Industrial Ethernet Switch

Industrial Media Converter

Industrial Device Serve

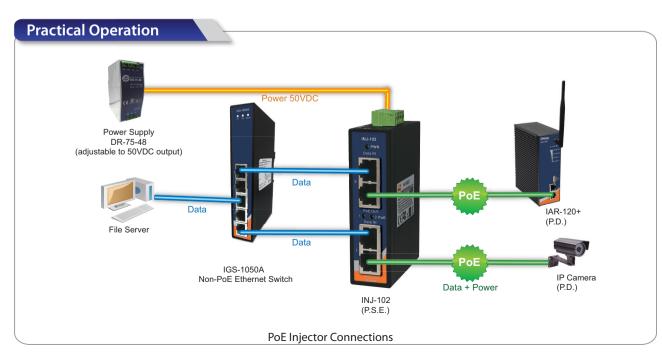
Industrial Wireless Access Point

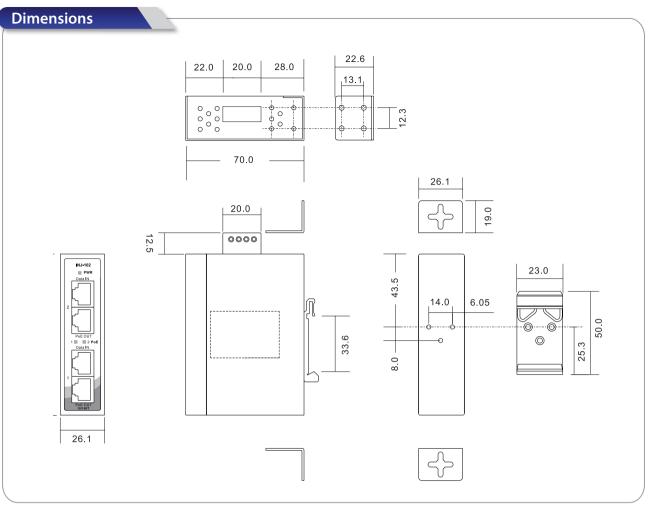
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Introduction

The INJ-102GT PoE Injector is an advanced IEEE802.3at compliant device with Intelligent Detection, providing 2-ports of 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 mechanism protects 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 Ethernet networks the maximum allowable CAT5 cable length is about 100 meters – due to the limitation of the Ethernet standards. Because of its 50V insertion, the installer does not 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-).





(Unit=mm)

Industrial Ethernet Switch

Connectors and Pin Definitions

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

Specifications		Industrial Ethernet Switch
ORing Injector Model	INJ-102	net S
Physical Ports		iwito
10/100/1000Base-T(X) in RJ-45 Ethernet Port Input	2	
10/100/1000Base-T(X) in RJ-45 Ethernet Port with P.S.E. Output	2	
Operating Voltage		
Input Voltage	50 VDC on 4-pin terminal block	Media Converte
Output Power	50V / 600mA, 30 Watts max. per port	ia Co
LED Indicator		onve
Power Indicator	PWR / Ready: 1 x LED Green On: Power is on and functioning Normally.	rter
PoE Indicators	2 x LED Blue On: PoE Device Link Blue Blinking: Detecting PoE Device Blue Off : None PoE Device Detected	
Protection		De
Short Circuit Protection	Present	Device Se
Over Load Protection	Present	Device Serve
High Voltage Protection	Present	ver
Physical Characteristics		
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	Access Point
Environmental		Access Point
Storage Temperature	-40 to 80°C (-40 to 176°F)	oint
Operating Temperature	-20 to 70°C (-4 to 158°F)	
Operating Humidity	5% to 90% Non-condensing	S.
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	VPN Router
Shock	IEC60068-2-27	Rout
Free Fall	IEC60068-2-32	ter
Vibration	IEC60068-2-6	Iua
Safety	EN60950-1	
Warranty	2 years	

Ordering Information

INJ-102

Available	Model Name	Description
Model	INJ-102	Industrial 2-port Gigabit High Power PoE Injector
Packing List • INJ-102 • DIN-Rail Kit • Wall-mount Kit • Quick Installation Guide		Optional Accessories (Can be purchased separately) • DR-75-48 : 75 Watts DIN-Rail power supply (adjustable to 50 VDC output) • DR-120-48 : 120 Watts DIN-Rail power supply (adjustable to 50 VDC output) • SDR-240-48, 240W DIN-Rail power supply • SDR-480-48, 480W DIN-Rail power supply