

# 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)
- Safety EN62368-1, Railway EN50121-4, Heavy industrial EN61000-6-2, EN61000-6-4, CE, FCC certified



INJ-IG02-PH is an industrial grade, Gigabit, Passive, PoE injector, that can provide up to 60Watts power out through the 4 pairs of category 5e/6 cables. The injector operates with 24/48VDC power input, supports alternative A mode and alternative B mode with 30Watts output for passive PoE devices. Passive POE devices are usually proprietary and this injector provides an "always On" power over Ethernet. This injector is NOT compatible with IEEE802.3af/at standard PoE devices.

INJ-IG02-PH is housed in a rugged DIN rail or wall mountable IP30 metal enclosure and is designed for harsh environments, such as industrial automation, city surveillance & security, intelligent transportation systems (ITS) and also utility market applications.

Standard operating temperature range models (-10 to 60°C) and wide operating temperature range models (-40 to 75°C) fulfill the special needs of critical environment.

## 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

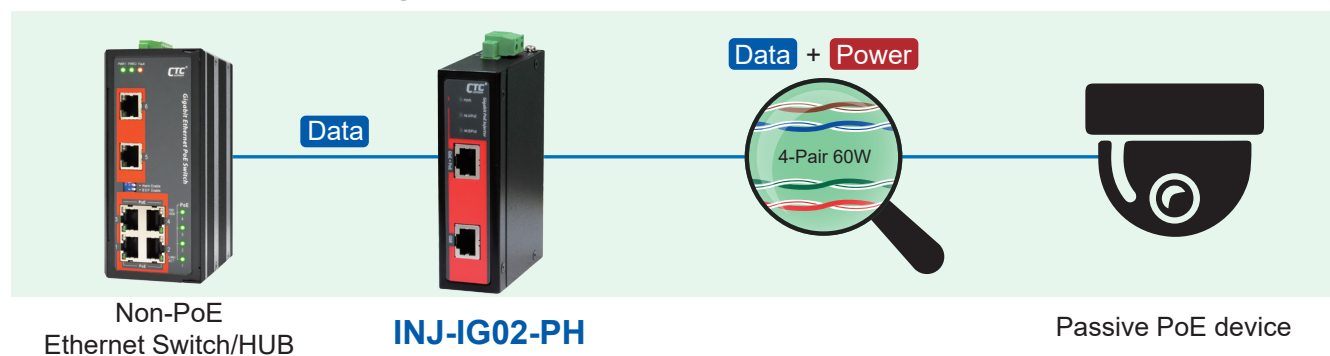
## Specifications

<b>IEEE Standard</b>	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet
<b>PoE RJ-45 Pin Assignment</b>	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)
<b>Network Connector</b>	1 RJ-45 for 10/100/1000Base-T Data, and 1 RJ-45 for 10/100/1000Base-T Data with PoE Output power
<b>Network Cable</b>	UTP/STP above Cat. 5e cable EIA/TIA-568 100-ohm (100m)
<b>LED</b>	Per unit: Power (Green), Alt A/PoE, Alt B PoE (Green)
<b>Reserve Polarity Protection</b>	Present
<b>Overload Current Protection</b>	Present
<b>Power Supply</b>	24 or 48VDC Input power (Removable Terminal Block)
<b>PoE output voltage</b>	48VDC (for 48VDC input power) 24VDC (for 24VDC input power)
<b>PoE Power Budget</b>	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)
<b>Power Consumption</b>	<2W (not include PoE output)
<b>Removable Terminal Block</b>	Provide 2 Pin for power input connectorn
<b>Operating Temperature</b>	-10 ~ 60°C (INJ-IG02-PH) -40 ~ 75°C (INJ-IG02-PHE)

<b>Operating Humidity</b>	5% to 95% (Non-condensing)
<b>Storage Temperature</b>	-40 ~ 85°C
<b>Housing</b>	Rugged Metal, IP30 Protection
<b>Dimensions</b>	70 x 30 x 103 mm (D x W x H)
<b>Weight</b>	210g
<b>Installation Mounting</b>	DIN Rail mounting and, Wall Mounting (Optional)
<b>EMC</b>	CE (EN55024, EN55032)
<b>EMI (Electromagnetic Interference)</b>	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
<b>EMS (Electromagnetic Susceptibility) Protection Level</b>	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
<b>Safety</b>	EN62368-1
<b>Shock</b>	IEC 60068-2-27
<b>Freefall</b>	IEC 60068-2-32
<b>Vibration</b>	IEC 60068-2-6
<b>MTBF</b>	463,016 Hours (MIL-HDBK-217)
<b>Warranty</b>	5 years

## Application

## Gigabit Ethernet, 24/48VDC, 30/60W Passive PoE



## Ordering Information

Model Name	Ethernet	PoE Port		Power Input	Certification				Operating Temperature
	10/100/1000 Base-T	IEEE 802.3at	Power Budget	Single Power	Safety EN62368-1	Railway 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

## ■ Package List

- INJ-IG02-PH device
- Terminal block
- Din Rail with screws

## Optional Accessories

## ■ Wall Mount Kit

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

MDR-40-24	Industrial Power, Input 85 ~ 264VAC/120 ~ 370VDC, Output 24VDC, 40W, -20 ~ +70°C (For 24VDC /30W output application)
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)