



Quick Installation Guide

INJ-102GT-24V

Industrial Gigabit Injector

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 802.3at/802.3af compliant device can be powered with the INJ-102GT-24V PoE Injector. INJ-102GT-24V can accept 24~50VDC power input and convert to 50VDC to meet the power input requirement of PoE standard. 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 connected on Ethernet pins 1/2(V+) and



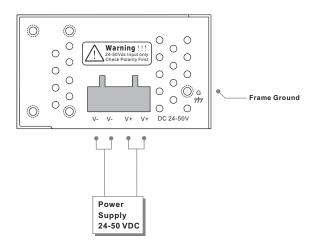




Features

- > 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 at 50VDC input
- > Supports Power Input range from 24VDC to 50VDC
- > High reliability and rigid IP-30 housing
- > DIN-Rail and wall-mount enabled

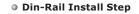
Power Connection Guide



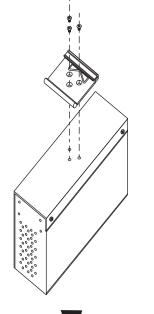
Specifications

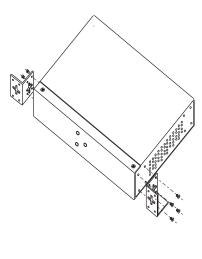
ORing PoE Injector Model	INJ-102GT-24V		
Physical Ports			
10/100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX	2		
10/100/1000Base-T(X) P.S.E. Port in RJ45 Auto MDI/MDIX	2		
Operating Voltage			
Input Voltage	24 ~ 50 VDC on 4-pin terminal block		
Output Power	50V / 600mA, 30 Watts max. Per port		
LED indicators			
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)	41(W) x 70(D) x 95(H)mm (1.61x 2.76 x 3.74inch.)		
Weight (g)	370 g		
Environmental			
Storage Temperature	-40 to 80°C (-40 to 176°F)		
Operating Temperature	-40 to 70°C (-40 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		

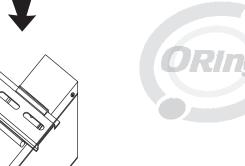
Installation



Wall-mounted Install Step









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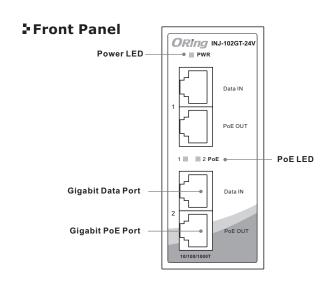




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Connector and Pin Definition

1000Base-T

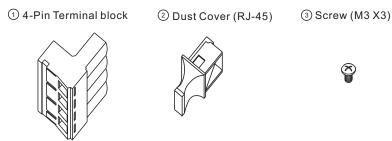
	RJ-45 Input (Data Only)		RJ-45 Output (Data and Power)	
	Symbol	Description	Symbol	Description
1	BI_DA+	Data BI_DA+	BI_DA+ (Vdc+)	Data BI_DA+ and Feeding power(+)
2	BI_DA-	Data BI_DA-	BI_DA- (Vdc+)	Data BI_DA- and Feeding power(+)
3	BI_DB+	Data BI_DB+	BI_DB+ (Vdc-)	Data BI_DB+ and Feeding power(-)
4	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-T(X)

	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

Accessory

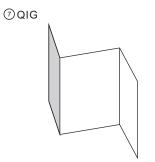


Wall-mounted kit



Power Cable with power jack





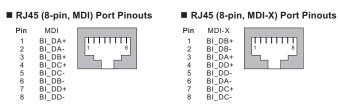
(5) 40mm DIN-Rail kit

Packing list

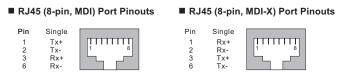
Model name	Model Description	Accessory
INJ-102GT-24V	Industrial 2-port Gigabit High Power PoE Injector, 24V~50V Input Support	①X1, ②X4, ③X8, ④X2, ⑤X1, ⑥X1, ⑦X1

Communication Connections

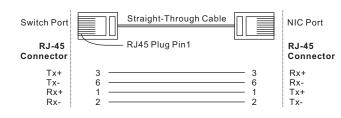
• 1000Base-T Ethernet Port Connection



● 10/100Base-T(X) Ethernet Port Connection



■ RJ45 (8-pin) to RJ45 (8-Pin) Straight-Through Cable Wiring



■ RJ45 (8-pin) to RJ45 (8-Pin) Cross-Over Cable Wiring

