

INJ-102GT



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Industrial 2-port Gigabit High Power PoE injector

Features

- Support 2 ports 10/100/1000Base-T(X) P.S.E ports
- Fully compliant with IEEE 802.3af/at standard
- Auto protection for over voltage power input and over current output
- Provide up to 30W per port PoE output
- Power input from 50 to 57VDC
- Rigid IP-30 housing design
- DIN-rail and wall mounting enable



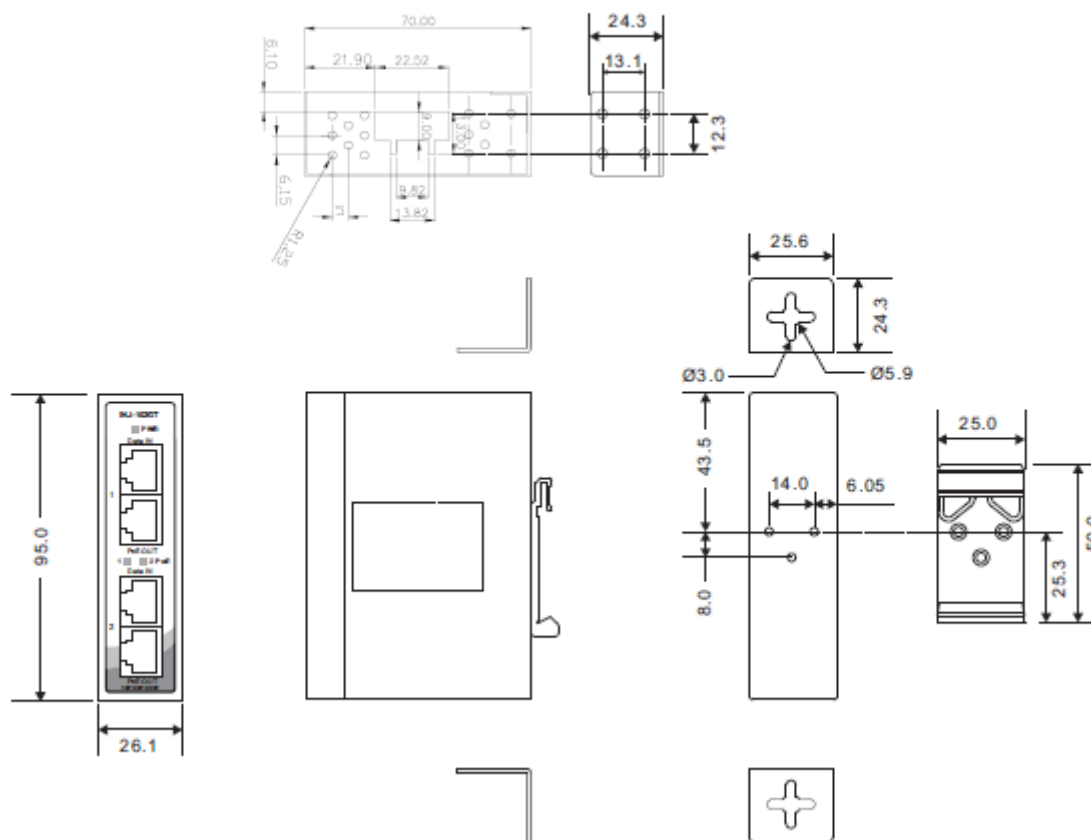
Introduction

The INJ-102GT PoE injector is an advanced IEEE 802.3af/at compliant device with intelligent detection that provided 2 port 10/100/1000Base-T(X) PoE outputs. The device does not turn on power until it detects a valid PoE signature from the PoE device 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/at 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 standard. 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 802.3af/at PoE standard.

Note: The equipment being powered must be fully IEEE 802.3af/at 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-).

Dimensions

Unit =mm (Tolerance ±0.5mm)



Connector and PIN Definition

10/100Base-TX

RJ-45 Input (Data Only)			RJ-45 Output (Data and PoE 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: pin3 and 6 (Vdc-) should not be shorted to ground

1000Base-T

RJ-45 Input (Data Only)			RJ-45 Output (Data and PoE Power)	
PIN	Symbol	Description	Symbol	Description
# 1	BI_DA+	Data BI_DA+	BI_DA+ (Vdc+)	Data BI_DA+ and Feeding power (+)
# 2	BI_DA-	Date BI_DA-	BI_DA- (Vdc+)	Date 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-

Specifications

INJ-102GT

Physical Ports

RJ-45 10/100/1000Base-T(X) Port	2
RJ-45 10/100/1000Base-T(X) Port with P.S.E output	2

LED indicators

Power Indicator (PWR)	Green: Power LED x 1
PoE Indicator	2 x Blue for PoE enable Indicator, Blink for PoE device detect, OFF for don't detect PoE device

Power

Redundant Input power	Dual 50~57Vdc on 4-pin terminal block
Power consumption (Typ.)	<1W
PoE Power budget	50-57Vdc: 30Watts per port, total PoE 60 watts
Overload current protection	Present
Reverse Polarity Protection	Present

Physical Characteristic

Enclosure	IP-30 Metal
Dimension (W x D x H)	26.1 (W) x 70 (D) x 95 (H)mm 1.03 (W) x 2.76 (D) x 3.74 (H) inch
Weight (g)	250 g
Hardware Version	V2.0

Environmental

Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Operating Humidity	5% to 95% Non-condensing

Regulatory approvals	
EMC	CE EMC (EN 55024, EN 55032), FCC Part 15 B
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15 B class A
EMS	EN 55024 (IEC/EN 61000-4-2 (ESD: Contact 4KV, Air 8KV), IEC/EN 61000-4-3 (RS: 3V), IEC/EN 61000-4-4 (EFT Power 0.5KV, Signal 0.5KV), IEC/EN 61000-4-5 (Surge: Power 0.5KV, Signal 1KV), IEC/EN 61000-4-6 (CS: 3V), IEC/EN 61000-4-8 (PFMF), IEC/EN 61000-4-11 (DIP))
Shock	IEC60068-2-27
Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN 60950-1 (LVD)
MTBF	4,150,041hrs
Warranty	5 years

Ordering Information

INJ-10A BB

Code Definition	10/100/1000Base-T(X) P.S.E Port Number	Additional Port Type
Option	- 2: 2 ports	- GT: Gigabit copper

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 2
- Quick Installation Guide x 1

Optional Accessories

- DR/SDR/DRP Series DIN-Rail power supply