

# 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
- Supports Power Output up to 30Watts at 50VDC input
- IP-30 Rugged Case Design
- DIN-Rail and Wall Mount Design











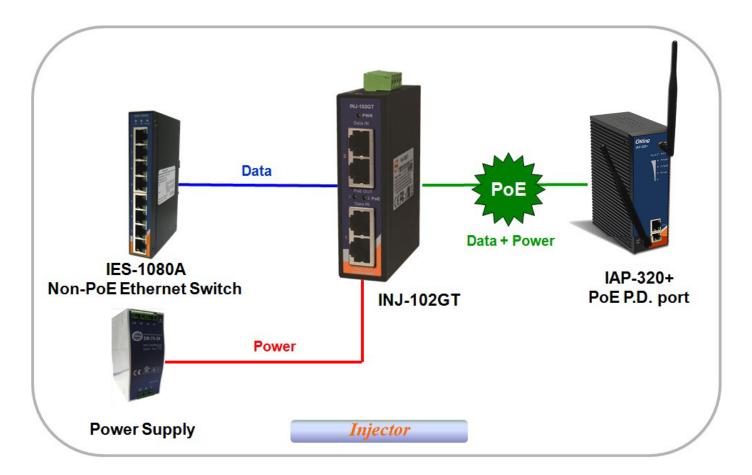




The INJ-102GT PoE Injector is an advanced IEEE802.3at compliant device with Intelligent Detection, that provided 2-ports 10/100/1000Base-T(X) PoE outputs. The device does not turn on power until it detects a valid PoE signature from the PoE devices attached downstream on the Ethernet cable. This protection 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  $50 \sim 57V$  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.

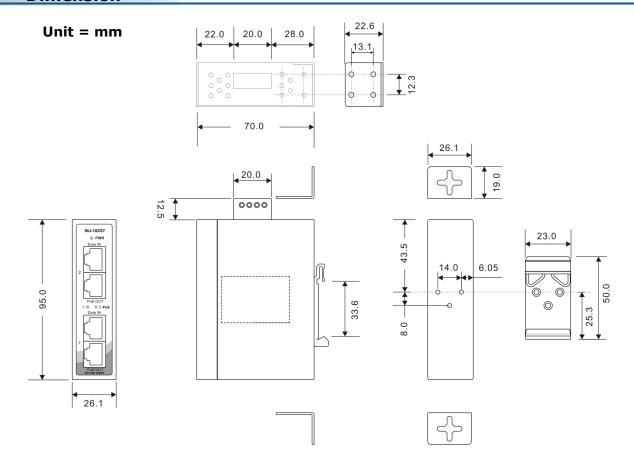
Note: The equipment being powered must be fully IEEE 802.3at/802.3af compliant in order for the power supply to be able to sense the PoE devices signature and apply power. Power is supplied on Ethernet pins 1/2 (V+) and 3/6 (V-).

# Connection



Connections of Injector

# Dimension



## **Connector and Pin Definition**

#### 1000 Base-T

	RJ-45 I	nput (Data Only)	RJ-45 Output (Data and Power)	
Pin	Symbol	Description	Symbol	Description
1	BI_DA+	Data BI_DA+	BI_DA+	Data BI_DA+ and
			(Vdc+)	Feeding Power(+)
2	BI_DA-	Data BI_DA-	BI_DA-	Data BI_DA- and
			(Vdc+)	Feeding Power(+)
3	BI_DB+	Data BI_DB+	BI_DB+	Data BI_DB+ and
			(Vdc-)	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-	Data BI_DB- and
			(Vdc-)	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

	RJ-45 In	put (Data Only)	RJ-45 Outpu	ut (Data and Power)
Pin	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.	2	
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	
Power Indicator	Green On: Power is on and functioning Normally.	
	2 x LED	
PoE Indicators	Blue On: PoE Device Link	
	Blue Blinking: Detecting PoE Device	
Protection	Blue Off: None PoE Device Detected	
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 Name	Description
Model	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