



# **INDUSTRIAL PoE SPLITTER, DIN RAIL, 60 W, IEEE802.3at, af, bt**



## **Quick Installation Guide**

DN-651140

# 1 Product Introduction

The DN-651140 PoE splitter splits the 48VDC over the RJ45 Ethernet cable into 12VDC power output. Supports PoE applications in Gigabit Ethernet environments. The modules compliant with IEEE 802.3bt power classification and support PSE Alternative A and Alternative B connections. Maximum power output can reach 51W. 36Vdc to 57Vdc and less external components needed one output decoupling capacitor.

## 2 Features

- Complies with IEEE802.3af, IEEE802.3at, IEEE802.3bt
- Support PoE applications in Gigabit Ethernet environments
- Auto-Sensing Algorithm enables taking power from IEEE802.3at PSE.
- Splits the 48VDC power over RJ45 Ethernet cable into different DC output.
- Support wide input voltage range 36Vdc to 57Vdc.
- Maximum power output up to 51W
- Output 12VDC/4.25A
- Thermal cut off.
- Short circuit protection
- High efficiency DC/DC converter
- LED indicators for power input indication
- DIN-Rail installation

### 3 Package Contents

- 1x PoE Splitter
- 1x User Guide
- 1x DC-DC Power Cable

### 4 Hardware Specifications

Ports	1x 10/100/1000M RJ45 PoE Port (DATA + POWER IN), 1x 10/100/1000M RJ45 LAN Port (Only DATA), 1x Connector (DC OUT)
Network Media	10Mbps: Cat 3,4,5 Unshielded Cable, 100Mbps: Cat 5,5E Unshielded Cable, 1000Mbps: Cat 5E, 6 Unshielded Cable
Network Media(cable)	10BASE-T: UTP category 3,4,5 cable (≤100m) 100BASE-TX: UTP category 5 cable (≤100m) 1000BASE-T: UTP category 5e cable (≤100m)
Pass Through Data Rates	10/100/1000 Mbps
Standards	IEEE802.3, IEEE802.3u, IEEE802.3az, IEEE802.3x, IEEE802.3af, IEEE802.3at, IEEE802.3bt

Indicators	PoE ready / in-use
Connectors	Shielded RJ-45, EIA 568A and 568B
Operating Ambient Temperature	-40 to 75°C
Operating Humidity	Maximum 90%, non-condensing
Storage Temperature	-40 to 75°C
Storage Humidity	Maximum 95%, non-condensing
Dimensions	103 x 177 x 32 mm

## 5 Product Outlook

### Front Panel

The front panel composed by PSE output ports with data link port, the relevant indicator, as shown below:



PoE In: connect to the PSE or PoE Injector with a UTP cable.

Data: Connect to the Ethernet device with CAT5 UTP cable to transmit data.

DC Out: Connect to the power port of the Ethernet device with the provided power cable to supply the power 12V DC.

## 6 Installation the Switch

This part describes how to install your Ethernet Switch and make connections to it. Please follow the following instructions in avoid of incorrect installation causing device damage and security threat.

### 6.1 Notice the matters

- Before cleaning the switch, unplug the power plug of the switch first. Do not clean the switch with wet cloth or liquid.
- Do not place the switch near water or any damp area.
- Prevent water or moisture from entering the switch chassis.
- Do not place the switch on an unstable case or desk. The switch might be damaged severely in case of a fall.
- Ensure proper ventilation of the equipment room and keep the ventilation vents of the switch free of obstruction.
- Make sure that the operating voltage is the same one labelled on the switch.
- Do not open the chassis while the switch is operating or when electrical hazards are present to avoid electrical shocks.

### 6.2 Installation environment

Before the installation, should first confirm that there is a suitable working environment.

### **Installation requirements:**

- Avoid direct sunlight, away from the heat source or strong electromagnetic interference.
- Check cable and connector according to reasonable configuration requirements, the cable (<100m)
- The product does not provide installation component: screws, nuts, and other installation tools.
- Power requirements: PD voltage input range 36~57V, power 60W
- Working temperature of -40°C ~ 75 °C, relative humidity is 5% ~ 95%

## **6.3 Installation**

This section describes how to install the Gigabit PoE switch and make connections to it, please read the following topics, and perform the procedures in the order being presented.

### **DIN-rail mounting**

Adopt the 45mm standard DIN card rail type installation, check whether the DIN-rail rail mounting tool accessories (this product has supplied installation fittings) check whether the DIN rail is firm.



The DIN card into the DIN rail connector, check and confirm the product reliable installation to DIN rail.



## 7 Connecting the PoE Splitter

You can use 60W PoE Splitter with PSE to expand your network to where there are no power lines or outlets, where you wish to fix devices such as APs, IP Cameras, or IP Phones, etc. The following steps will tell you how to connect the PoE Splitter correctly.

1. Use a UTP cable to connect a PoE port of the PSE (ex. PoE Switch) to the PoE port.
2. Connect the Data port to the Ethernet device with UTP cable for data transmitting.
3. Connect the DC(Vout1) port to the power port of the same Ethernet device with the provided power cable.



1: PoE Network Switch	2: PoE Splitter	3: non-PoE IP Camera
A: Power + Data	B: Power	C: Data

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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