



**INDUSTRIAL GIGABIT PoE  
INJECTOR, FULL IEEE802.3af,  
at, bt COMPLIANT,  
up to 85 W**



**Quick Installation Guide**

DN-651141

# 1 Product Introduction

The DN-651141 is a single port Mid-spans offer a compact and cost effective, fully IEEE802.3bt compliant solution for remote powering of wireless LAN (WAN) access points, IP Security cameras, VoIP telephone and other low port density installations.

The DN-651141 PoE Mid-spans eliminate the need for external power supply and its associated AC/DC power cabling, providing a compact, affordable, safe and reliable power solution over existing Ethernet infrastructure.

## 2 Features

- Full IEEE802.3af, IEEE802.3at, IEEE802.3bt Compliant
- Up to 85W of Power on 4-pairs
- Auto-detect of IEEE802.3af, IEEE802.3at, IEEE802.3bt PD
- Supports 10/100/1000Base-T applications
- LED indicators power input and PoE output indication
- Distance up to 100 meters
- DC Input 45~56V
- DIN-Rail installation
- Wide operating temperature: -40 ~ +75°C

## 3 Package Contents

- 1x Industrial Gigabit Ultra Power over Ethernet Injector
- 1x User's Manual
- 1x DIN Rail Kit

## 4 Hardware Specifications

No. of Ports	1
Pass Through Data Rates	10/100/1000Mbps
Power over Ethernet Output	Pin Assignment and Polarity: Alternative A: V+ (RJ45 Pin3,6), V- (RJ45 Pin 1,2), Alternative B: V+ (RJ45 Pin4,5), V- (RJ45 Pin 7,8), User Port Power: 85W max
Input Power Requirements	DC Input Voltage: 45 to 56 VDC
Indicators	System Indicator: DC Power
	User Indicator: Channel Power
Connectors	Shielded RJ-45, EIA 568A and 568B
Regulatory Compliance	IEEE802.3af, IEEE802.3at, IEEE802.3bt type3, IEEE802.3bt type4
Environmental Conditions	Operating Ambient Temperature: -40 ~ +75°C
	Operating Humidity: 90%, Non-condensing
	Storage Temperature: -40 to 75°C
	Storage Humidity: 95%, Non-condensing
Dimension(W x D x H)	103 x 78 x 32 mm
Weight	295g

# 5 Product Outlook

## Front Panel



## LED Indicators

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

## Wiring the Power Inputs

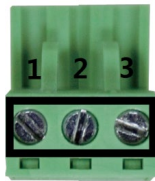
The 3-contact terminal block connector on the top panel of Industrial PoE Injector is used for DC power input. Please follow the steps below to insert the power wire.

1	2	3
V+	Ground	V-

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



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



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

## 6 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.

### 6.1 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.



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



## **6.2 Remove DIN-Rail Mounting**

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



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

## 7 Hardware Installation

This Industrial IEEE 802.3bt 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 802.3bt Gigabit High Power over Ethernet Injector.

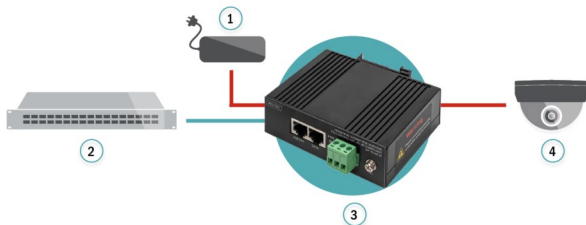
### **Before Installation**

Before your installation, it is recommended to check your network environment. If there has any IEEE 803.3af or IEEE 802.3at/bt 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
5. Injector can directly connect with any IEEE 802.3at/bt / IEEE 802.3af devices.
6. Once PoE Injector detects the existence of an IEEE 802.3bt device, the **“POE”** LED indicator will be steady on.

## 8 Connecting the PoE Splitter



1	48 VDC	2	Network Switch
3	PoE Injector	4	PoE IP Camera



This is a Class A product. In home environment, this product may cause radio interference. In this case, the user may be required to take appropriate measures.

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