DIGITUS®
Professional

Industrial Gigabit PoE+ Injector 802.3 af/at

User Manual

DN-651112

Table of Contents

1. Package Content

Upon open the box of the Industrial Power over Ethernet Injector and carefully unpack it. The box should contain the following items:

- Industrial Gigabit Power over Ethernet Injector x 1
- User's Manual x 1

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 against to repack the product in case there is a need to return it to us for repair.

2. Product Features

■ **Interface**

2-Port RJ-45 interfaces | 1-Port PoE Out | 1-Port Data

One terminal block for power input.

■ **PoE**

- Gigabit High Power over Ethernet End-Span PSE
- IEEE 802.3at/802.3af PoE compliant
- IEEE 802.3at/802.3af splitter devices compatible
- Support PoE Power up to 15/30/60 Watts for PoE port
- Provides DC power over RJ-45 Ethernet cable to device with Ethernet port
- Auto-detect of PoE IEEE 802.3at/802.3af equipment and devices from being damaged by incorrect installation
- Remote power feeding up to 100m

■ **Hardware**

IP30 Slim Type Metal Case

LED indicators for Power LED and PoE LED

■ **Industrial Case/Installation**

DIN Rail Design, -40 to 75 Degree C operation temperature

 Note	PoE-enabled terminal by PSE and thus consumes energy, such as IP Phones, network cameras and Wireless access points, etc. **PSE (Power Sourcing Equipment)** is a device (switch, or hub for instance) that will provide power in a PoE setup. Maximum allowed continuous output power per such device in IEEE 802.3af is 15.4W, 30W in IEEE 802.3at.

3. Product Specification

Hardware Specification		
Interface	"Data" Input Port	1 x RJ-45 STP
	"PoE (Data+Power)" Output Port	1 x RJ-45 STP
	Input power terminal block	1
LED Indicator		**System:** Power **PoE Port:** PoE In-Use x 1
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
Dimension (W x D x H)		103 x 78 x 32 mm
Weight		295g
Unit Input Voltage		45 ~ 56V DC

Power Consumption	60 Watts max
Number of device can be powered	1
Installation	DIN Rail kit
Enclosure	IP30 Slim Type Metal Case

Power over Ethernet	
PoE Standard	IEEE 802.3af IEEE 802.3at
PoE Power Output	DC 42~54V (base on Power Input)
PoE Power supply Type	End-Span
Power Pin Assignment	3/6/4/5(+), 1/2/7/8(-)
Standards Conformance	
Standards Compliance	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE 802.3ab 1000Base-T **Gigabit Ethernet** IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet enhancement standard
Environment	
Operating Temperature	-40 ~ 75 Degree C
Storage Temperature	-40 ~ 85 Degree C
Humidity	5 ~ 95% (Non-condensing)

4. Hardware Description

4.1 Physical Dimension

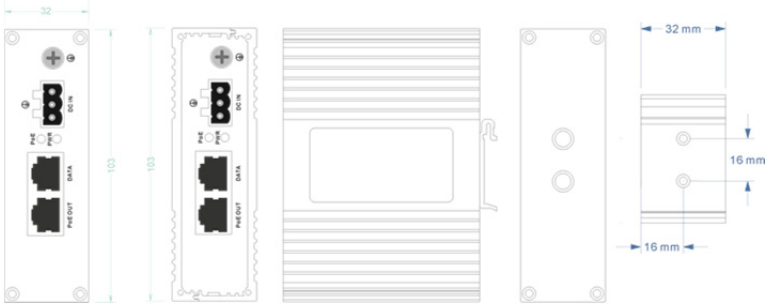


Figure 1

4.2 Product Outlook

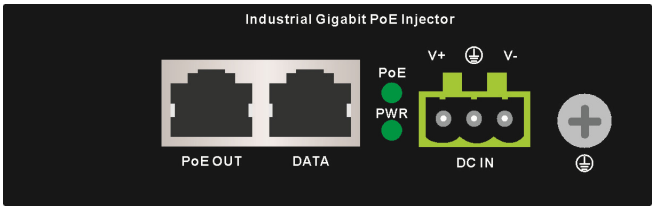


Figure 2

LED Indicators

LED	Color	Function
PWR	Green	Indicate the device has power.
PoE	Green	Indicate the port is providing power

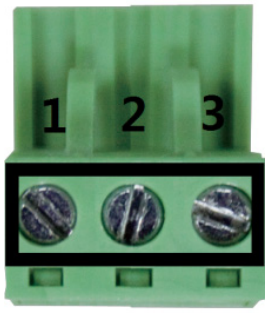
4.3 Wiring the Power Inputs

The 3-contact terminal block connector on the top panel of Industrial PoE Injector is used for DC power input. Please follow the steps below to insert the power wire.

1. Insert Positive/Negative DC power wires into the contacts 1 and 3 for POWER.

Figure 3: Power input PINs.

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



1	2	3
V+	Ground	V-

Figure 4: Pin of Terminal Block.

Note	The wire gauge for the terminal block should be in the range between 12 ~ 24

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.

Note	In the installation steps below, this Manual use 8 Port Industrial Gigabit Switch as the example. However, the steps for Industrial slim type Switch, Industrial Media/ Serial Converter and Industrial PoE equipment are similar.

5.1 DIN-Rail Mounting

The DIN-Rail is already screwed on the Industrial Equipment. Please refer to following figures and know how to hang the Industrial Equipment:

Step 1: Lightly press the button of DIN-Rail into the track.

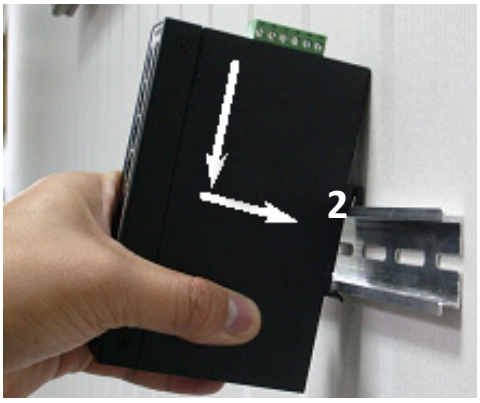


Figure 5: Install Industrial Equipment in DIN-Rail mount.

Step 2: Check the DIN-Rail is tightly on the track.

Figure 6: Industrial Equipment installed in DIN-Rail mount.

5.2 Remove DIN-Rail Mounting

Step 1: Please refer to following procedures to remove the Industrial Equipment from the track.

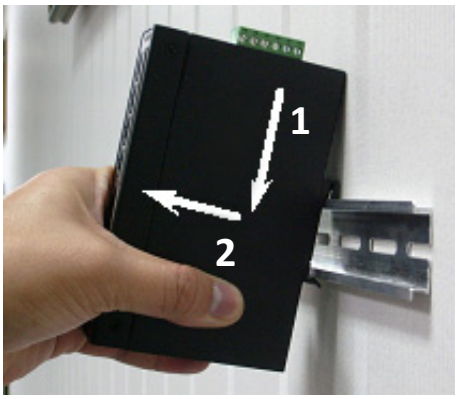


Figure 7: Remove Industrial Equipment in DIN-Rail mount.

Step 2: Lightly press the button of DIN-Rail for remove it from the track.

6. Hardware Installation

This Industrial IEEE 802.3at Gigabit High Power over Ethernet Injector provides three different running speeds – 10Mbps, 100Mbps and 1000Mbps in the same device and automatically distinguishes the speed of incoming connection. Please refer to following sections for detail information about Industrial IEEE 802.3at Gigabit High Power over Ethernet Injector.

Before Installation

Before your installation, it is recommended to check your network environment. If there has any IEEE 803.3af or IEEE 802.3at devices need to power on, the PoE Injector can provide you a way to supply power for this Ethernet device conveniently and easily.

Installation

1. Connect the Power (Range from DC 45 ~ 56V) to 3-pin terminal block of PoE Injector. The **"PWR"** LED will be steady on.
2. Connect a standard network cable from Switch/workstation to **"DATA"** port of PoE Injector.
3. Connect the long cable that will be used to connect to the remote device to the port **"PoE OUT"**.
4. Due to the capability of IEEE 802.3at Power over Ethernet, the PoE Injector can directly connect with any IEEE 802.3at/ IEEE 802.3af devices.
5. Once PoE Injector detects the existence of an IEEE 802.3at device, the **"PoE"** LED indicator will be steady on.

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