

# INJ-102GT (HW version2.0)

## Industrial 2-port Gigabit High Power PoE Injector

### Features

- Supports 2x10/100/1000Base-T(X) for power and data Output
- Fully compliant with IEEE 802.3at/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

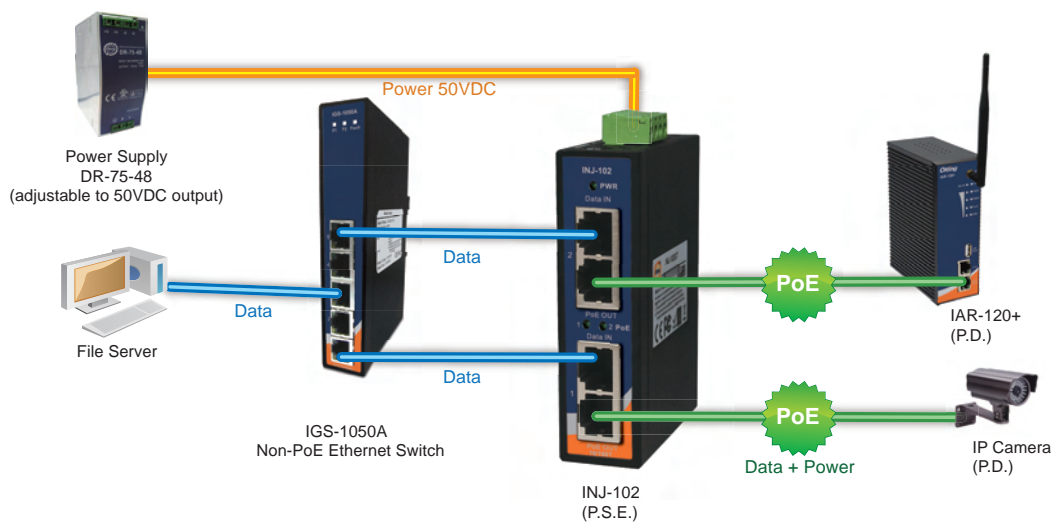


### Introduction

The INJ-102GT PoE Injector is an advanced IEEE802.3at compliant device with Intelligent Detection, providing 2-ports of 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 mechanism protects 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 Ethernet networks the maximum allowable CAT5 cable length is about 100 meters – due to the limitation of the Ethernet standards. Because of its 50V insertion, the installer does not 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.

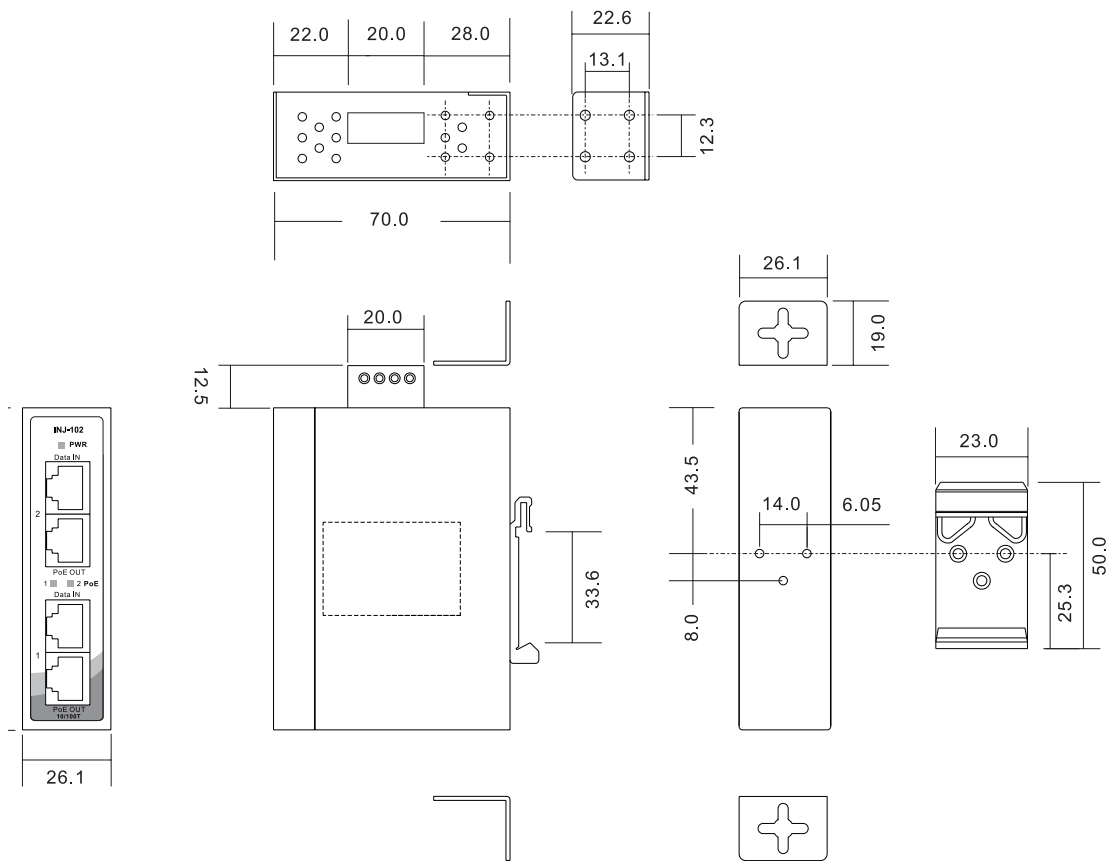
**Note : The equipment being powered must be fully IEEE 802.3at/802.3af compliant in order for the power supply to be able to sense the PoE devices signature and apply power. Power is supplied on Ethernet pins 1/2 (V+) and 3/6 (V-).**

### Practical Operation



PoE Injector Connections

## Dimensions



(Unit=mm)

## Connectors and Pin Definitions

Pin No.	RJ-45 Output (Data and Power)		RJ-45 Input (Data Only)	
	Symbol	Description	Symbol	Description
1	Rx+ (VDC+)	Data Receive and Feeding power(+)	Rx+	Data Receive
2	Rx- (VDC+)	Data Receive and Feeding power(+)	Rx-	Data Receive
3	Tx+ (VDC-)	Data Transmit and Feeding power(-)	Tx+	Data Transmit
4	NC	Not Connected	NC	Not Connected
5	NC	Not Connected	NC	Not Connected
6	Tx- (VDC-)	Data Transmit and Feeding power(-)	Tx-	Data Transmit
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-102
<b>Physical Ports</b>	
10/100/1000Base-T(X) in RJ-45 Ethernet Port Input	2
10/100/1000Base-T(X) in RJ-45 Ethernet Port with P.S.E. Output	2
<b>Operating Voltage</b>	
Input Voltage	50VDC on 4-pin terminal block
Output Power	50V / 600mA, 30 Watts max. per port
<b>LED Indicator</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 Characteristics</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
<b>Regulatory Approvals</b>	
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-102

Available Model	Model Name	Description
	INJ-102	Industrial 2-port Gigabit High Power PoE Injector
<b>Packing List</b>		<b>Optional Accessories (Can be purchased separately)</b>
<ul style="list-style-type: none"> <li>INJ-102</li> <li>DIN-Rail Kit</li> <li>Wall-mount Kit</li> <li>Quick Installation Guide</li> </ul>		<ul style="list-style-type: none"> <li>DR-75-48 : 75 Watts DIN-Rail power supply (adjustable to 50 VDC output)</li> <li>DR-120-48 : 120 Watts DIN-Rail power supply (adjustable to 50 VDC output)</li> <li>SDR-240-48, 240W DIN-Rail power supply</li> <li>SDR-480-48, 480W DIN-Rail power supply</li> </ul>