

# INJ-IG01-PH

## Industrial Gigabit PoE Injector

### Industrial Gigabit IEEE802.3af/at Compact Size PoE Injector (15.4/30/36/60W, 48VDC)

- » Power Output 15.4W, 30W, 36W, 60W Select by DIP SW
- » Compliant with 10/100/1000Base-T(X) & IEEE802.3af/at PoE
- » PoE Mode A/B Select by DIP SW
- » EN62368-1, EN50121-4, EN61000-6-2, EN61000-6-4, CE and FCC Certified



The industrial-grade compact size single-port Gigabit PoE injector INJ-IG01-PH securely provides power and data transmission through Ethernet cables, compliant with the original IEEE 802.3af-2003 and updated IEEE 802.3at-2009 PoE standards, providing up to 15.4 W and 30W DC power per port. In addition, the INJ-IG01-PH can provide up to 60W of power through a special design using 4 pairs of Cat5e cables. 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

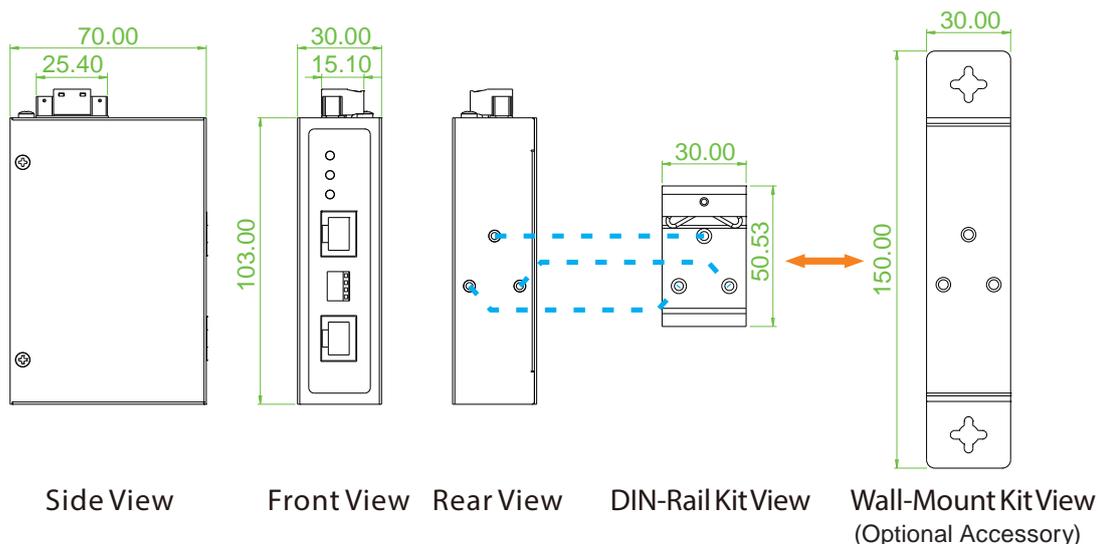
- Provides 1 port IEEE 802.3at/af PoE Injector
- 4 Pairs PD handshake mode select by DIP SW (Such as AXIS® IP cam)
- Wide operating temperature -40 ~ 75°C (INJ-IG01-PHE)
- IP30 rugged metal housing and fanless

## Specifications

<b>Standard</b>	IEEE 802.3	10Base-T Ethernet
	IEEE 802.3u	100Base-TX Fast Ethernet
	IEEE 802.3ab	1000Base-T Gigabit Ethernet
	IEEE 802.3at	IEEE802.3af
<b>PoE Standard</b>	IEEE 802.3at, IEEE802.3af	
<b>PoE Standard &amp; RJ-45 Pin Assignment</b>	RJ-45 supports IEEE 802.3at/af Middle-Span Alternative B mode or End-Span Alternative A mode, set by DIP SW	
	End-Span, Alternative A mode Positive (V+): RJ-45 pin 1, 2. Negative (V-): RJ-45 pin 3, 6. Data (1, 2, 3, 6, 4, 5, 7, 8)	
	Middle-Span, Alternative B mode 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>	System: Power (Green)	
	Alt A/PoE, Alt B/PoE (Green)	
	ON: when a PD device is connected to the GbE + PoE RJ-45 connector and the Injector is feeding power in Alt A or B mode.	
	Blinking: One of the Injector faults (overload, short circuit or over-temperature) occurs.	

<b>DIP SW</b>	SW1	ON: Alternative B mode, PoE Power Pin 4, 5, 7, 8 (When DIP SW 3 Off) OFF: Alternative A mode, PoE Power Pin 1, 2, 3, 6 (When DIP SW 3 Off)	
	SW2	ON: Hi Power 36W, 36W PoE output OFF: Standard PoE, 802.3af (15.4W), 802.3at (30W)	
	SW3	ON: 4 Pair PoE Pin Ultra-High Power 60W PoE Output OFF: 2 Pair PoE Pin depend on DIP SW 1,2	
	SW4	60W PD handshake mode OFF: General PD at ether 2 or 4 pairs mode ON: Compatible with some particular PD devices at high power mode (4 Pair mode), such as AXIS® Q60	
<b>Reverse Polarity Protection</b>	Supported for power input		
<b>Overload Current Protection</b>	Supported		
<b>Power Supply</b>	(44~57VDC) Input power (Removable Terminal Block )		
<b>PoE Power Output</b>	Maximum Ultra High Power 60W, IEEE 802.3at 30W, IEEE 802.3at High power 36W, IEEE 802.3af 15.4W		
<b>Power Consumption</b>		In 30W mode (2 Pairs)	In 60W mode (4 Pairs)
	Input Power Consumption (Input 48VDC)	31.1W	62.8W
	PoE Output Power	30W	60W
<b>Removable Terminal Block</b>	Provides 2 Pin for power input connectorn		
<b>Operating Temperature</b>	-10 ~ 60°C (INJ-IG01-PH)		
	-40 ~ 75°C (INJ-IG01-PHE)		
<b>Operating Humidity</b>	5% to 95% (Non-condensing)		
<b>Storage Temperature</b>	-40 ~ 85°C		
<b>Housing</b>	Rugged Metal, IP30 Protection and fanless		
<b>Dimensions</b>	70 x 30 x 103mm (D x W x H)		
<b>Weight</b>	215g		
<b>Installation Mounting</b>	DIN Rail mounting and Wall Mounting (Optional)		
<b>MTBF</b>	409,994 Hours (MIL-HDBK-217)		
<b>Certification</b>			
<b>EMC</b>	CE (EN55024, EN55032)		
<b>EMI</b>	FCC Part 15 Subpart B Class A, CE		
<b>Railway Traffic</b>	EN50121-4		
<b>Immunity for Heavy Industrial Environment</b>	EN61000-6-2		
<b>Emission for Heavy Industrial Environment</b>	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 (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		
<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		

## Dimensions



## Ordering Information

Model Name	Ethernet	Ethernet with PoE		Power Input	Certification				Operating Temperature
	10/100/1000 Base-T	IEEE 802.3at (PSE)	Power Budget	Single Power	EN62368-1	EN50121-4	EN61000-6-2 EN61000-6-4	CE FCC	
INJ-IG01-PH	1	1	15/30/36/60	48VDC	V	V	V	V	-10~60°C
INJ-IG01-PHE	1	1	15/30/36/60	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 30W@2pair application)

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