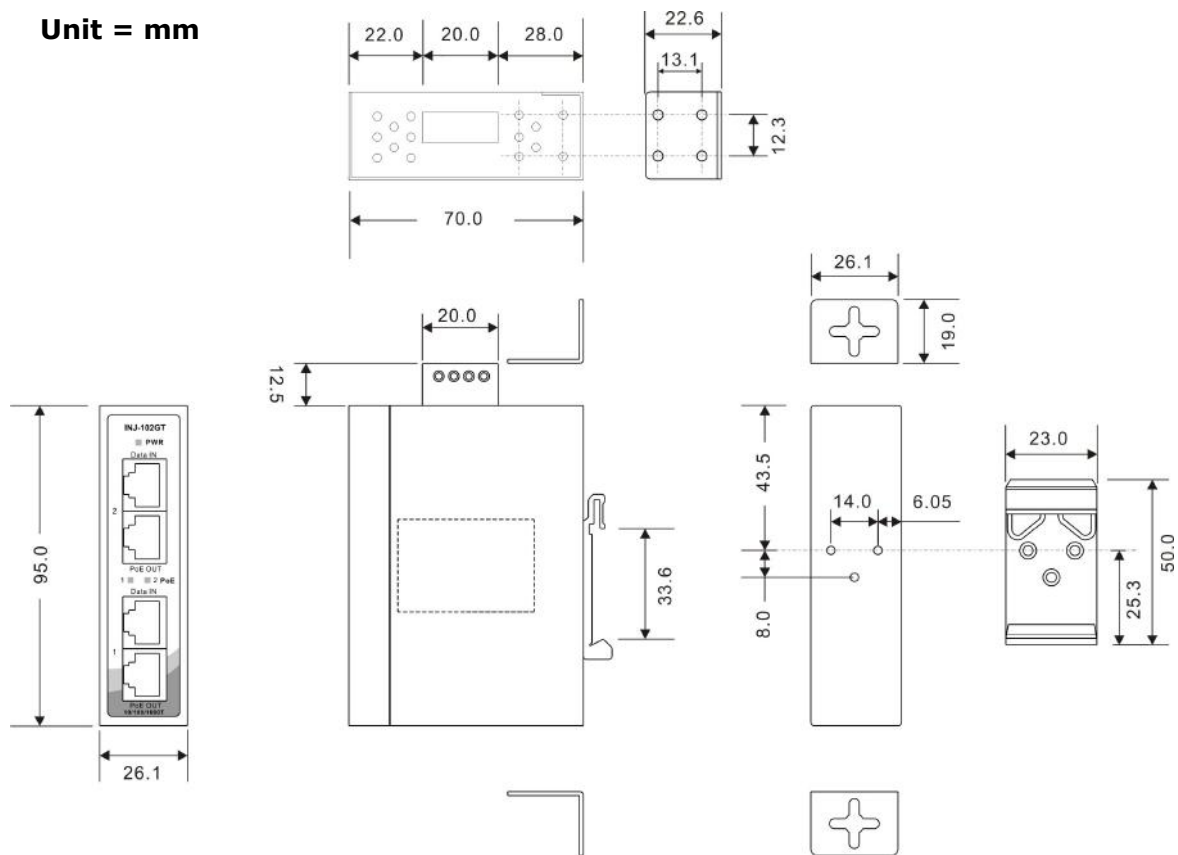
Connection



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
<b>Physical Ports</b>	
RJ-45 Ethernet Port Input	2
RJ-45 Ethernet Port with P.S.E. Output	2
<b>Operating Voltage</b>	
Input Voltage	50 ~ 57 VDC
Output Power	50V / 600mA, 30 Watts max. Per port
<b>LED Indicators</b>	
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
<b>Protection</b>	
Short Circuit Protection	Present
Over Load Protection	Present
High Voltage Protection	Present
<b>Physical Characteristic</b>	
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
<b>Environmental</b>	
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
<b>Warranty</b>	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