Antaira Technologies

INJ-C201G-bt-100-24-T

Industrial Gigabit Enhanced PoE++ Injector – 1*10/100/1000BASE-T with PoE-PSE (90W/Port) + 1*10/100/1000BASE-T, Booster Version, 9~55VDC, EOT: -40°C to 75°C

Quick Installation Guide

Version 1.2
(May 2025)



Tel: 1-844-268-2472
Fax: 1-714-671-9944
www.antaira.com

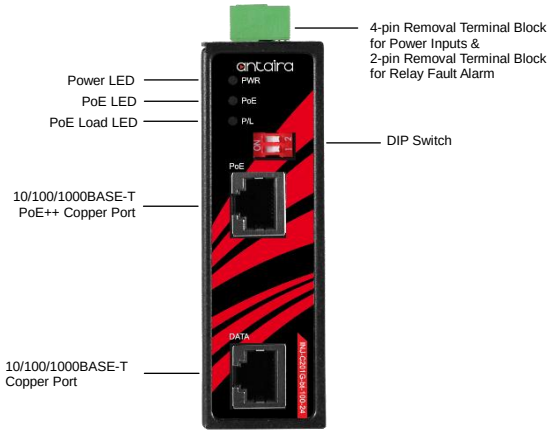
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Package Check List

The package contains the following items:

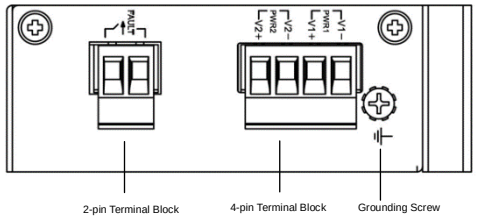
- 1 – Quick installation guide
- 1 – INJ-C201G-bt-100-24-T
- 1 – Wall mounting bracket set with screws
- 1 – DC cable –18 AWG & DC jack 5.5 x 2.1mm

Front Panel Layout



Top Panel View

INJ-C201G-bt-100-24-T top panel is equipped with one 4-pin removal terminal block connector for dual DC power inputs (9~55VDC) and one 2-pin removal terminal block for fault alarm.



Product Overview

System Interface/Performance

- 10/100/1000BASE-T Power over Ethernet Injector
- IEEE 802.3af/at/bt Compliant PoE
- Provides Power Feeding up to 100 Watts
- Power booster technologies for low voltage power inputs

Power Input & Connection

- DC 9 to 55V redundant power, with one 4-pin removal terminal block

Operating Temperature

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

Case/Installation

- IP30 protection
- DIN-Rail and Wall mount design

LED Indicators

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 ≦30W
	Blue	On	31W≦ Actual Consumption ≦60W
	Red	On	61W≦ Actual Consumption ≦90W
	Red	Flashing	91W≦ Actual Consumption ≦100W (Only occurs when PoE enhanced mode is enabled)

DIP-Switch Setting

There are 2-set DIP-switch in front panel, that can be used for setting the PoE Mode and Dual PD Check functions.

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

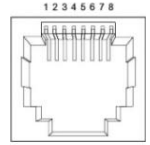
Quick Installation

Ethernet Ports

RJ45 Ports (Auto MDI/MDI-X)

All RJ45 ports are auto-sensing for 10BASE-T, 100BASE-TX or 1000BASE-T device connections. Please follow the wiring pin assignment table below for Ethernet port installation.

RJ45 Ethernet Port Pin Outs				
Pins	**T568A Color**	**T568B Color**	**10BASE-T, 100BASE-TX**	**1000 BASE-T**
Pin 1	white/green stripe	white/orange stripe	Rx+	TP0+
Pin 2	green solid	orange solid	Rx-	TP0-
Pin 3	white/orange stripe	white/green stripe	Tx+	TP1+
Pin 4	blue solid	blue solid	unused	TP2+
Pin 5	white/blue stripe	white/blue stripe	unused	TP2-
Pin 6	orange solid	green solid	Tx-	TP1-
Pin 7	white/brown stripe	white/brown stripe	unused	TP3+
Pin 8	brown solid	brown solid	unused	TP3-



Power Inputs Wiring

Please follow the steps below to insert the power wire:

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 1.*
2. Tighten the wire-clamp screws to prevent the wires from loosening, as shown below in *Figure 2.*

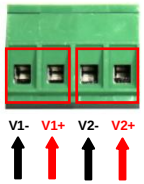


Figure 1



Figure 2

Industrial PoE Injector Mounting

DIN-Rail Mounting

The DIN-Rail bracket is pre-installed on the industrial PoE injector from the factory. Please refer to *Figure 3* for a DIN-Rail bracket installation reference. Follow the steps below for installing the industrial PoE injector on the DIN-Rail track:



Figure 3

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



Figure 4

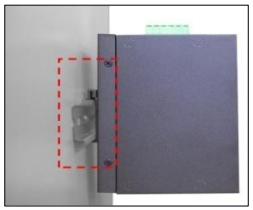


Figure 5

Wall Mounting

Follow the steps below to mount the industrial PoE injector using the wall mounting bracket as shown in *Figure 6.*

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.
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 6

Field 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 the user 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.

***WARNING: When connecting PoE ports of an Ethernet Switch to non-standard Ethernet ports of a device, such as those with GND or low voltage surge protection and other alterations to IEEE 802.3 standard, DAMAGE MAY OCCUR to either or both devices. Devices with ports like these should be connected to non-PoE ports on the switch.**

Warranty Policy

Warranty Conditions

Products supplied by Antaira Technologies are covered in this warranty for sub-standard performance or defective workmanship. The warranty is not, however, extended to goods damaged in the following circumstances:

(a) Excessive forces or impacts
(b) War or an Act of God: wind storm, fire, flood, electric shock, earthquake
(c) Use of unqualified power supply, connectors, or unauthorized parts/kits
(d) Replacement with unauthorized parts

RMA and Shipping Costs Reimbursement

Customers shall always obtain an authorized "RMA" number from Antaira before shipping the goods for repair or replacement.

- Within the warranty period (based on the invoice date), all parts and labor are free of charge to the customers.
- Customers are responsible for the cost of parts and labor, if the products are out of warranty.
- For RMA service, customers are responsible for the shipping expense for shipping the RMA unit(s) to Antaira. Antaira is responsible for the shipping expense via a ground service for the return repair/replace unit(s) back to customers.

Limited Liability

Antaira would not be held responsible for any consequential losses from using Antaira's product.

Warranty Period

5-Year Warranty

Antaira's Customer Service and Support

- Antaira's Technical Service & Support Centers:
  + 844-268-2472 (Antaira US Headquarter)
  + 48-22-862-88-81 (Antaira Europe Office)
  + 886-2-2218-9733 (Antaira Asia Office)

- Antaira's Web Sites & Repair/Support Emails:
  www.antaira.com / support@antaira.com
  www.antaira.eu / info@antaira.eu
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***Any changes will be announced on the Antaira website.**