INJ-IG01-PH is an industrial grade, single port, gigabit Ethernet PoE (Power over Ethernet) injector with power boost technology. PoE describes a system to pass electrical power safely, along with data, on Ethernet cabling. The original IEEE 802.3af-2003 PoE standard provides up to 15.4 W of DC power to each device. The updated IEEE 802.3at-2009 PoE standard also known as PoE+ or PoE plus, provides up to 30 W of power. Additionally, INJ-IG01-PH can provide up to 36/60 W through the non-standard use of all 4 pairs of category 5 cable. 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.

### Feature
- Provides 1 port IEEE802.3at/af PoE Injector
- Power output 15.4W, 30W, 36W, 60W select by DIP SW
- PoE Mode A/B Select by DIP SW

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PoE RJ-45 Pin Assignment</td>
<td>-RI-45 support IEEE 802.3at/af Middle-Span Alternative A mode or End-Span Alternative A mode, set by DIP SW</td>
</tr>
<tr>
<td>PoE Power Pin 1, 2, 3, 6 (When DIP SW 3 Off)</td>
<td></td>
</tr>
<tr>
<td>PoE Power Pin 4, 5, 7, 8 (When DIP SW 3 Off)</td>
<td></td>
</tr>
<tr>
<td>Network Connector</td>
<td>1 RJ-45 for 10/100/1000Base-T Data, and 1 RJ-45 for 10/100/1000Base-T Data with PoE Output power</td>
</tr>
<tr>
<td>Network Cable</td>
<td>UTP/STP above Cat. 5e cable</td>
</tr>
<tr>
<td>LED</td>
<td>Per unit: Power (Green)</td>
</tr>
<tr>
<td>DIP SW</td>
<td>-ON: Alternative B mode</td>
</tr>
<tr>
<td></td>
<td>-OFF: Alternative A mode</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Power Consumption

<table>
<thead>
<tr>
<th>Input Power Consumption</th>
<th>In 30W mode (2 Pairs)</th>
<th>In 60W mode (4 Pairs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power Consumption</td>
<td>31.1W</td>
<td>62.8W</td>
</tr>
<tr>
<td>PoE Output Power</td>
<td>30W</td>
<td>60W</td>
</tr>
</tbody>
</table>

### Removable Terminal Block
- Provides 2 Pin for power input connector

### Operating
- Temperature: -10 ~ 60°C (INJ-IG01-PH)
- -40 ~ 75°C (INJ-IG01-PHE)

### Operating Humidity
- 5% to 95% (Non-condensing)

### Storage
- Temperature: -40 ~ 85°C

### Warranty
- 5 years

### Certification
- EMC: CE
- EMI: FCC Part 15 Subpart B Class A, CE EN55022 Class A
- Railway Traffic Immunity for Heavy Industrial environment: EN 50121-4
- EN 61000-6-2
- Emission for Heavy industrial environment: EN 61000-6-4
- EMI: 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 (PMMF) Field strength 300A/m Criteria A
- Shock: IEC 60068-2-27
- Freefall: IEC 60068-2-32
- Vibration: IEC 60068-2-6

### Additional Specifications
- Weight: 215g
- Installation: DIN Rail mounting, and Wall Mounting (Optional)
- Power Consumption: 31.1W
- PoE Output Power: 30W, 60W
- IP30 rugged metal housing and fanless

www.ctcu.com
sales@ctcu.com
Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.
Gigabit PoE Injector

Application

- Figure: INJ-IG01-PH Gigabit Ethernet PoE Injector

Up to 100 Meters

Non-PoE Ethernet Switch/HUB

INJ-IG01-PH

PoE PD Device

15.4/30/36/60W

ex. AXIS® Q60 series in 60W mode

Dimensions

INJ-IG01-PH Gigabit Ethernet PoE Injector

Figure:

INJ-IG01-PH Gigabit Ethernet PoE Injector

INJ-IG01-PH

Dimensions

Side View

Front View

Rear View

DIN-Rail Kit View

Wall-Mount Kit View

Ordering Information

<table>
<thead>
<tr>
<th>ModelName</th>
<th>Ethernet</th>
<th>PoE Port</th>
<th>Certification</th>
<th>Operating Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>INJ-IG01</td>
<td>1/10/100</td>
<td>IEEE802.3at (PSE)</td>
<td>V</td>
<td>V</td>
</tr>
<tr>
<td>INJ-IG01-E</td>
<td>1/10/100</td>
<td>15/30/36/60</td>
<td>V</td>
<td>V</td>
</tr>
</tbody>
</table>

Model Naming Rule

- INJ: INJector
- IG: Industrial Gigabit Ethernet
- 01: Model 1
- PHE: 1x High Power PoE -40~75°C
- PH: 1x High Power PoE -10~60°C

Optional Accessories

- Industrial Power Supply
  - DR-120-48: Industrial Power, Input 88 ~ 132VAC / 176 ~ 264VAC, Output 48 VDC, 120W, -10 ~ +60°C
  - IND-WMK03: Wall Mount kit for Industrial product (Compact, 150x 30mm)

Package List

- INJ-IG01-PH device
- Quickly installation guide
- Din Rail bracket with screws
- Terminal block

Specifications & design are subject to change without prior notice. Please visit CTC Union website for more details.