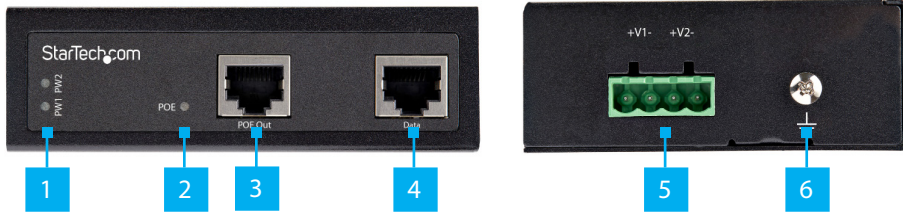


## 90W Industrial Grade Hardened 802.3bt PoE Injector | 1G (1000 Mbps)

### Product Diagram (POEINJ1G90W)



Component	Function
1	Power LEDs <ul style="list-style-type: none"> <li>• <b>Green:</b> A <b>Power Source</b> is detected.</li> <li>• <b>Off:</b> A <b>Power Source</b> is not detected.</li> </ul>
2	PoE LED <ul style="list-style-type: none"> <li>• <b>Amber:</b> Indicates that the <b>PoE Injector</b> is providing power.</li> <li>• <b>Off:</b> Indicates that the <b>PoE Injector</b> is in idle mode.</li> </ul>
3	PoE Out Port <ul style="list-style-type: none"> <li>• Connect a <b>Powered Device (PD)</b> to the <b>PoE Injector</b>.</li> </ul>
4	Data Port <ul style="list-style-type: none"> <li>• Connect a <b>Network Switch</b> to the <b>PoE Injector</b>.</li> </ul>
5	4-Pin Terminal Block V1 and V2 <ul style="list-style-type: none"> <li>• Connect an external <b>DC Power Source</b> (52-56V DC Input) to the <b>PoE Injector</b>.</li> </ul>
6	Ground Screw <ul style="list-style-type: none"> <li>• Connect a ground connection to the <b>Ground Screw</b> when connecting a <b>DC Power Source</b> to the <b>PoE Injector</b>.</li> </ul>

### Requirements

For the latest requirements, please visit [www.startech.com/POEINJ1G90W](http://www.startech.com/POEINJ1G90W)

- Small Flat Head Screwdriver x 1
- (Optional) Phillips® Head Screwdriver x 1
- (Optional) Writing Utensil x 1
- PoE Powered Device (PD) x 1
- Network Switch x 1
- DC Power Source or Universal Power Adapter with Type N (OD: 5.5 mm, ID: 2.5 mm) Barrel Connector x 1

- RJ45 Terminated UTP/STP Cat 5e (or better) Network Cable x 2

### Powering the PoE Injector

#### Terminal Block

Connecting and installing the **4-Wire Terminal Connector**, must be completed by a licensed Electrician.

**Notes:** Make sure that you turn off the power source before connecting the power wire to the **PoE Injector**.

Do not exceed the recommend power source voltage as it may result in personal or product damage.

1. Using a **Small Flat Head Screwdriver**, loosen the two screws (V1 or V2) on the **4-Wire Terminal Connector** (included).
2. Connect the **Power Wires** from a **DC Power Source** (52 - 56V DC), or the provided **Barrel Power Connector Adapter**, to the proper **Terminal Block Connectors** to the terminals are marked on the **PoE Injector's Casing**. Connect the positive wire to V+ and the negative wire to V-.
3. Tighten the two screws on the **4-Wire Terminal Connector**.
4. Insert the **4-Wire Terminal Connector** in the **4-Wire Terminal Block** on the **PoE Injector**.
5. To connect a second **Power Source** to the **PoE Injector**, repeat steps 1 - 4.
6. Using a **Phillips Head Screwdriver**, loosen the **Ground Screw** on the **PoE Injector**.
7. Connect the **Ground Wire** from a **DC Power Source** to the **Ground Screw** on the **PoE Injector**.
8. Using the **Phillips Head Screwdriver**, tighten the **Ground Screw** to secure the **Grounding Wire** to the **PoE Injector**.

#### (Optional) Barrel Connector

- Connect a **Type N (OD: 5.5 mm, ID: 2.5 mm) Barrel Connector** from a **Universal Power Adapter** to the **Terminal Block to Barrel Power Connector Adapter**.

### Connecting the PoE Injector

**Notes:** Make sure the total length of the **CAT5e/6 Cable** connecting the **PD Device** to the **PoE Injector** and the **CAT5e/6 Cable** connecting the **PoE Injector** to the **Remote Switch** does not exceed 100 meters in total length.

1. Connect a **CAT5e/6 Cable** to the **PoE Out Port** on the **PoE Injector** and the other end to an RJ45 port on a **PoE PD Device** (e.g. security camera, etc.).
2. Connect a **CAT5e/6 Cable** to the **Data Port** on the **PoE Injector** and the other end to an RJ45 port on a **Network Switch**.

## Mounting

### DIN Rail Mounting

1. Align the **DIN Rail Brackets** (x 1) with the **Mounting Holes** (x 4) on the side of the **PoE Injector**.
2. Insert the **Mounting Screws** (x 3) through the **DIN Rail Bracket** and into the **PoE Injector**.
3. Using a **Phillips Head Screwdriver**, tighten the **Mounting Screws**. Be careful not to over-tighten the **Mounting Screws**.
4. Clip the **DIN Rail Bracket** onto a **DIN Rail**, securing the **PoE Injector**.

### Wall Mounting

It is recommended that you use **Wall Studs** when wall mounting the **PoE Injector**.

1. Align the **Mounting Brackets** (x 2) with the **Mounting Holes** (x 4) on the side of the **PoE Injector**.
2. Insert the **Mounting Screws** (x 4) through each of the **Mounting Brackets** and into the **PoE Injector**.
3. Align the **PoE Injector** on the wall in the position you want to mount the **PoE Injector**.
4. Using a **Writing Utensil**, mark off both **Mounting Holes** on the **PoE Injector**.
5. Using a **Level**, draw a line connecting the two **Mounting Holes**, making sure that the line is level.

## Regulatory Compliance

### FCC - Part 15

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:

- 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.

### Industry Canada Statement

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe [A] est conforme à la norme NMB-003 du Canada.

CAN ICES-3 (A)/NMB-3(A)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

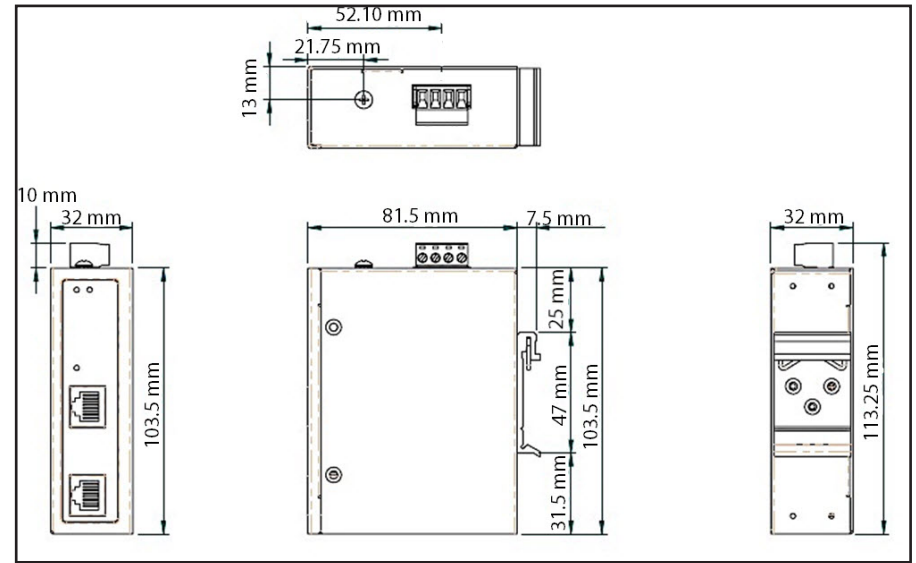
(1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

6. Align the **Mounting Holes** on the **PoE Injector** with the **Mounting Hole Marks**.
7. Insert the **Mounting Screws** (x 2) through the **Mounting Holes** on the **PoE Injector** and into the **Wall**.
8. Using a **Phillips Head Screwdriver**, tighten the **Mounting Screws** until the **PoE Injector** is securely fasten to the **Wall**.

## Product Dimensions



## Warranty Information

This product is backed by a two-year warranty.

For further information on product warranty terms and conditions, please refer to [www.startech.com/warranty](http://www.startech.com/warranty).

## Limitation of Liability

In no event shall the liability of StarTech.com Ltd. and StarTech.com USA LLP (or their officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of or related to the use of the product exceed the actual price paid for the product. Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

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