



INJ-C201G-bt-100-24-T

Industrial Gigabit Enhanced PoE++ Injector, with 1*10/100/1000Base-T(X)
with Enhanced PoE-PSE (100W/Port) and 1*10/100/1000Base-T(X),
Booster Version, 9~55VDC; EOT: -40°C ~ 75°C



Hardware Manual

Version 1.1
(March 2022)



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FCC Warning

This equipment has been tested and found to comply with the limits for a Class-A digital device, according 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. It may cause harmful interference to radio communications if the equipment is not installed and used following the instructions. 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.

Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Avertissement FCC

Cet équipement a été testé et déclaré conforme aux limites d'un appareil numérique de classe A, conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie radiofréquence. Cela peut provoquer des interférences nuisibles aux communications radio si l'équipement n'est pas installé et utilisé conformément aux instructions. Cependant, il n'y a aucune garantie qu'aucune interférence ne se produira dans une installation particulière. Si cet équipement provoque des interférences nuisibles à la réception radio ou télévision, ce qui peut être déterminé en éteignant puis en rallumant l'équipement, l'utilisateur est encouragé à essayer de corriger les interférences par une ou plusieurs des mesures suivantes:

- Réorientez ou déplacez l'antenne de réception.
- Augmentez la distance entre l'équipement et le récepteur.
- Connectez l'équipement à une prise sur un circuit différent de celui auquel le récepteur est connecté.
- Consultez le revendeur ou un technicien radio / TV expérimenté pour obtenir de l'aide.

CE Mark Warning

This is a Class-A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Avertissement de marque CE

Ceci est un produit de classe A. Dans un environnement domestique, ce produit peut provoquer des interférences radio, auquel cas l'utilisateur peut être amené à prendre des mesures adéquates.

Industrial PoE++ Injector

Industrial Grade PoE++ Injector

Hardware Manual

Version 1.1 (March 2022)

The manual supports the following models:

- INJ-C201G-bt-100-24-T

This document is the current official release hardware manual. Please check our website (www.antaira.com) for any updated manual or contact us by e-mail (support@antaira.com).

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1 Overview

Antaira Technologies' INJ-C201G-bt-100-24-T, solves the problem simply by deploying data and power from non-PoE switch and power input to the PD device. PoE injector is a brilliant low-cost solution for the case that only one side of devices is supporting PoE function. Therefore, INJ-C201G-bt-100-24-T will be your best choice to deal with the lack of PoE function cases.

INJ-C201G-bt-100-24-T supports low voltage 9VDC model with power booster technology, ensuring full 90W PoE output, for better usage in the automation industry. Moreover, for some special applications which are eager for more PoE power from the PSE device, this model also supports Enhanced PoE mode to offer up to 100W to the powered device. INJ-C201G-bt-100-24-T with fan-less design, besides extending surely to various industrial applications, it works perfectly in polarized temperature from -40°C to 75°C, and undoubtedly becomes your best option in the industrial market.

1.1 Product Hardware Features

System Interface and Performance

- Embedded 1*10/100/1000Tx RJ45 port (90W/Port) and 1*10/100/1000Tx RJ45 port
- Support IEEE 802.3af/at/bt Compliant PoE
- Support auto detection and classification for PoE application
- Support short-circuit and current-overloading protection for PoE application
- Dip-switch setting for PoE mode and dual PD check

Power Input

- Dual DC 9~55V redundant, with a 4-pin removal terminal block
- Max. current 8A (Included PoE power budget)
- Max. PoE output: 60W@9V, 90W@12V, 100W@24-55VDC
- The power input specification complies with the requirements of SELV (Safety Extra Low Voltage) and the power supply should comply with UL 61010-1 & UL 61010-2-201

Operating Temperature

- Extended operating temperature model: -40°C to 75°C

Case / Installation

- IP30 protection metal housing
- DIN-Rail and wall-mount design
- Installation in a Pollution Degree 2 industrial environment

1.2 Package Contents

- INJ-C201G-bt-100-24-T
- Quick Installation Guide
- Wall mounting bracket set with screws
- DC cable - 18AWG & DC jack 5.5 x 2.1mm **Wire: White (+) / Black (-)
- Dust cover set

1.3 Safety Precaution

Attention: If the DC voltage is supplied by an external circuit, please use a protection device on the power supply input. The industrial PoE injector's hardware specs, ports, cabling information, and wiring installation will be described within this hardware manual.

Attention: Si la tension CC est fournie par un circuit externe, veuillez utiliser un dispositif de protection sur l'entrée d'alimentation. Les spécifications matérielles, les ports, les informations de câblage et l'installation du câblage de l'injecteur PoE industriel seront décrits dans ce manuel du matériel.

Warning Labels

The caution label means that you should check certain information on the user manual when working with the device. (Shown in *Figure 1.1*)

Étiquettes d'avertissement

L'étiquette d'avertissement signifie que vous devez vérifier certaines informations du manuel d'utilisation lorsque vous travaillez avec l'appareil. (Illustré à la *figure 1.1*)



Figure 1.1 - Caution Label
Figure 1.1 - Étiquette de mise en garde



Figure 1.2 - Hot Surface Warning Label
Figure 1.2 - Étiquette d'avertissement de surface chaude

2 Hardware Description

2.1 Physical Dimensions

Figure 2.1, below, shows the physical dimensions of this product series:

(W x D x H) is 30mm x 75mm x 95mm

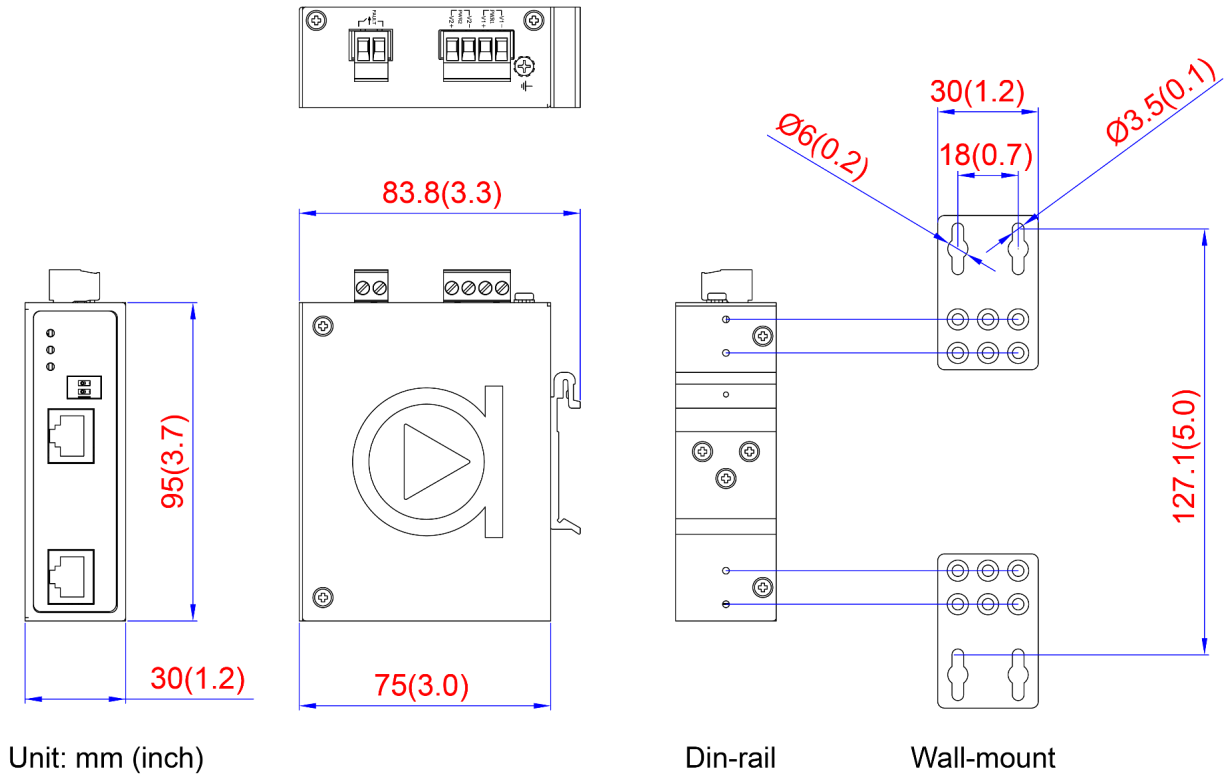


Figure 2.1 - Physical Dimensions

2.2 Front View Panel

Figure 2.2, below, shows the front panel of the product series:

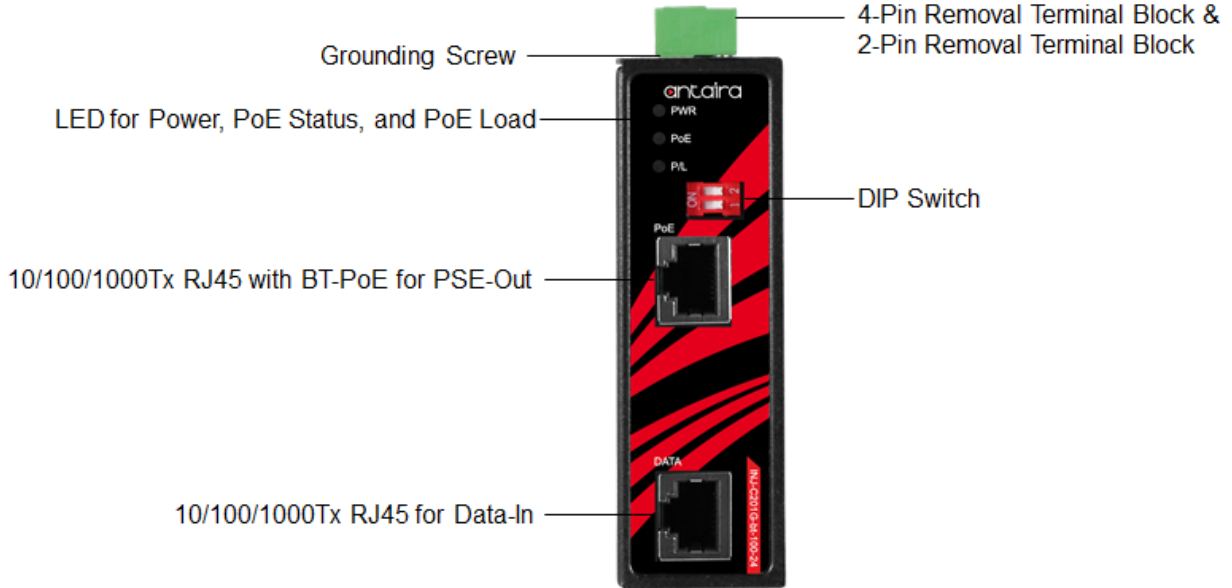


Figure 2.2 - Front View Panel

2.3 Top View Panel

Figure 2.3, below, shows the top panel of the product series:

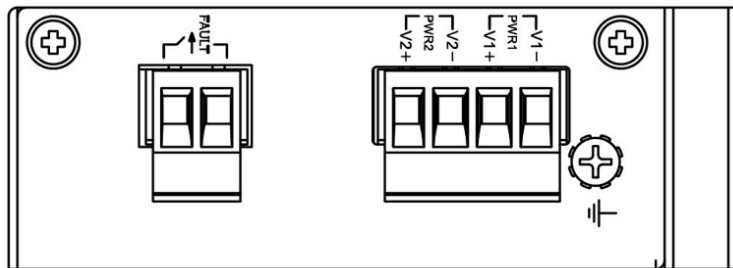


Figure 2.3 - Top View Panel

2.4 LED Indicators

There are LED light indicators located on the front panel of the industrial PoE injector that display the power status and network status. Each LED indicator has a different color and has its specific meaning, see below in *Table 2.1*.

| LED | Color | Description | |
|-------|-------|-------------|---|
| Power | Green | On | Power input 1 or 2 is active |
| | Red | On | Power input 1 or 2 is inactive, trigger relay |
| | - | Off | Power input 1 and 2 is inactive |
| PoE | Amber | On | The PoE output port is supplying power to the powered-device over 2 pairs |
| | Green | On | The PoE output port is supplying power to the powered-device over 4 pairs |
| | Amber | Flashing | The PoE output port is supplying power to the powered-device over 2 pairs after the Dual PD Check event happens. (only occurs when Dual PD Check function is disabled) |
| | Green | Flashing | The PoE output port once supplied power to the powered-device over 2 pairs and now recovers to supply power over 4 pairs. |
| | - | Off | No powered-device attached or power supplying fails |
| P/L | - | Off | Actual Consumption $\leq 30W$ |
| | Blue | On | $31W \leq \text{Actual Consumption} \leq 60W$ |
| | Red | On | $61W \leq \text{Actual Consumption} \leq 90W$ |
| | Red | Flashing | $91W \leq \text{Actual Consumption} \leq 100W$ (only occurs when PoE enhanced mode is enabled) |

Table 2.1 - LED Indicators

2.5 DIP Switch

There is a 2-set DIP switch in the front panel that can be used for setting the PoE Mode and Dual PD Check functions. The default setting for all DIP switches is "OFF". See Table 2.2 and description below for more details.

| | ON | OFF (Default) |
|--------------|-----------------------|------------------------|
| DIP Switch 1 | Enhanced PoE Mode | Standard PoE Mode |
| DIP Switch 2 | Dual PD Check Enabled | Dual PD Check Disabled |

Table 2.2 - DIP Switch Setting for INJ-C201G-bt-100-24 Series

DIP Switch 1

OFF: Enable "Standard PoE Mode" function.

The PoE Output will be activated following IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt PoE Standard

ON: Enable "Enhanced PoE Mode"

The PoE Output will be activated based on the used pairs. If the PSE output is over 2 pairs, the max. PoE budget is 50W; If the PSE output is over 4 pairs, the max. PoE budget is 100W.

DIP Switch 2

OFF: Disabled "Dual PD Check" function

When Dual PD Check is disabled, the port will detect, classify and service power on request for either channel regardless of the detection result on the other channel.

ON: Enabled "Dual PD Check" function

When Dual PD check is set, if an invalid detection signature is discovered on either channel, the port will not perform classification or grant power on requests.

***Note:**

1. When Dual PD Check is disabled in Standard PoE Mode and one of the channels fails, the PoE budget will be based on the classification of the valid channel.
2. When Dual PD Check is disabled in Enhanced PoE Mode and one of the channels fails, the PoE budget will become max.50W over 2 pairs.

2.6 Relay Contact Alarm Warning

The relay contact alarm supports power redundancy failed, PoE total output watts >100% warning and PoE over current or cable short warning. There are 5 key trigger events, please follow the below rules: The relay contact alarm will be triggered when any of the listed events occurs.

- Key trigger event 1: Power-1 or Power-2 is inactive
- Key trigger event 2: PoE total loading >100% PoE output budget
- Key trigger event 3: PoE over current per port
- Key trigger event 4: Cable short per port
- Key trigger event 5: One of the channels in Dual PD fail

[Notice] When the relay is triggered because of Event 2~5, the relay contact alarm will update the status every 30 seconds. If there is no event happening for 30 seconds, the relay contact alarm will be turned off. If the user disables the failed PoE port by removing the cable or Dip Switch manually, the relay will be recovered immediately.

2.7 Ethernet Ports

- **RJ45 Ports**

RJ45 Ports (Auto MDI/MDI-X): The RJ45 ports are auto-sensing for 10Base-T, 100Base-TX, or 1000Base-T connections. Auto MDI means that the switch can connect to another switch or workstation without changing the straight-through or crossover cabling. See the figures below for straight-through and crossover cabling schematics.

- **RJ45 Pin Assignments**

| Crossover Cable | | Straight Through Cable | |
|---------------------|---------------------|------------------------|---------------------|
| Pin Number / Signal | Pin Number / Signal | Pin Number / Signal | Pin Number / Signal |
| 1 / RX+ | 3 / TX+ | 1 / RX+ | 1 / TX+ |
| 2 / RX- | 6 / TX- | 2 / RX- | 2 / TX- |
| 3 / TX+ | 1 / RX+ | 3 / TX+ | 3 / RX+ |
| 6 / TX- | 2 / RX- | 6 / TX- | 6 / RX- |

Table 2.3 - 10/100Base-T(X) RJ45 Pin Assignments

| Crossover Cable | | Straight Through Cable | |
|---------------------|---------------------|------------------------|---------------------|
| Pin Number / Signal | Pin Number / Signal | Pin Number / Signal | Pin Number / Signal |
| 1 / TP0+ | 3 / TP1+ | 1 / TP0+ | 1 / TP1+ |
| 2 / TP0- | 6 / TP1- | 2 / TP0- | 2 / TP1- |
| 3 / TP1+ | 1 / TP0+ | 3 / TP1+ | 3 / TP0+ |
| 4 / TP2+ | 7 / TP3+ | 4 / TP2+ | 4 / TP3+ |
| 5 / TP2- | 8 / TP3- | 5 / TP2- | 5 / TP3- |
| 6 / TP1- | 2 / TP0- | 6 / TP1- | 6 / TP0- |
| 7 / TP3+ | 4 / TP2+ | 7 / TP3+ | 7 / TP2+ |
| 8 / TP3- | 5 / TP2- | 8 / TP3- | 8 / TP2- |

Table 2.4 - 1000Base-T RJ45 Pin Assignments

Note: "+" and "-" signs represent the polarity of the wires that make up each wire pair.

2.8 Cabling

Use the four twisted-pair, category 5e, or the above cabling for the RJ45 port connections. The total length from device A through the Injector to device B must not exceed 100 meters (328 ft.) in length.

2.9 Wiring the Power Inputs



Caution: Please follow the steps below when inserting the power wire.



Attention: Veuillez suivre les étapes ci-dessous lors de l'insertion du câble d'alimentation.

1. Insert the positive and negative wires into the PWR1 (V1+, V1-) and PWR2 (V2+, V2-) contacts on the terminal block connector as shown below in *Figure 2.4*.

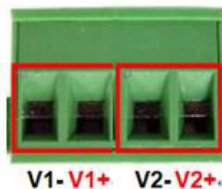


Figure 2.4 - Power Terminal Block

2. Tighten the wire-clamp screws to prevent the wires from loosening, as shown below in *Figure 2.5*.



Figure 2.5 - Power Terminal Block

Caution:



Only use copper conductors, **125°C**, tighten to **5 lbs.**

The wire gauge for the terminal block should range between **18~20 AWG**.

Attention:



Utilisez uniquement des conducteurs en cuivre, **125°C**, serrez à **5 lb.**

Le calibre des fils du bornier doit être compris entre **18 et 20 AWG**.

2.10 Wiring the Fault Alarm Contact

The fault alarm contact is on the 2-pin terminal block connector as the picture shown below. By inserting the wires, it will detect the fault status including power failure or port link failure (managed industrial switch only) and form a normally open circuit. An application example for the fault alarm contact is shown below in *Figure 2.6*.

Insert the wires into fault alarm contact

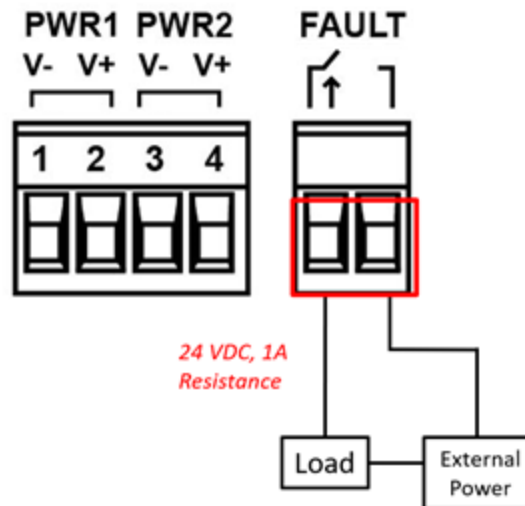


Figure 2.6 - Fault Alarm Contact

2.11 Grounding Note

Grounding and wire routing help limit the effects of noise due to Electromagnetic Interference (EMI). Run the ground connection from the ground screw to the grounding surface before connecting devices. The grounding screw symbol is shown below in *Figure 2.7*.

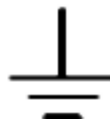


Figure 2.7 - Grounding Screw Symbol



Caution: Using a shielded cable achieves better electromagnetic compatibility.



Attention: L'utilisation d'un câble blindé permet une meilleure compatibilité électromagnétique

3 Mounting Installation

3.1 DIN-Rail Mounting

The DIN-Rail is pre-installed on the industrial PoE injector from the factory. If the DIN-Rail is not on the industrial PoE injector, please see *Figure 3.1* to learn how to install the DIN-Rail on the injector.

Follow the steps below to learn how to hang the industrial PoE injector:

1. Use the screws to install the DIN-Rail bracket on the rear side of the industrial PoE injector.



Caution: The torque for tightening the screws on the device is 3.5 in-lbs.



Attention: Le couple de serrage des vis sur l'appareil est de 3.5 pouces-livres.

2. To remove the DIN-Rail bracket, do the opposite from step 1.
3. After the DIN-Rail bracket is installed on the rear side of the injector, insert the top of the DIN-Rail onto the track as shown below in *Figure 3.2*.
4. Lightly pull down the bracket onto the rail as shown below in *Figure 3.3*.
5. Check if the bracket is mounted tightly on the rail.
6. To remove the industrial PoE injector from the rail, do the opposite from the above steps.

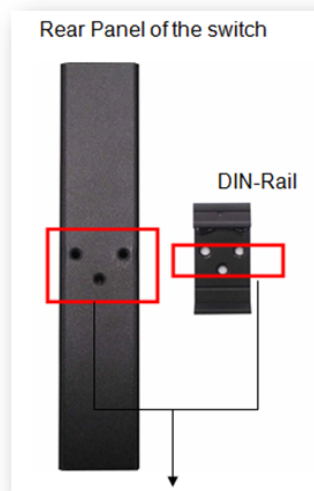


Figure 3.1 - Rear View of the Injector and DIN-Rail



Figure 3.2 - Insert the Injector on the DIN-Rail

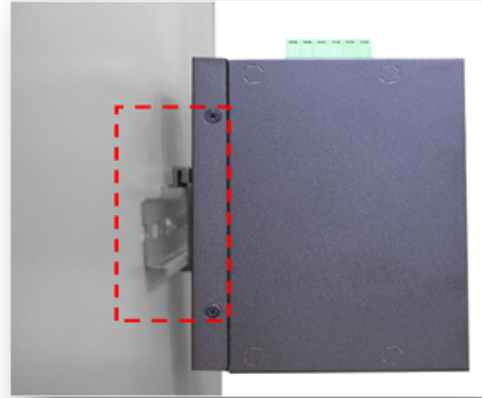


Figure 3.3 - Stable the Injector on the DIN-Rail

3.2 Wall Mounting

Follow the steps below to mount the industrial PoE injector using the wall mounting bracket as shown below in *Figure 3.4*.



Caution: “Wall” means industrial control panel wall



Attention: “Wall” signifie mur de panneau de commande industriel

1. Remove the DIN-Rail bracket from the industrial PoE injector by loosening the screws.
2. Place the wall mounting brackets on the top and bottom of the industrial PoE injector.
3. Use the screws to screw the wall mounting bracket on the industrial PoE injector.



Caution: The torque for tightening the screws on the device is 3.5 in-lbs.



Attention: Le couple de serrage des vis sur l'appareil est de 3.5 pouces-livres.

4. Use the hook holes at the corners of the wall mounting bracket to hang the industrial PoE injector on the wall.
5. To remove the wall mount bracket, do the opposite from the steps above.

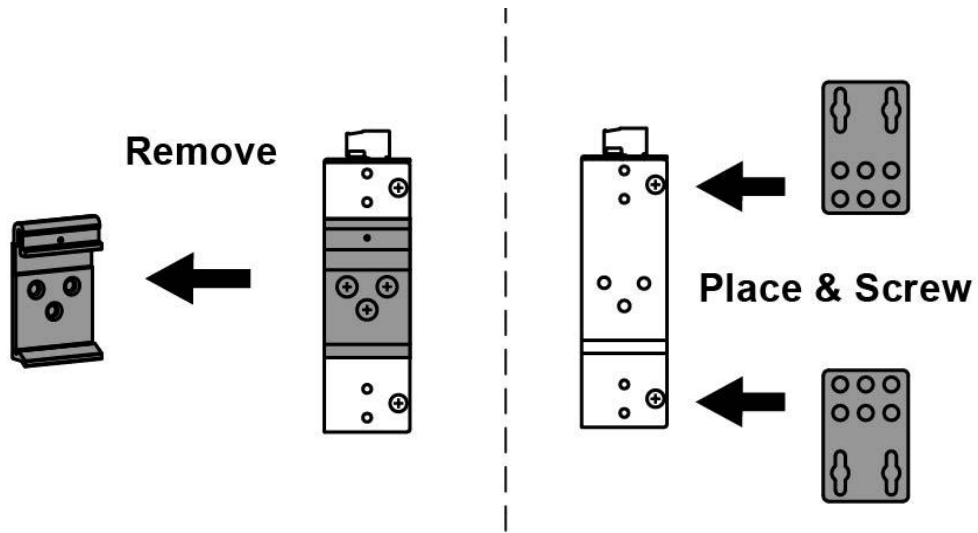


Figure 3.4 - Remove DIN-Rail bracket from the Injector

Below, in Figure 3.5 are the dimensions of the wall mounting bracket.

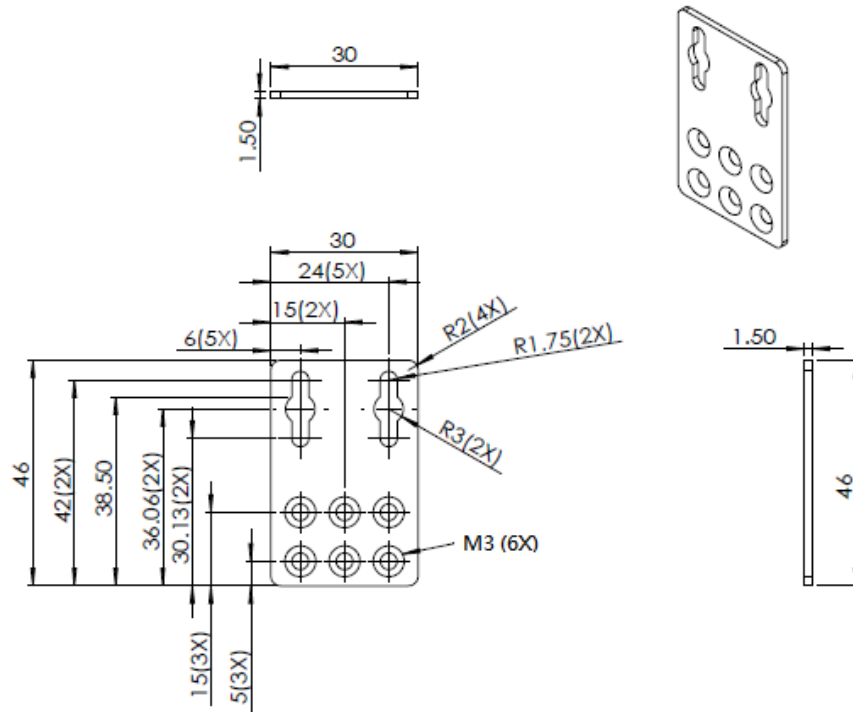


Figure 3.5 - Wall Mounting Bracket Dimensions

4 Hardware Installation

4.1 Installation Steps

This section will explain how to install the industrial PoE injector:



Caution: This device is intended for indoor use.



Attention: Cet appareil est destiné à une utilisation en intérieur.



Caution: The device is intended to be installed in an industrial control enclosure and panel.



Attention: L'appareil est destiné à être installé dans une armoire de commande et un panneau industriels.

Installation Steps

1. Unpack the industrial PoE injector from the original packing box.
2. Check if the DIN-Rail bracket is screwed on the industrial PoE injector.
 - If the DIN-Rail is not screwed on the industrial PoE injector, please refer to the **DIN-Rail Mounting** section for DIN-Rail installation.
 - If it is required to wall mount the industrial PoE injector, please refer to the **Wall Mounting** section for wall mounting installation.
3. To hang the industrial PoE injector on a DIN-Rail or wall, please refer to the **Mounting Installation** section.
4. Power on the industrial PoE injector and then the power LED light will turn on.
 - For the help on how to wire power, please refer to the **Wiring the Power Inputs** section.
 - Please refer to the **LED Indicators** section for LED light indication.
5. Prepare the twisted-pair, straight-through category 5 cable for Ethernet connection.
6. Insert one side of the RJ45 cable into the injector's Ethernet port and on the other side into the networking device's Ethernet port, e.g. switch PC or server.
7. When all connections are set, the installation is complete.

4.2 Maintenance and Service

- If the device requires servicing of any kind, the user is required to disconnect and remove it from its mounting. The initial installation should be done in a way that makes this as convenient as possible.
- Voltage / Power lines should be properly insulated as well as other cables. Be careful when handling them so as to not trip over.
- Do not under any circumstance insert foreign objects of any kind into the heat dissipation holes located in the different faces of the device. This may not only harm the internal layout but might cause harm to users as well.
- Do not under any circumstance open the device for any reason. Please contact your dealer for any repair needed or follow the instructions within the manual.
- Clean the device with a dry soft cloth.

4.3 Troubleshooting

- Always verify the right power cord or adapter is being used. Never use a power supply or adapter with a non-compliant DC output voltage or it will burn the equipment.
- Select the proper UTP or STP cable in order to construct the network. Use an unshielded twisted-pair (UTP) or shield twisted-pair (STP) cable for RJ45 connections: 100Ω Category 5e for 10/100Mbps. Also, be sure that the total length of twisted-pair connections does not exceed 100 meters (328 feet).
- Diagnosing LED Indicators: To assist in identifying problems, the injector can be easily monitored with the LED indicators which help to identify if any problems exist.
 - Please refer to the LED Indicators section for LED light indication.
- If the power indicator LED does not turn on when the power cord is plugged in, the user may have a problem with the power cord. Check for loose power connections, power losses, or surges at the power outlet.
 - Please contact Antaira for technical support service if the problem still cannot be resolved.
- If the industrial injector LED indicators are normal and the connected cables are correct but the packets still cannot transmit, please check the system's Ethernet devices' configuration or status.

5 Technical Specifications

Table 5.1 has the technical specifications for this product series.

| Technology | |
|----------------------------|---|
| Standards | IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3af/at/bt Power over Ethernet |
| Switch Properties | |
| Transfer Rate | 14,880pps for 10Base-T Ethernet 148,800pps for 100Base-T Fast Ethernet 1,488,000pps for Gigabit Ethernet |
| Port Interface | |
| Ethernet Port | 2*10/100/1000BaseTX (1*Data IN, 1*PoE OUT) Note: The total length from the device A through the Injector to the device B must not exceed 100 meters |
| PoE Pin Assignment | V-, V-, V+, V+, for pin 1, 2, 3, 6; V+, V+, V-, V-, for pin 4, 5, 7, 8 *Support Modes: Mode A, Mode B, 4-Pair Mode |
| DIP Switch | DIP Switch 1: PoE Mode On - Enhanced / Off (default) - Standard DIP Switch 2: Dual PD Check On - Enable / Off (default) - Disable |
| LED Indicators | System: Power, PoE , and PoE Load |
| Mechanical Characteristics | |
| Housing | Metal, IP30 rated |
| Dimensions | 30 x 95 x 75 mm (W x H x D) |
| Weight | Unit: 0.82 lbs. Shipping: 1.16 lbs. |
| Mounting | DIN-Rail mounting; Wall mounting |
| Power Requirement | |
| Input Voltage | 9~55VDC Redundant Input |
| Power Connection | 1 removable 4-contact terminal block |

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| | |
|------------------------------------|---|
| Overload Current Protection | Present |
| Reverse Polarity Protection | Present |
| System Power Consumption | 1.6 Watt |
| PoE Power Budget | 60W@9VDC, 90W@12VDC, 100W@24-55VDC |
| Environmental Limits | |
| Operating Temperature | -40°C to 75°C |
| Storage Temperature | -40°C to 85°C |
| Ambient Relative Humidity | 5 to 95%, (non-condensing) |
| Regulatory Approvals | |
| EMI | FCC Part 15 Subpart B Class A CE EN55032/EN61000-6-4 Class A |
| EMS | CE EN55035/EN61000-6-2 EN61000-4-2,3,4,5,6,8 |
| Free Fall | IEC60068-2-32 |
| Shock | IEC60068-2-27 |
| Vibration | IEC60068-2-6 |
| Green | RoHS Compliant |
| Certifications | FCC, CE, UL 61010-1, UL 61010-2-201 |
| Compliance | NEMA TS1/TS2 |
| Warranty | 5 Years |

Table 5.1 - Technical Specifications

Antaira Customer Service and Support

(Antaira US Headquarter) + 844-268-2472

(Antaira Europe Office) +48-22-862-88-81

(Antaira Asia Office) +886-2-2218-9733

Please report any problems to Antaira:

www.antaira.com / support@antaira.com

www.antaira.eu / info@antaira.eu

www.antaira.com.tw / info@antaira.com.tw

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