INJ-IG02-PH

Industrial Gigabit Passive PoE Injector (60W)

- Supports Passive PoE, Power output 15.4W, 30W, 60W
- Supports 2 pairs PoE Mode A/B or 4 pairs
- Passive PoE output voltage 24V or 48VDC
- Compliant with 10/100/1000Base-T(X)
- EN62368-1, EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC certified

The industrial grade Gigabit Passive PoE injector INJ-IG02-PH securely provides power and data transmission through Ethernet cables, it operates on 24/48VDC power input, supports alternative A and B mode, and provides 30Watts output for passive-type PoE devices, and in addition, it can provide up to 60W of power through a special design using 4-pairs of Cat5e cables. It does not run the standard PoE IEEE802.3af/at protocol, injects power directly and is always on when powered. It is designed for harsh environments and can be used in industrial networks, traffic monitoring, safety automation applications, urban security, and smart transportation systems. It is also suitable for many military or utility market applications where environmental conditions exceed commercial product specifications.

Features

- 1 port Passive PoE Injector
- 24 or 48VDC Power input
- Maximum PoE budget 30W (2-pair), 60W (4-pair)
- Wide operating temperature -40 ~ 75° C (INJ-IG02-PHE)
- IP30 rugged metal housing and fanless

Specifications

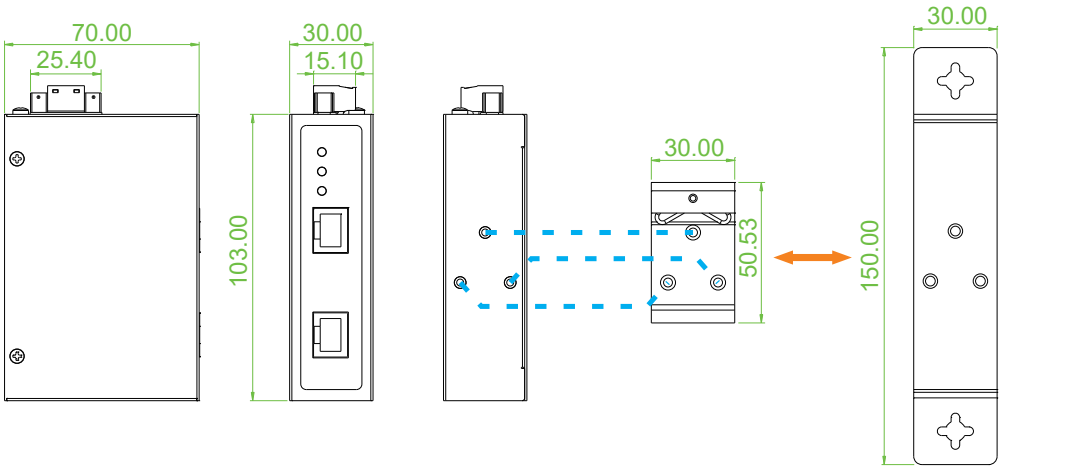
IEEE Standard	IEEE 802.3	10Base-T Ethernet
	IEEE 802.3u	100Base-TX Fast Ethernet
	IEEE 802.3ab	1000Base-T Gigabit Ethernet
PoE RJ-45 Pin Assignment	Positive (V+): RJ-45 pin 1, 2. Negative (V-): RJ-45 pin 3, 6.	
	Positive (V+): RJ-45 pin 4,5 Negative (V-): RJ-45 pin 7,8 Data (1, 2, 3, 6, 4, 5, 7, 8)	
Network Connector	1 RJ-45 for 10/100/1000Base-T Data, and 1 RJ-45 for 10/100/1000Base-T Data with PoE Output power	
Network Cable	UTP/STP above Cat. 5e cable	
	EIA/TIA-568 100-ohm (100m)	
LED	System: Power (Green), Alt A/PoE, Alt B/PoE (Green)	
Reserve Polarity Protection	Present	
Overload Current Protection	Present	
Power Supply	24 or 48VDC Input power (Removable Terminal Block)	
PoE output voltage	48VDC (for 48VDC input power), 24VDC (for 24VDC input power)	
PoE Power Budget	Maximum 60W for 4-pair PoE (48VDC input power) Maximum 30W for 2-pair PoE (48VDC input power) Maximum 30W for 4-pair PoE (24VDC input power) Maximum 15.4W for 2-pair PoE (24VDC input power)	
Power Consumption	<2W (not include PoE output)	
Removable Terminal Block	Provide 2 Pin for power input connectorn	
Operating Temperature	-10 ~ 60°C (INJ-IG02-PH) -40 ~ 75°C (INJ-IG02-PHE)	
Operating Humidity	5% to 95% (Non-condensing)	
Storage Temperature	-40 ~ 85°C	

Housing	Rugged Metal, IP30 Protection
Dimensions	70 x 30 x 103 mm (D x W x H)
Weight	210g
Installation Mounting	DIN Rail mounting and, Wall Mounting (Optional)

Certification

EMC	CE (EN55024, EN55032)
EMI (Electromagnetic Interference)	FCC Part 15 Subpart B Class A
	CE EN55022 Class A
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 (Burst) Level 3, Criteria A
	EN61000-4-5 (Surge) Level 3, Criteria B
	EN61000-4-6 (CS) Level 3, Criteria A
	EN61000-4-8 (PFMF, Magnetic Field) Field Strength: 300A/m, Criteria A
Safety	EN62368-1
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF	463,016 Hours (MIL-HDBK-217)
Warranty	5 years

Dimensions



Ordering Information

Model Name	Ethernet	PoE Port		Power Input	Certification				Operating Temperature
	10/100/1000Base-T	IEEE 802.3at	Power Budget	Single Power	EN62368-1	EN50121-4	EN61000-6-2 EN61000-6-4	CE, FCC	
INJ-IG02-PH	1	1	15/30/60W	24/48VDC	V	V	V	V	-10~60°C
INJ-IG02-PHE	1	1	15/30/60W	24/48VDC	V	V	V	V	-40~75°C

Optional Accessories

Wall Mount Kit

IND-WMK03	Wall Mount kit for Industrial product (Compact, 150 x 30mm)

Industrial Power Supply

MDR-40-48	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 48VDC, 40W, -20 ~ +70°C (For 48VDC /30W output application)
NDR-120-48	Industrial Power, Input 90 ~ 264VAC/127 ~ 370VDC, Output 48VDC, 120W, -20 ~ +70°C (For 48VDC /60W@4 pair output application)