1. Package Contents

Thank you for purchasing Industrial IEEE 802.3at High Power over Ethernet Injector, POEIND1GAT. The "802.3at PoE+ Injector" mentioned in this User's Manual refers to the POEIND1GAT.

Open the box of the Industrial IEEE 802.3at High Power over Ethernet Injector and carefully unpack it. The box should contain the following items:

- ullet Industrial IEEE 802.3at Gigabit High Power over Ethernet Injector x 1
- User's Manual x 1
- DIN-rail Kit x 1
- Wall-mount Kit x 1
- Dust Cap x 2

If any of these are missing or damaged, please contact your dealer immediately; if possible, retain the carton including the original packing material, and use them again to repack the product in case there is a need to return it to us for repair.

3. Product Specifications

Product		POEIND1GAT		
Hardware Specifications				
Hardware Version		3		
Interface	Input Port	1 x RJ45 STP (Data In)		
	Output Port	1 x RJ45 STP (Data + Power Out)		
	Input Power Terminal Block	1		
LED Indicator		System: Power 1 (Green), Power 2 (Green), Alarm (Red) POE Port: POE-in-use x 1 (Amber)		
Network Cable		10BASE-T: UTP Cat. 3, 4, 5, up to 100m (328ft) 100BASE-TX: UTP Cat. 3, 4, 5, up to 100m (328ft) 1000BASE-T: UTP Cat. 5, 5e, 6 up to 100m (328ft) EIA/TIA- 568 100-ohm STP (100m)		
Data Rate		10/100/1000Mbps		
Dimensions (W x D x H)		32 x 87 x135 mm		
Weight		489g		

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12 ~ 48V DC

32 watts max.

1A @ DC 24V

mid-span PSE

30 watts

Ethernet

IP30 slim metal case

DIN-rail kit and wall-mount ear

Provides one relay output for power

failure; alarm relay current carry ability:

IEEE 802.3at Power over Ethernet Plus

IEEE 802.3 10BASE-T Ethernet

IEEE 802.3u 100BASE-TX Fast Ethernet

IEEE 802.3ab 1000BASE-T Gigabit

IEEE 802.3af Power over Ethernet

FCC Part 15B Class A

IEEE 802.3at Power over Ethernet Plus

Unit Input Voltage

Power Consumption

Number of devices

Installation

Alarm

Enclosure

PoE Standard

that can be powered

Power over Ethernet

PoE Power Output

Standards Conformances

Standards Compliance

FCC

PoE Power Supply Type Mid-span

Power Pin Assignment 4/5(+), 7/8(-)

CE	EMI	EN 55032		
	EMS	EN 55035 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-8		
Stability Testing		IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)		
Environment				
Operating Temperature		-40 ~ 75 degrees C		
Storage Temperature		-40 ~ 85 degrees C		
Humidity		5 ~ 95% (non-condensing)		



The PoE power output ability will depend on the distance.

LED Indicators

4.2 Product Outlook

LED	Color	Function
P1	Green	Indicates Power 1 has power.
P2	Green	Indicates Power 2 has power.
Alarm	Red	Indicates either Power 1 or Power 2 has no power.
PoE-in-Use	Amber	Indicates the port is providing DC in-line power.

Figure 4-2: POEIND1GAT Outlook

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2. Product Features

➤ Interface

- 2 RJ45 interfaces
- ◆1-port Data + Power output
- ♦ 1-port Data input
- One terminal block for master and slave power input. (Power Range: 12 ~ 48V DC redundant power.)

▶ PoE

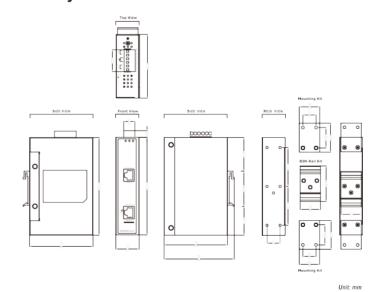
- Compliant with IEEE 802.3at Power over Ethernet Plus mid-span PSE
- Backward compatible with IEEE 802.3af PoE
- IEEE 802.3at/802.3af splitter devices compatible
- Supports PoE Power up to 30 watts for the PoE port
- Provides DC 56V power over RJ45 Ethernet cable to device with Ethernet port
- Auto-detection of PoE IEEE 802.3at/802.3af devices
- Remote power feeding up to 100m

> Hardware

- IP30 slim metal case
- LED indicators for power LED and PoE-in-use
- \succ Industrial Case and Installation
- DIN-rail and wall-mount designs
- Supports 6000 VDC Ethernet ESD protection
- -40 to 75 degrees C operating temperature

4. Hardware Description

4.1 Physical Dimensions



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Figure 4-1: POEIND1GAT Dimensions

4.3 Industrial PoE+ Injector Upper Panel

The upper panel of the Industrial PoE+ Injector consists of one terminal block connector within two DC power inputs. Figure 4-3 shows the upper panel of the Industrial PoE+ Injector.

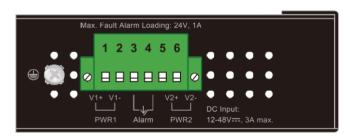


Figure 4-3: Industrial PoE+ Injector Upper Panel



PWR1 and PWR2 must provide the same DC voltage while operating with dual power input.

4.4 Wiring the Power Inputs

The 6-contact terminal block connector on the top panel of Industrial PoE+ Injector is used for two DC redundant power inputs. Please follow the steps below to insert the power wire.

-2- -6- -8-

1. Insert the positive and negative DC power wires into Contacts 1 and 2 for Power 1, or 5 and 6 for Power 2.

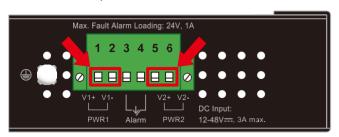


Figure 4-4: Power Input Pins

2. Tighten the wire-clamp screws for preventing the wires from loosening.

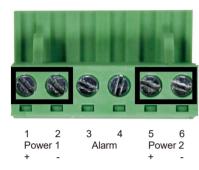


Figure 4-5: PWR1 & PWR2 Pins of Terminal Block



The wire gauge for the terminal block should be in the range of 12 to 24 AWG.

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4.5 Wiring the Fault Alarm Contact

The fault alarm contacts are in the middle of the terminal block connector as the picture shows below. Inserting the wires, the Industrial PoE+ Injector will detect the fault status of the power failure and then form an open circuit. The following illustration shows an application example for wiring the fault alarm contacts.

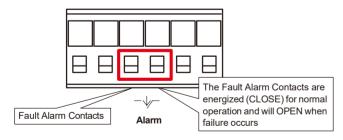


Figure 4-6: Fault Alarm Contact



- 1. The wire gauge for the terminal block should be in the range of 12 to 24 AWG.
- 2. Alarm relay circuit accepts up to a maximum of 24V, 1A currents.

5. Mounting Installation

This section describes how to install the Industrial Equipment and make connections to it. Please read the following topics and perform the procedures in the order being presented.



This following picture tells the user how to install the device, and the device is not POEIND1GAT.

5.1 DIN-rail Mounting

The DIN-rail bracket is already screwed on the industrial device. Please refer to the following figures for hanging the device:

Step 1: Place the upper DIN-rail bracket into the track first.



Figure 5-1: DIN-rail mounting

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Step 2: The lower DIN-rail bracket is then placed into the track.



Figure 5-2: Complete DIN-rail mounting

5.2 Removal of Device

Step 1: Please refer to following procedure to remove the device from the track.



6. Customer Support

Thank you for purchasing ShowMeCables products. You can browse our online resources and User's Manuals on www. ShowMeCables.com. If you require sales or support information, please contact the ShowMeCables support team using the information found below.



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 ${\bf Sales:} \ \underline{\bf Sales@ShowMeCables.com}$

 $Support: \underline{CustomerService@ShowMeCables.com}\\$



Figure 5-3: Removal of Device from Track

 $\mbox{\bf Step 2:}$ Reverse the mounting steps to remove the device from the track.

5.3 Wall-mount Plate Mounting

To install the industrial device on the wall, please follow the instructions described below:

- **Step 1:** Remove the DIN-rail bracket from the industrial device by using a screwdriver.
- **Step 2:** Then screw the wall-mount plate on the rear panel of the industrial device.



Figure 5-4: Placing Wall-mount Plate on Industrial Device

- **Step 3:** Use the holes in the corners of the wall-mount plate to hang the industrial device on the wall.
- **Step 4:** To remove the wall-mount plate, reverse the steps above.

Industrial IEEE 802.3at/af Gigabit PoE+ Injector



Model: POEIND1GAT
User's Manual

Energy Saving Note of the Device

This power required device does not support Standby mode operation. For energy savings, please remove the power cable to disconnect the device from the power circuit.

Without removing power cable, the device can still consume power from the power source. In view of Saving the Energy and reducing the unnecessary power consumption, it is strongly suggested to remove the power connection from the device if this device is not intended to be active.

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