PoE Splitter

Power over Ethernet Splitter 802.3af

PN: POE-22001T

USER'S MANUAL
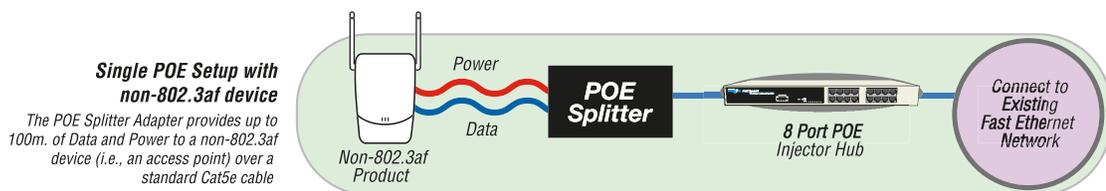
A Network Systems Solution

UNICOM

Content

Overview

Unicom's new Power over Ethernet (PoE) Splitter Adapter provides Ethernet data and DC power to a network device that is not compliant with the IEEE802.3af standard (non-PoE). This adapter effectively provides Ethernet data and DC power to a non-PoE device with a single cable and allows it to operate within a PoE network. PoE is an efficient and convenient solution for remote applications where available space is limited and/or no power source is readily available. Following is a sample PoE Splitter application.

Single POE Setup with non-802.3af device

The POE Splitter Adapter provides up to 100m. of Data and Power to a non-802.3af device (i.e., an access point) over a standard Cat5e cable

Power

Data

POE Splitter

8 Port POE Injector Hub

Connect to Existing Fast Ethernet Network

Non-802.3af Product

Features

- Adjustable Output Range: 5v, 7.5v, 9v, and 12v
- IEEE802.3af compliant
- Short circuit protection
- Delivers DC power and data to no-PoE devices
- Plug-and-Play
- Light weight and compact
- Perfect for Wireless AP, Bluetooth AP, IP Cameras, IP Telephones, and remote power-feeding applications
- Two different-sized detachable power cables for added flexibility

Package Contents

- ■ (1) **Power over Ethernet Splitter**
- ■ (2) DC Power Cables – 5.5x2.0mm and 5.5x2.5mm
- ■ User's Manual

PoE Splitter
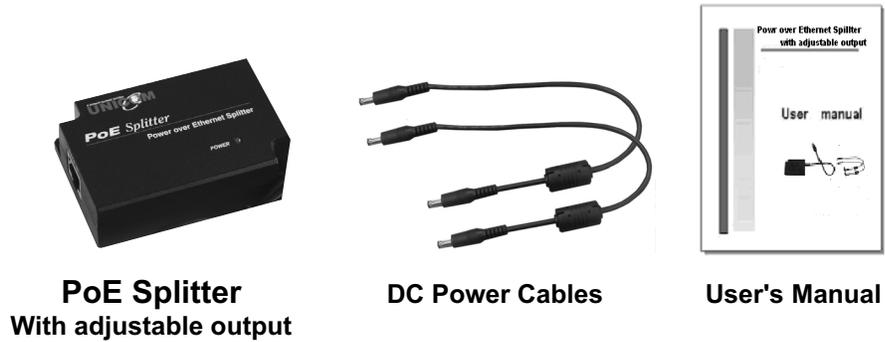**With adjustable output**   **DC Power Cables**   **User's Manual**

Figure 1-1. Package Contents

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.

Hardware Description

Unicom's Power over Ethernet Splitter Adapter has three connection ports, one LED indicator, and a voltage adjustment DIPswitch.

■ **Data In port:** This is an RJ-45 Ethernet interface port for data transmission into the PoE Splitter. This port connects with a PoE injector.


The **Data In** port

■ **Data Out port:** This is an RJ-45 Ethernet port and has a detachable RJ-45 cable for connecting with a PoE device such as a camera.

■ **Power Out port:** The adapter supports and includes two types of power cables – 5.5 x2.0mm and 5.5x2.5mm. The Power Out port transmits DC power to a 5V, 7.5V, 9V or 12V device.
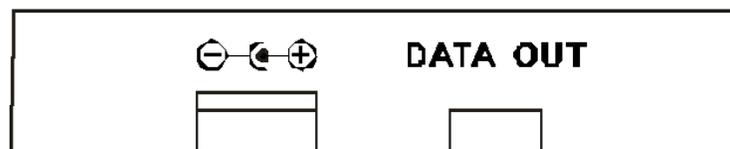

Data Out and **Power Out** ports

■ **LED indicator:** The splitter features one system Power LED indicator. It is located on the top of the Power over Ethernet Splitter.
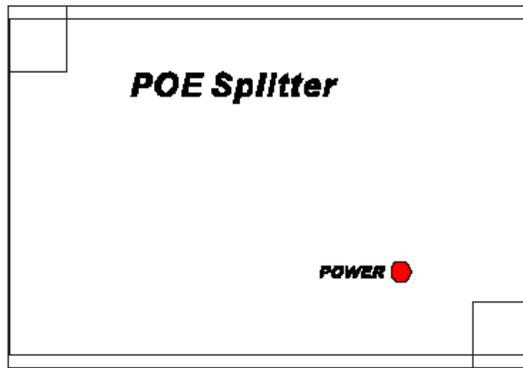
System Power LED indicator

■ **DIPswitch:** The DIPswitch changes the splitter voltage allowing for it to operate with a variety of products. It provides four voltage values – 5V, 7.5V, 9V and 12V. The default is 5V. Before adjusting the DIPswitch, disconnect the power from Splitter Adapter.
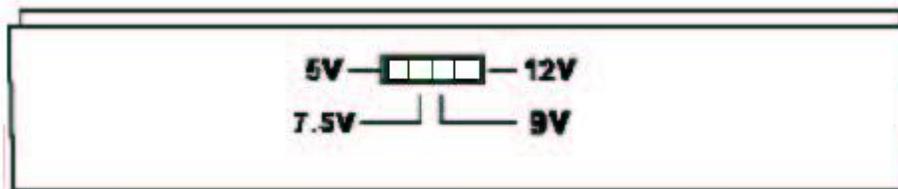
DIPswitch

Installation

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

1. Use an RJ-45 cable to connect the **Data In** port on the Power over Ethernet Splitter Adapter with the **Data Out** port of a PoE Hub. If the hub does not support PoE function, you'll need to install a PoE Injector (pn: POE-32001T) between the hub and splitter.

2. Use an RJ-45 cable to connect the **Data Out** port on the PoE Splitter Adapter to a remote device (Such as a router, access point, camera, etc.).

3. Choose the proper power cable (either 2.0mm or 2.5mm) and plug the straight end into the **Power Out** port on the Splitter.

4. Plug the right-angle end of the power cable into the device's power port.

5. Adjust the Voltage on the Splitter to match the remote device. It supports four voltage values – 5V, 7.5V, 9V and 12V. **The default value is 5V**. Before adjusting the DIPswitch, please disconnect the power from the Splitter Adapter.

6. Before powering on the system, ensure all connections and the voltage is set correctly.

    ■ The PoE Splitter connects to the Switch or POE Injector in the **Data In** port.

    ■ The PoE Splitter connects to the remote device through two connection ports – **Data Out** and **Power Out**.

    ■ The voltage is set correctly: 5V, 7.5V, 9V and 12V.

Technical Specification

Standard	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3af Power over Ethernet
Power jack diameter	(2) Power Cables, each with straight and a right angle plugs Plug dimension: 5.5 x 2.0mm, 5.5 x 2.5mm
DIPswitch	Four-segment output voltage switch
Connector	**Data / 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.5e cable, EIA/TIA-568 100-ohm (100m)
LED	System: power (green)
Power Input	DC 48V
Operating environment	0˚~ 40˚, 90% Humidity (non-condensing)
Dimension	80mm x 55mm x 26mm (L x W x H)
EMI & Safety	FCC Class B, CE, CE/EN60950

UNIDOC020905