Lantech

Power Over Ethernet Splitter

with adjustable output

MODEL:POS-100
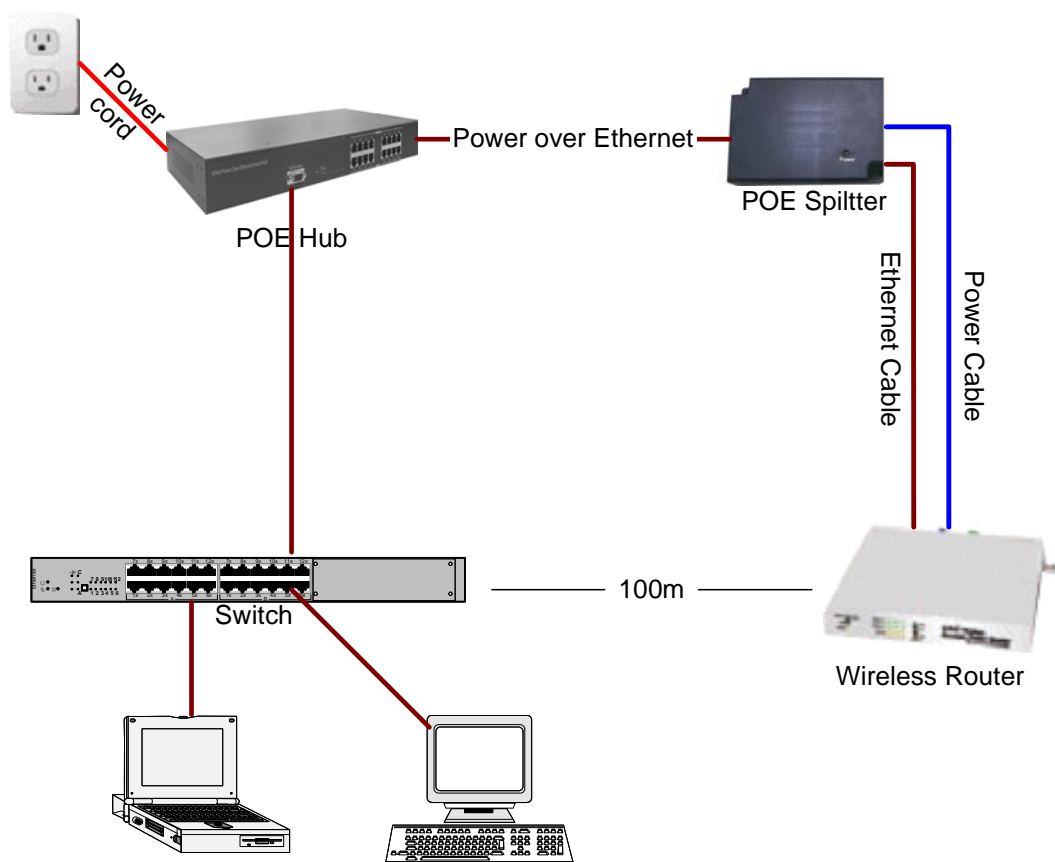
User Manual

Content

Overview

The Power over Ethernet Splitter split data and power out, and output Ethernet data and DC power to the network device that is not compliant with IEEE802.3af standard. The network device can accept the power and Ethernet data from the Splitter. The following figure shows the how Power over Ethernet Splitter work.

Features

- Support 5v, 7.5v, 9v, 12v output adjustable
- IEEE802.3af compliance
- Short circuit protection
- Delivering power and data to power device
- Plug-and-Play

- Light weight and compact size
- For Wireless AP, Bluetooth AP, IP Camera, IP Telephones, remote power feeding application
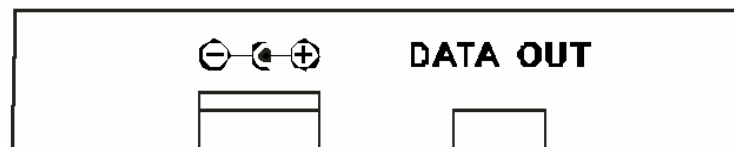- Regulated output voltage by switch

Hardware Description

The Power over Ethernet Splitter has three connection ports, one LED indicator, and Dipswitch for voltage adjusting. We will description each in following.

- **Data In port:** It is a RJ-45 Ethernet interface port for data transmit to the PoE Splitter. It is for connecting with PoE injector.
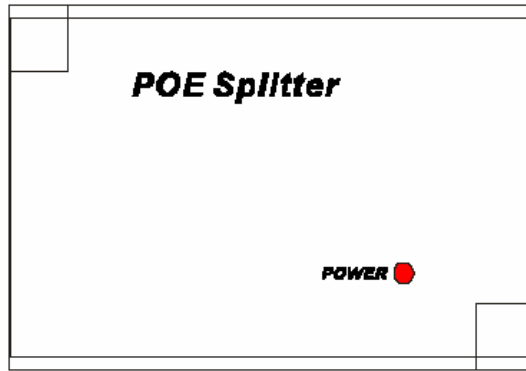

The Data In port figure

- **Data Out port:** It is a RJ-45 Ethernet port and has a fix RJ-45 cable for connecting with the Power device.
- **Power Out port:** It supports two types of power cable – 5.5 x2.0mm and 5.5x2.5mm. These two types of DC power jack contain in package. The Power Out port is for transmitting the power to the device that powered by 5V, 7.5V, 9V or 12V.
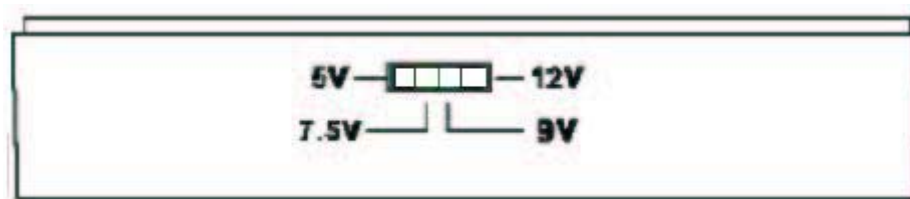

Data Out and Power Out port figure

- **LED indicator:** one Power LED indictor for the system unit. It locates on the topside of the Power over Ethernet Splitter.

System power LED indicator

- **DIPswitch:** It uses for switching the voltage to PD. It provides four-voltage value – 5V, 7.5V, 9V and 12V. The default is 5V. When you adjust the Dipswitch, please power off the Power over Ethernet Splitter.

DIPswitch

Package Contents

- One Power over Ethernet Splitter with fixed RJ-45 cable(315 mm)
- 2 DC Power Jack – inner dimension: 5.5x2.0mm x 1, length: 914 mm(3Ft) / 5.5x2.5mm x 1, length: 914mm(3Ft)
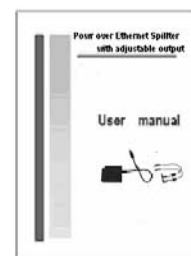- User Manual

The Power over Ethernet Splitter   **2 DC Power Jack**   **User Manual**

With adjustable output

Compare the contents of your Power over Ethernet Splitter package with the standard checklist above. If any item is missing or damaged, please contact your local dealer for service.

Installation

To install the Power over Ethernet Splitter, please follow the below steps.

0. Using RJ-45 cable to connect the **Data in** port on the Power over Ethernet Splitter with the PoE Switch/HUB (which is **Data out** port). If the Switch/HUB does not support PoE function, you need to install a PoE injector between Switch/HUB and Power over Ethernet Splitter.

0. Using RJ-45 cable to connect the **Data out** port on the Power over Ethernet Splitter with the PD (Such as Router, Access Point…etc.)

0. Choose the power cable (Internal Diameter 2.0mm or 2.5mm) and plug into the **Power out** port on the Power over Ethernet Splitter.

0. Plug in the power cable of the Power over Ethernet Splitter to the PD's power plug.

0. Adjust the Voltage for PD; switch the DIP setting on the Power over Ethernet Splitter. It supports four type of voltage – 5V, 7.5V, 9V and 12V. **The default value will be set on 5V**. When you change voltage by DIP switching to different voltage, the Power over Ethernet Splitter must be in powered off status.

0. Before starting, make sure all connections are correct and the voltage is right.

   - The Power over Ethernet Splitter connects to the Switch or POE Injector is in **Data in** port.
   - The Power over Ethernet Splitter connects to the device with two connection ports – **Data out** and **Power out**.
   - The voltage has four types – 5V, 7.5V, 9V and 12V.

Technical Specification

The following table provides the technical specification of the Power over Ethernet.

Standard	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3af Power over Ethernet
Power jack diameter	2 power cable with straight plug and a right angle plug Plug dimension: 5.5 x 2.0mm, 5.5 x 2.5mm
Adjust Switch	4-Segment switch for output voltage selection
Connector	Data and power in: 1 x RJ-45.Data pin 1,2,3,6 Power pin: 4,5(V+), 7,8(V-) and 1,2(V+), 3,6(V-) Data out: 1 x RJ-45, Data pin 1,2,3,6 Power out jack: 5V, 7.5V, 9V, 12V (Adjustable)/ Maximum feeding current: 2.0A@5V
Network Cable	10BASE-T: 2-pair UTP/STP Cat.3, 4,5 cable EIA/TIA-568 100-ohm (100m) 100BASE-TX: 2-pair UTP/STP Cat.5 cable EIA/TIA-568 100-ohm (100m)
LED	System: power (green)
Power Input	DC 48V, 0.3A
Operating Temperature	0℃~45℃

Operating Humidity	10%~90% Humidity (non-condensing)
Storage Temperature	-40℃~70℃
Dimension	80mm x 55mm x 26mm (W x D x H)
EMI & Safety	FCC Class B, CE, CE/EN60950