

Industrial Gigabit PoE+ Injector

POEINJ1GI



*actual product may vary from photos

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FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by StarTech.com could void the user's authority to operate the equipment.

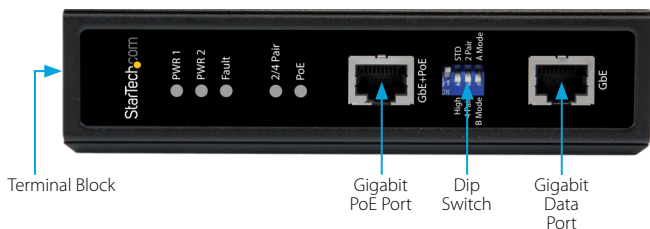
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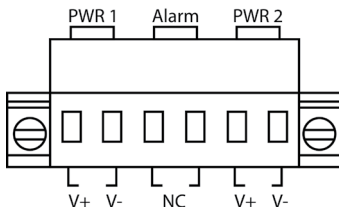
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Product Diagram



Terminal Block Power Connector

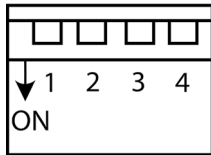
A removable terminal block provides both power and alarm (Normally Closed) connections. Power can be provided through the dual inputs from separate sources. The alarm relay contact can be wired into an alarm circuit which senses an alarm condition when the contact is broken. The alarm relay is normally closed when there is no alarm condition (both PWR1 and PWR2 have source power). If either or both PWR have no power input, the alarm relay will "open".



LED Indicators

PWR1 (Green)	Solid: Power is connected and active at the PWR1 terminal connection
PWR2 (Green)	Solid: Power is connected and active at the PWR2 terminal connection
Fault (Amber)	Solid: There is a fault condition
2/4 Pair (Green)	Solid: The PoE injector is set to high power mode (DIP Switch no.3 is "On")
PoE (Green)	Solid: PoE device detected

Dip Switch



1. **Reserved:** This switch currently has no function and is reserved for possible future use.
2. **STD/High:** When 'Off' this switch will set the injector for IEEE standard power injection (15.4W for 802.3af or 30W for 802.3at).

When 'On', the injector will provide non-standard, high power (up to 36W for 802.3at). This high power setting may be required is connecting to more power hungry "speed dome" PTZ IP camera types.

3. **2 Pair/4 Pair:** When 'Off', this switch will set the injector for IEEE standard power injection (15.4W for 802.3af or 30/36W for 802.3at), over 2 pairs (4-wires).

When 'On', this switch will enable power injection on all 4 pairs (all 8 wires) of the UTP cable. This is non-standard PoE, but it enables an ultra-high power capability for 802.3at, providing up to 60W of power. Ultra-high power may be required by outdoor cameras that seasonally require fan for cooling in summer, or heater in winter to maintain proper operating environment for camera elements.

NOTE: When set to 4 pair, DIP switch no.2 is ignored.

4. **A Mode/B Mode:** In the default mode (A MODE) with switch 4 'Off' the PoE is provided on the 1&2, 3&6 wire pairs.

When 'On', the alternative B Mode provides PoE on the alternate pins 4&5, 7&8.

Introduction

Packaging Contents

- 1x Gigabit PoE+ Injector
- 1x DIN Rail Kit
- 1x Wall Mount Bracket
- 1x Terminal Block
- 1x Instruction Manual

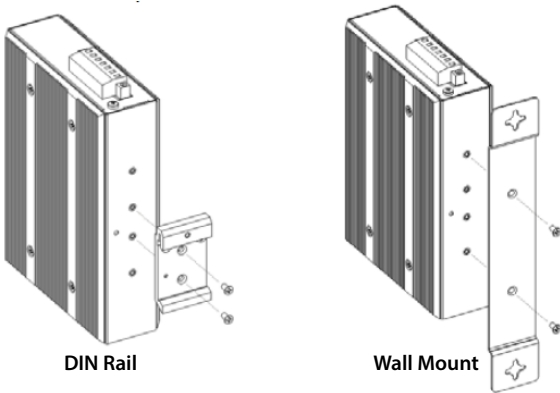
System Requirements

- RJ45 terminated Cat5 or higher Ethernet cabling
- 10/100/1000 Mbps compatible Ethernet network
- 20-57 V DC Power Supply

Installation

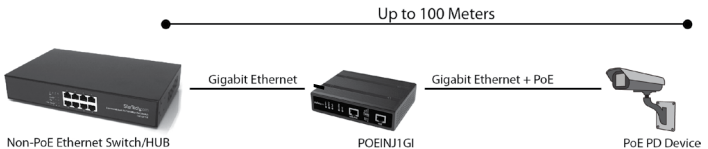
Din Rail / Wall Bracket Installation

If you are mounting the POEINJ1GI product onto either a DIN Rail or to a wall, you will first need to attach the appropriate bracket(s) to the device as shown below.



Hardware Installation

1. Connect an Ethernet cable from the desired source network device (i.e. computer, router, switch, etc.) to the "GbE" RJ45 connector of the POEINJ1GI unit.
2. Connect the terminal block power source(s) to the POEINJ1GI unit.
3. Connect an RJ45 terminated Ethernet cable to the "GbE+PoE" connector on the POEINJ1GI unit. The other end of the cable will either connect directly to a PoE+ / PoE-compliant device, or to a POE Splitter device to separate data and power.



Specifications

Ports	1
Industry Standards	IEEE 802.3af PoE, IEEE 802.3at PoE+ IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T
Regulatory Approvals	EMS: EN61000-6-2, EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8 (PMF, Magnetic Field) Shock: IEC 60068-2-27 Freefall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Connector Type(s)	2x RJ-45 Female 1x Terminal Block (6 Wire)
Max Distance	100 m / 330 ft
Maximum Data Transfer Rate	1Gbps
Power Output	Standard PoE+: 30 Watts max Non-Standard PoE: 60 Watts max
Color	Black
Enclosure Type	Steel
Dimensions (LxWxH)	142 x 106 x 39 mm
Product Weight	720 g [25.42 oz]
Input Voltage	20 - 57 DC – Terminal Block
Humidity	5-95% RH (Non-Condensing)
Operating Temperature	0°C to 60°C (32°F to 140°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)

Technical Support

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Warranty Information

This product is backed by a two year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

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