



INJ-102GT++ Series

Industrial 2-port Gigabit High Power Plus PoE++ Injector

Features

- PoE+ Injector for 1x10/100/1000 Base-T(X)
- Fully compliant with IEEE802.3at/802.3af standard
- Auto protection for Over Voltage Power Input and over current output
- Supports totally **Power Output up to 90/180Watts** for all ports usage.
- High reliability and rigid IP-30 housing
- DIN-Rail and Wall Mount Design

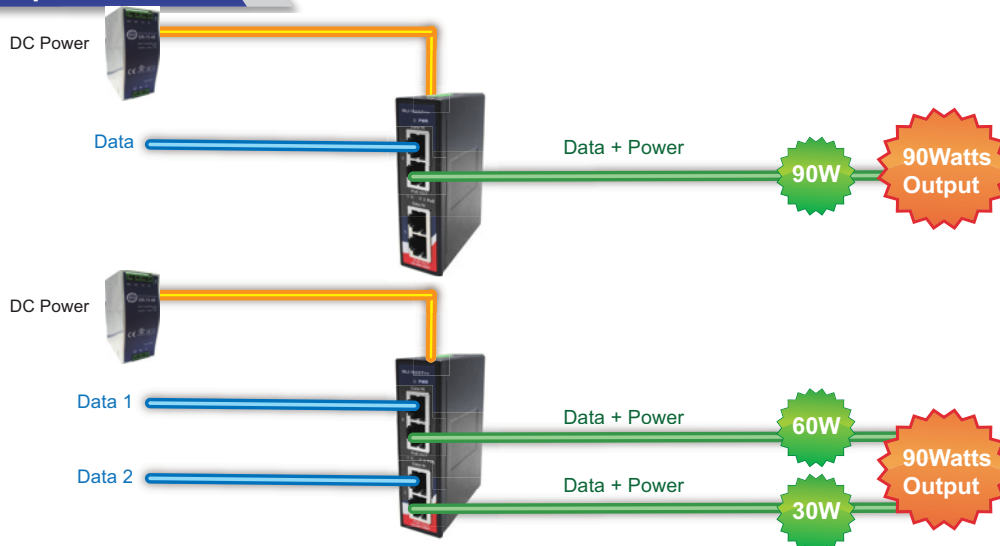


Introduction

The INJ-102GT++ PoE Injector series is not only an IEEE802.3at compliant device but also an advanced high power PoE injector. It is 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. Therefore, 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. 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.

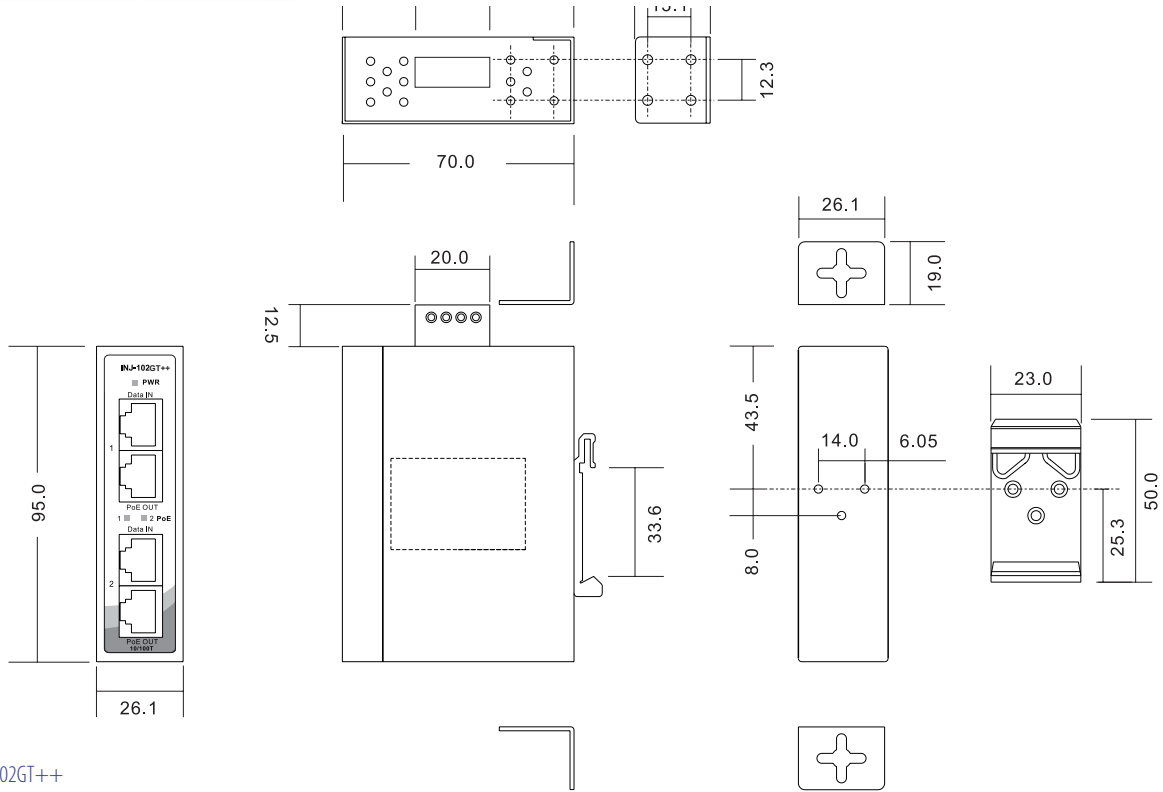
Note: The equipment being powered must be fully IEEE 802.3at/802.3af compliant in order for the power supply to be able to sense the PoE devices signature and apply power. Power is supplied on Ethernet pins 1/2 (V+)

Practical Operation

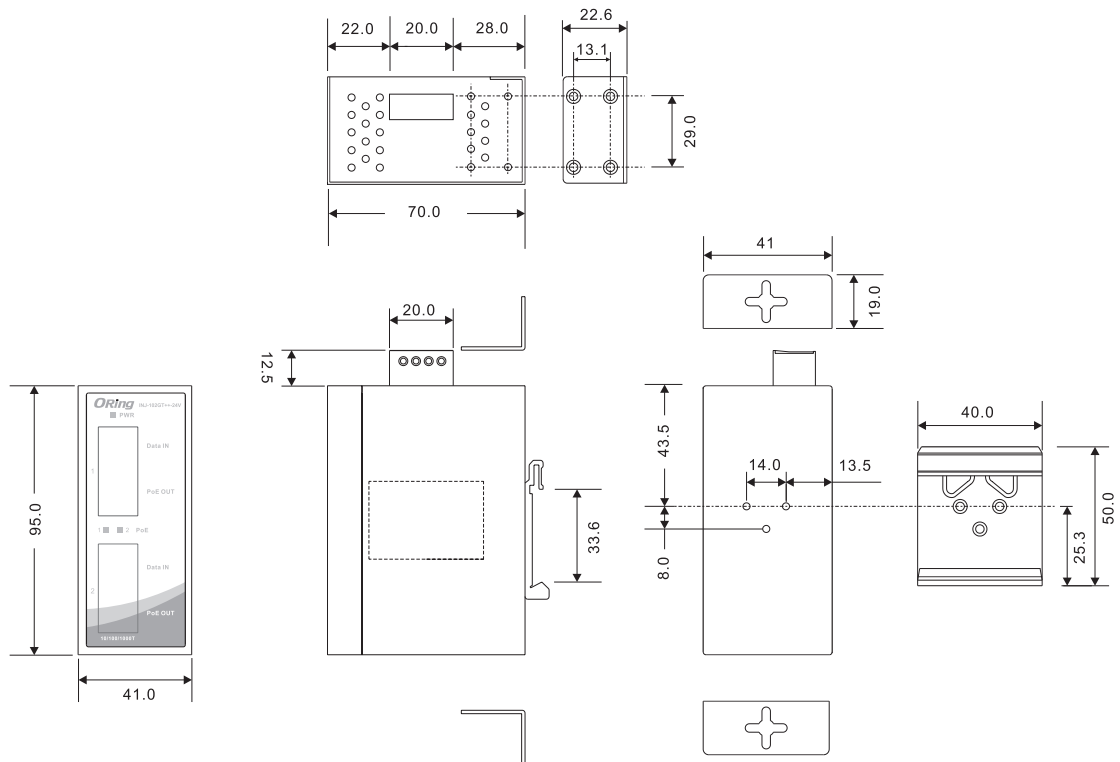


Dimensions

Industrial Ethernet Switch



INJ-102GT++



INJ-102GT++-24V

Connectors and Pin Definitions

1000 Base-T

Pin No.	RJ-45 Output (Data and Power)		RJ-45 Input (Data Only)	
	Symbol	Description	Symbol	Description
1	BI_DA+	Data BI_DA+	BI_DA+(Vdc1+)	Data BI_DA+ and Feeding Power(+)
2	BI_DA-	Data BI_DA-	BI_DA-(Vdc1+)	Data BI_DA+ and Feeding Power(+)
3	BI_DB+	Data BI_DB+	BI_DB+(Vdc1-)	Data BI_DB+ and Feeding Power(-)
4	BI_DC+	Data BI_DC+	BI_DC+(Vdc2+)	Data BI_DC+Feeding Power(+)
5	BI_DC-	Data BI_DC	BI_DC-(Vdc2+)	Data BI_DCFeeding Power(+)
6	BI_DB-	Data BI_DB	BI_DB-(Vdc1-)	Data BI_DB- and Feeding Power(-)
7	BI_DD+	Data BI_DD+	BI_DD+(Vdc2-)	Data BI_DD+ Feeding Power(-)
8	BI_DD-	Data BI_DDBI	BI_DD-(Vdc2-)	Data BI_DDFeeding Power(-)VU,4

10/100 Base-T

Pin No.	RJ-45 Output (Data and Power)		RJ-45 Input (Data Only)	
	Symbol	Description	Symbol	Description
1	Rx+	Data Receive	Rx+ (Vdc1+)	Data Receive
2	Rx-	Data Receive	Rx-(Vdc1+)	Data Receive
3	Tx+	Data Transmit	Tx+ (Vdc1-)	Data Transmit
4	NC	Not Connected	NC (Vdc2+)	Not Connected
5	NC	Not Connected	NC (Vdc2+)	Not Connected
6	Tx-	Data Transmit	Tx-(Vdc1-)	Data Transmit
7	NC	Not Connected	NC (Vdc2-)	Not Connected
8	NC	Not Connected	NC(Vdc2-)	Not Connected

Specifications

ORing Injector Model	INJ-102GT++	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	50 ~ 57Vdc on 4-pin terminal block	24 ~ 50Vdc on 4-pin terminal block
Output Power	57V / 1579mA, 180 Watts max ^[Note2] (Total of 2 ports)	50V / 1800mA, 90 Watts max ^[Note2] (Total of 2 ports)
LED Indicator		
Power Indicator	PWR: 1 x LED Green On: Power is on and functioning Normally.	
PoE Indicators	2 x LED Blue On: PoE Device Link Blue Off: None PoE Device Detected	
Protection		
Short Circuit Protection	Present	
Over Load Protection	Present	
Physical Characteristics		
Enclosure	IP-30	
Dimension (W x D x H)	26.1(W)x70(D)x95(H)mm (1.03 x 2.76 x 3.74 inch)	41(W)x70(D)x95(H) mm (1.61 x 2.75 x 3.74 inch.)
Weight (g)	369g	300g
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	5 years

Note 2: LTPoE++™ PSE technology is applied on this product. Only when an LTPoE++™ Powered Device

(PD) is attached can the PSE port deliver up to 180W of output power.

Ordering Information

INJ-102GT++

	Model Name	Description
Available Model	INJ-102GT++	Industrial 2-port Gigabit High Power PoE++ Injector
	INJ-102GT++-24V	Industrial 2-port Gigabit High Power PoE++ Injector, 24~50VDC power Input
Packing List <ul style="list-style-type: none"> • INJ-102GT++ • DIN-Rail Kit • Wall-mount Kit 		Optional Accessories (Can be purchased separately) <ul style="list-style-type: none"> • DR-75-48 : 75 Watts DIN-Rail power supply • DR-120-48 : 120 Watts DIN-Rail power supply