

Industrial Gigabit PoE++ Injector

INJ-IX01-PB & INJ-IX01-2PB

◀ **1x port Industrial 10M/100M/1G/2.5G/5G/10G IEEE802.3af/at/bt PoE type 4 Injector (90W/port)**

▶ **2x port Industrial 10M/100M/1G/2.5G/5G/10G IEEE802.3af/at/bt PoE type 4 Injector (180W, 90W/port)**

- ◆ PoE Power Budget Maximum 90W/Port
- ◆ Compliant with 10/100/1G/2.5G/5G/10GBase-T(X) & IEEE802.3af/at/bt Type 4 PoE
- ◆ EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified



These industrial grade PoE injectors, the INJ-IX01-PB and INJ-IX01-2PB feature 1/2x port(s) PoE PSE over 10M/100M/1G/2.5G/5G/10G Ethernet. PoE describes a system to pass electrical power safely, along with data, on Ethernet cabling. These injectors support the IEEE802.3bt PoE standard, provides up to 90W of DC power to each PD device, while still maintaining backward compatibility with 802.3af/at PoE standards. Housed in a rugged DIN rail or wall mountable enclosure, this product is designed for harsh environments, such as industrial networking, security, intelligent transportation systems (ITS) and is also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications. Standard operating temperature range models (-10 to 60°C) and wide operating temperature range models (-40 to 75°C) fulfill the special needs of industrial automation applications.

Features

- Provides 1x port IEEE 802.3at/af/bt type 4 PoE Injector (INJ-IX01-PB)
- Provides 2x port IEEE 802.3at/af/bt type 4 PoE Injector (INJ-IX01-2PB)
- Wide operating temperature -40 ~ 75°C
- IP30 rugged metal housing and fanless

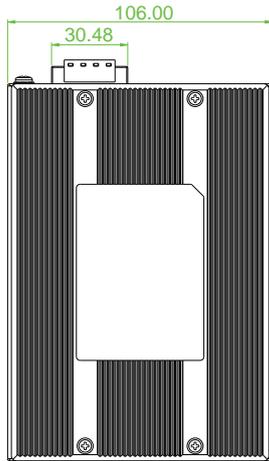
Specifications

Standard	IEEE 802.3	10Base-T Ethernet
	IEEE 802.3u	100Base-TX Fast Ethernet
	IEEE 802.3ab	1000Base-T Gigabit Ethernet
	IEEE 802.3bz	2.5GBase-T, 5GBase-T
	IEEE 802.3an	10GBase-T
PoE Standard	IEEE803.3bt, IEEE 802.3at, IEEE802,3af	
PoE & RJ-45 Pin Assignment	Provides 2/4 pairs PoE Positive (V+): RJ-45 pin 1, 2, 4, 5 Negative (V-): RJ-45 pin 3, 6, 7, 8 Ethernet Data (1, 2, 3, 6, 4, 5, 7, 8)	
Network Connector	Per port provides 1x RJ-45 for Ethernet data, and 1x RJ-45 for Ethernet data with PoE output power	
Network Cable	Supports 100 meter for below cable: Above Cat.5e UTP/STP cable for 10/100/1G/2.5GBase-T, Above Cat.6 UTP/STP cable for 5GBase-T, Above Cat.6A UTP/STP cable for 10GBase-T	

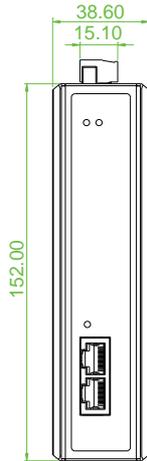
LED	System: PWR1, PWR2 (Green) for Power status PoE (Green) per port: ON : PoE on / Blinking : PoE off																		
Reverse Polarity Protection	Supported for power input																		
Overload Current Protection	Supported																		
Power Supply	Redundant Dual 48V (44~57VDC) Input Power (Removable Terminal Block) Below recommended is for different PoE application: 54~57VDC for 90W (4 Pairs) PoE application, 52~57VDC for 60W (4 Pairs) PoE application, 52~57VDC for 30W (2 Pairs) PoE application, 44~57VDC for 15.4W (2 Pairs) PoE application.																		
PoE Power Budget	90W/port ,total 90W (INJ-IX01-PB) 90W/port ,total 180W (INJ-IX01-2PB)																		
Power Consumption	<table border="1"> <thead> <tr> <th>Model</th> <th>Input Voltage</th> <th>Total Power Consumption</th> <th>Device Power Consumption</th> <th>PoE Power Budget</th> </tr> </thead> <tbody> <tr> <td>INJ-IX01-PB</td> <td>54 VDC</td> <td>94.5W</td> <td>1.5W</td> <td>90W</td> </tr> <tr> <td>INJ-IX01-2PB</td> <td>54 VDC</td> <td>188W</td> <td>1.6W</td> <td>180W</td> </tr> </tbody> </table>	Model	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Power Budget	INJ-IX01-PB	54 VDC	94.5W	1.5W	90W	INJ-IX01-2PB	54 VDC	188W	1.6W	180W			
Model	Input Voltage	Total Power Consumption	Device Power Consumption	PoE Power Budget															
INJ-IX01-PB	54 VDC	94.5W	1.5W	90W															
INJ-IX01-2PB	54 VDC	188W	1.6W	180W															
Removable Terminal Block	Provides 4 Pin for redundant power 1 and Power 2 input connection																		
Operating Temperature	-10 ~ 60°C (INJ-IX01-PB, INJ-IX01-2PB) -40 ~ 75°C (INJ-IX01-PBE, INJ-IX01-2PBE)																		
Operating Humidity	5% to 95% (Non-condensing)																		
Storage Temperature	-40 ~ 85°C																		
Housing	Rugged Metal, IP30 Protection and fanless																		
Dimensions	106 x 38.6 x 152mm (D x W x H)																		
Weight	555g (INJ-IX01-PB(E)) 565g (INJ-IX01-2PB(E))																		
Installation Mounting	DIN Rail mounting and Wall Mounting (Optional)																		
MTBF	3,150,660 Hours (INJ-IX01-PB) 2,165,510 Hours (INJ-IX01-2PB) (MIL-HDBK-217)																		
Certification																			
EMC	CE (EN55032, EN55035)																		
EMI	FCC Part 15 Subpart B Class A, CE																		
Railway Traffic	EN50121-4																		
Immunity for Heavy Industrial Environment	EN61000-6-2																		
Emission for Heavy Industrial Environment	EN61000-6-4																		
EMS (Electromagnetic Susceptibility) Protection Level	EN61000-4-2 (ESD) Level 3, Criteria B EN61000-4-3 (RS) Level 3, Criteria A EN61000-4-4 (EFT) Level 3, Criteria A EN 61000-4-5 (Surge) Level 3, Criteria B EN 61000-4-6 (CS) Level 3, Criteria A EN61000-4-8 (PFMF) Field strength 300A/m Criteria A																		
Surge Protection	4KV for PoE and UTP																		
Shock	IEC 60068-2-27																		
Freefall	IEC 60068-2-31																		
Vibration	IEC 60068-2-6																		

Dimensions

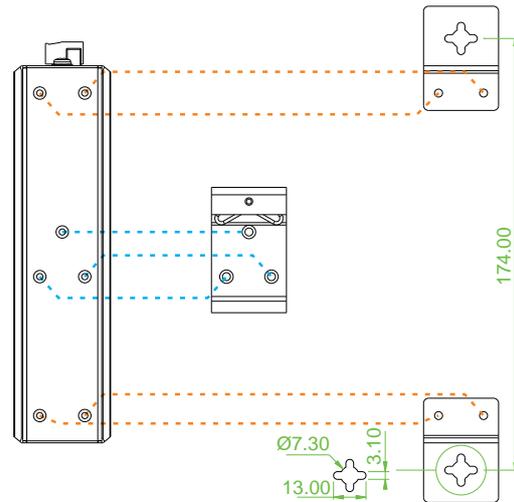
► INJ-IX01-PB



Side View



Front View

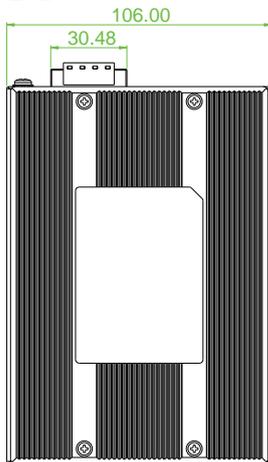


Rear View

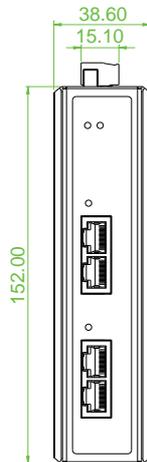
DIN-Rail Kit View

Wall-Mount Kit View
(Optional Accessory)

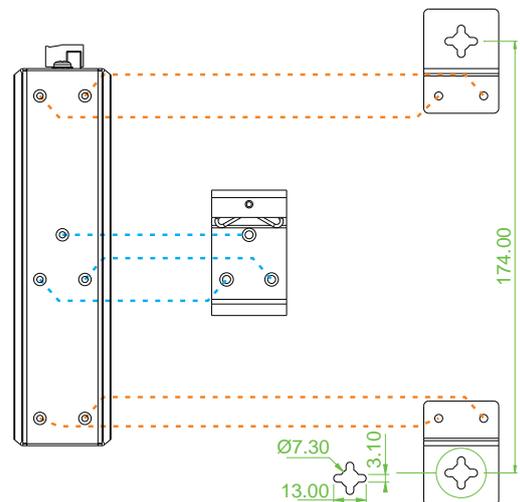
► INJ-IX01-2PB



Side View



Front View



Rear View

DIN-Rail Kit View

Wall-Mount Kit View
(Optional Accessory)

Ordering Information

Model Name	Ethernet port	Ethernet with PoE port		Power Input	Certification			Operating Temperature
	10/100M/1G/2.5G/5G/10G Base-T(X)	IEEE802.3 af/at/bt (PSE)	Power Budget	Redundant	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	
INJ-IX01-PB	1	1	90W	48VDC	V	V	V	-10~60°C
INJ-IX01-PBE	1	1	90W	48VDC	V	V	V	-40~75°C
INJ-IX01-2PB	2	2	180W (90W/port)	48VDC	V	V	V	-10~60°C
INJ-IX01-2PBE	2	2	180W (90W/port)	48VDC	V	V	V	-40~75°C

Optional Accessories

■ Wall Mount Kit

IND-WMK05 Wall Mount kit for Industrial product (2pcs in 1 set, 42x30mm)

■ Industrial Power Supply

NDR-240-48 Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 240W, -20 ~ 70°C (For INJ-IX01-2PB)

NDR-120-48 Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 120W, -20 ~ 70°C (For INJ-IX01-PB)