

**MILAN**<sup>®</sup>  
TECHNOLOGY



**MIL-L100s**  
**Power over Ethernet Dual-Voltage**  
**Splitter**

**USER GUIDE**

Regulatory Approval

- FCC Class A
- UL 1950
- CSA C22.2 No. 950
- EN60950
- CE
- EN55022 Class A
- EN55024

Canadian EMI Notice

This Class A digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numerique de la classe A respecte toutes les exigences du Reglement sur le materiel brouilleur du Canada.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives imply conformity to the following European Norms:

- EN55022 (CISPR 22) - Radio Frequency Interference
- EN61000-X - Electromagnetic Immunity
- EN60950 (IEC950) - Product Safety

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**To Contact MiLAN Technology**

For prompt response when calling for service information, have the following information ready:

- Product serial number and revision
- Date of purchase
- Vendor or place of purchase

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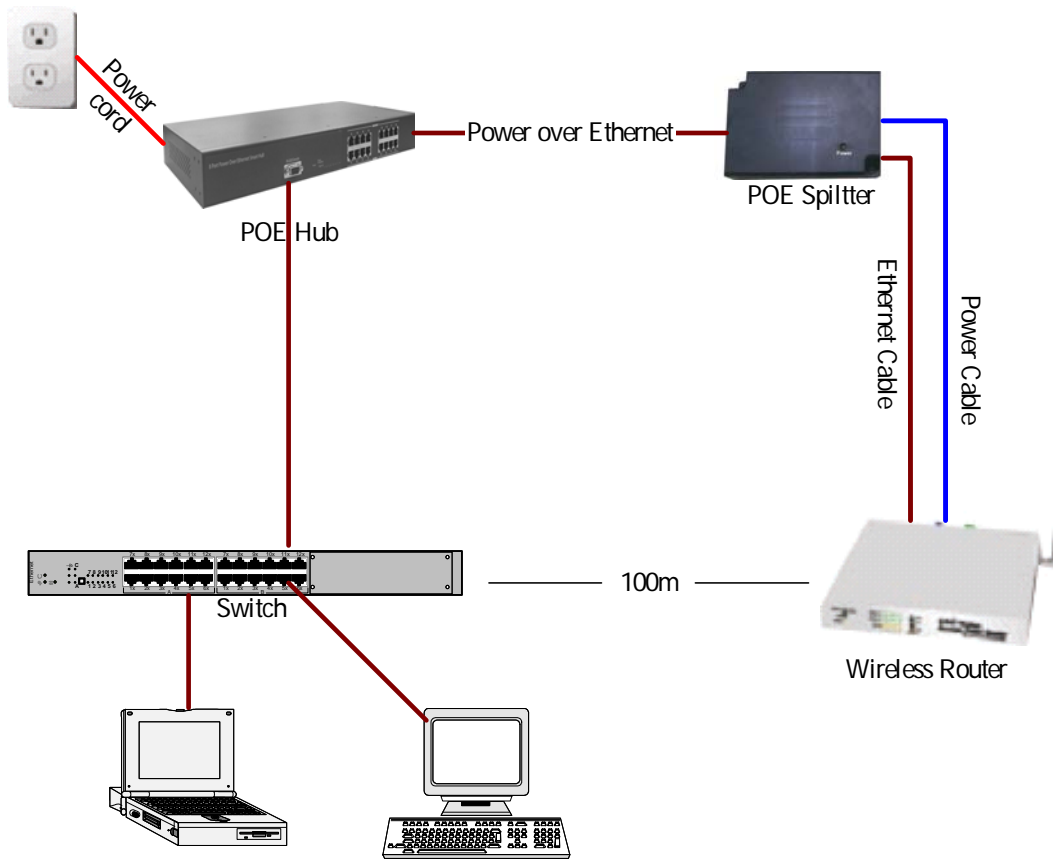
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# 1. Introduction

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Thank you for purchasing MiLAN Technology's MIL-100i Single-Port Power over Ethernet Dual-Voltage Splitter. This PoE Splitter provides data and power to non 802.3af compliant devices. It splits data and power out from a single cat5 cable to Ethernet and DC 5V/2A or 12V/1A power to a network device that is not compliant with IEEE802.3af standard. The following figure shows how the Power over Ethernet Splitter works.



*Figure 1-1. Power over Ethernet Splitter Application*

## Features

- Power Over Ethernet Dual-Voltage Splitter
- IEEE802.3af compliance
- Short circuit protection
- Delivering power and data to equipment
- Plug-and-Play
- Light weight and compact size
- Compatible with Wireless LAN, Bluetooth AP, Web Camera and IP Telephones...etc.
- Regulate output voltage by DIP

## Package Contents

Unpack the contents of the package and verify them against the checklist below.

- MIL-L100s Dual-Voltage Power over Ethernet Splitter
- User Manual
- Warranty Card

If any item is missing or damaged, please contact your local dealer for service.

## 2. Hardware Description

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The MIL-100s Power over Ethernet Splitter has three connection ports, one LED indicator, and one DIP switch for adjusting voltage. Below is a description of the three connections.

- **Data In port:** An RJ-45 Ethernet interface port for data into the PoE Splitter. It is for connecting with a PoE injector or PoE switch.



*Figure 2-1. Data In port*

- **Data Out port:** An RJ-45 Ethernet port that has a fixed RJ-45 cable to connect to the PD Ethernet Interface.
- **Power Out port:** It is a fixed power cable – 5.5 x2.0mm. The Power Out port is for transmitting the power to the PD.



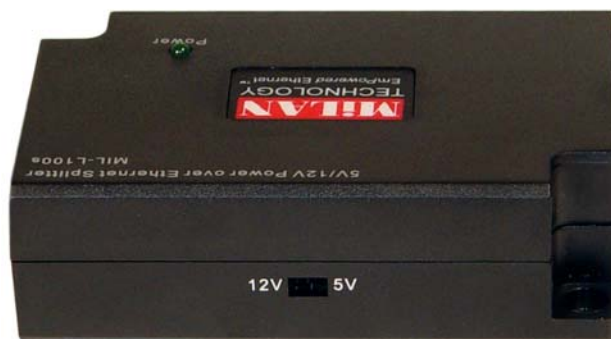
*Figure 2-2. Data Out and Power Out ports*

- **LED indicator:** One Power LED indicator for the system unit. It is located on the topside of the Power over Ethernet Splitter.



*Figure 2-3. System Power LED Indicator*

- **DIPswitch:** It is used for switching the voltage to PD. It provides two voltage values – 12V and 5V. The default is 5V. When you change the DIPswitch, please power off the Power over Ethernet Splitter.



*Figure 2-4. Dip Switch*

# 3. Installation

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To install the MIL-L100s Power over Ethernet Splitter, please follow the steps below:

0. Using RJ-45 cable that is **Data in** port on the Power over Ethernet Splitter to connect 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 that is on the **Data out** port in Power over Ethernet Splitter to connect with the PD (Such as Router, Access Point...etc.)
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 two type of voltage – 12V or 5V. **The default value will be set on 5V.** When you change voltage by DIP switching to 12V, 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 Hub is in **Data in** port.
  - The Power over Ethernet Splitter connect to the PD has two connections – **Data out** and **Power out**.
  - There two types of voltages – 12V or 5V.

## 4. Technical Specification

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

<b>Standard</b>	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX IEEE802.3af Power over Ethernet
<b>Power jack diameter</b>	5.5 x 2.0mm
<b>DIP</b>	DIP 12V: Output voltage 12V DIP 5V: Output voltage 5V(Default)
<b>Connector</b>	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: 5V/2A, 12V/1A (Maximum)
<b>Network Cable</b>	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)
<b>LED</b>	System: power (green)
<b>Power Input</b>	DC 48V
<b>Operating environment</b>	0 °C ~ 40 °C , 90% Humidity (non-condensing)
<b>Dimension</b>	80mm x 55mm x 26mm (L x W x H)
<b>EMI &amp; Safety</b>	FCC Class B, CE, CE/EN60950



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