



# INJ-IG02-PH

Gigabit Passive PoE Injector  
(Always power feeding)

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

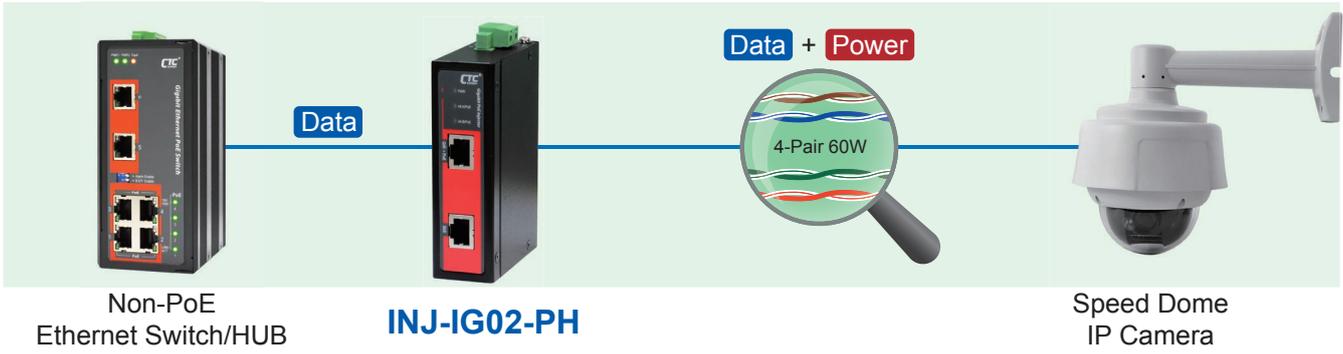
- 1 port Passive PoE Injector
- Support 10/100/1000Base-T Ethernet
- 24 or 48VDC Power input
- Maximum PoE budget 30W (2-pair), 60W (4-pair)
- CE, FCC, EN50121-4 certification
- Heavy industrial grade EMS, EMI, EN61000-6-2, EN61000-6-4 certified
- Wide operating temperature -40 ~ 75°C (INJ-IG02-PHE)
- 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>Operating Humidity</b>	5% to 95% (Non-condensing)
<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>Storage Temperature</b>	-40 ~ 85°C
<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>Housing</b>	Rugged Metal, IP30 Protection
<b>Network Cable</b>	UTP/STP above Cat. 5e cable EIA/TIA-568 100-ohm (100m)	<b>Dimensions</b>	70 x 30 x 103 mm (D x W x H)
<b>LED</b>	Per unit: Power (Green), Alt A/PoE, Alt B PoE (Green)	<b>Weight</b>	210g
<b>Reserve Polarity Protection</b>	Present	<b>Installation Mounting</b>	DIN Rail mounting and, Wall Mounting (Optional)
<b>Overload Current Protection</b>	Present	<b>EMC</b>	CE
<b>Power Supply</b>	24 or 48VDC Input power (Removable Terminal Block)	<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>PoE output voltage</b>	48VDC (for 48VDC input power) 24VDC (for 24VDC input power)	<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>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>Shock</b>	IEC 60068-2-27
<b>Power Consumption</b>	<2W (not include PoE output)	<b>Freefall</b>	IEC 60068-2-32
<b>Removable Terminal Block</b>	Provide 2 Pin for power input connector	<b>Vibration</b>	IEC 60068-2-6
<b>Operating Temperature</b>	-10 ~ 60°C (INJ-IG02-PH) -40 ~ 75°C (INJ-IG02-PHE)	<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	Description
INJ-IG02-PH	Industrial 10/100/1000Base T(X) with Passive PoE Injector ,30W/60W (-10~60°C)
INJ-IG02-PHE	Industrial 10/100/1000Base T(X) with Passive PoE Injector ,30W/60W (-40~75°C)

Temperature

**INJ-IG02 – PH**

Example: INJ-IG02 – PHE