

INJ-102GT-24V

Industrial 2-port Gigabit High Power PoE Injector, 24V~50V Input Support

Features

- Supports 2x10/100/1000Base-T(X) for power and data Output
- Fully compliant with IEEE802.3at/802.3af standard
- Auto protection for Over Voltage Power Input and over current output
- Supports Power Output up to 30Watts per port.
- Supports Power Input range from 24Vdc to 50Vdc
- High reliability and rigid IP-30 housing
- DIN-Rail and Wall Mount Design















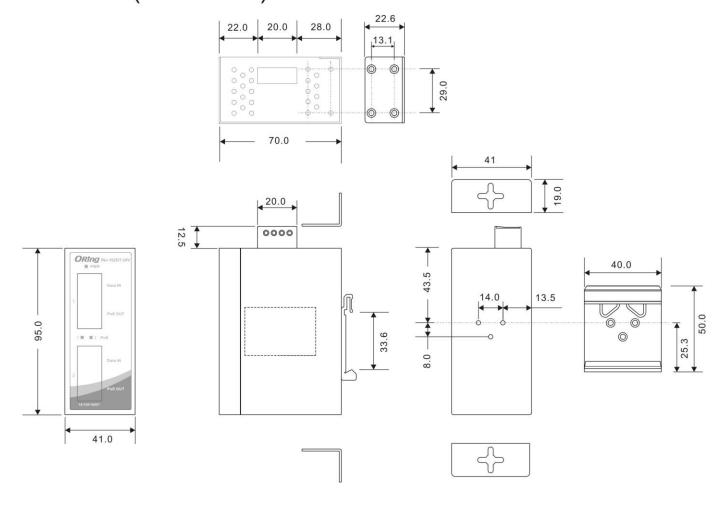
Introduction

The INJ-102GT-24V 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 802.3af/802.3af compliant device can be powered with the INJ-102GT-24V 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 24~50V insertion, the installer doesn't need to worry about voltage drops caused by cable length. The INJ-102GT-24V 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-).

Dimension

Dimension (Unit =mm)



Connector and Pin Definition

1000 Base-T

	RJ-45 I	nput (Data Only)	RJ-45 Output (Data and Power)	
Pin	Symbol	Description	Symbol	Description
-	BI_DA+	Data BI_DA+	BI_DA+	Data BI_DA+ and
1			(Vdc+)	Feeding Power(+)
2	BI_DA-	Data BI_DA-	BI_DA-	Data BI_DA- and
2			(Vdc+)	Feeding Power(+)
3	BI_DB+	Data BI_DB+	BI_DB+	Data BI_DB+ and
3			(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
6			(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	2 Rx- Data Receive	Data Possivo	Rx- (Vdc+)	Data Receive and
		Data Receive		Feeding power(+)
2	3 Tx+ Data Transmit	Data Tuanamit	Tv. (()/da)	Data Transmit and
3		Tx+ (Vdc-)	Feeding power(-)	
4	NC	Not Connected	NC	Not Connected
5	NC	Not Connected	NC	Not Connected
	Tx-	Data Transmit	Tx- (Vdc-)	Data Transmit and
6				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-24V		
Physical Ports			
RJ-45 Ethernet Port Input	2		
RJ-45 Ethernet Port with P.S.E. Output	2		
Operating Voltage			
Input Voltage	24 ~ 50 Vdc		
Output Power	50V / 600mA, 30 Watts max. Per port		
LED Indicators			
Power Indicator	PWR / Ready: $1 \times \text{LED}$ Green On: Power is on and functioning Normally.		
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		
Physical Characteristic			
Enclosure	IP-30		
Dimension (W x D x H)	41(W)x70(D)x95(H) mm (1.61 x 2.75 x 3.74 inch.)		
Weight (g)	370g		
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-24V

Available	Model Name	Description
Model	INJ-102GT-24V	Industrial 2-port Gigabit High Power PoE Injector, 24V~50V Input Support

Packing List

- INJ-102GT-24V 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