POE-PD06S

10/100/1000M/Multi Gigabit 802.3bt Class8 to DC12-24V PoE Splitter

User's Guide

FCC Certifications

This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

CE Mark Warning

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE, the essential protection requirement of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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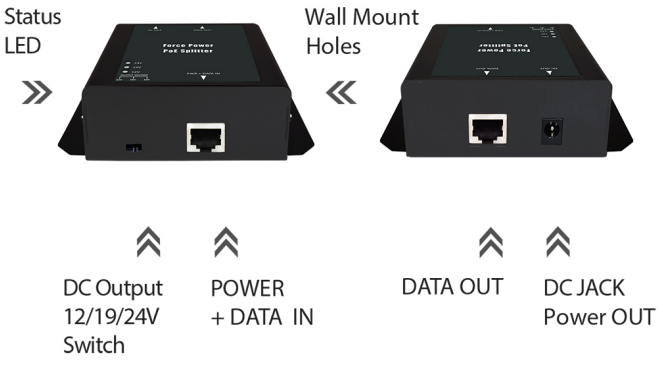
Unpacking Information

Thank you for purchasing our PoE series products. Before installation, please check that your package contains the following items.

Open the shipping cartons of the splitter and carefully unpack its contents. The carton should contain the following items:

1. **POE-PD06S Main Unit x 1**
2. **Inside diameter 2.1mm(PHY) to 2.1mm DC Cable x 1**
3. **Warranty Card x 1**
4. **Quick Installation Guide x 1**

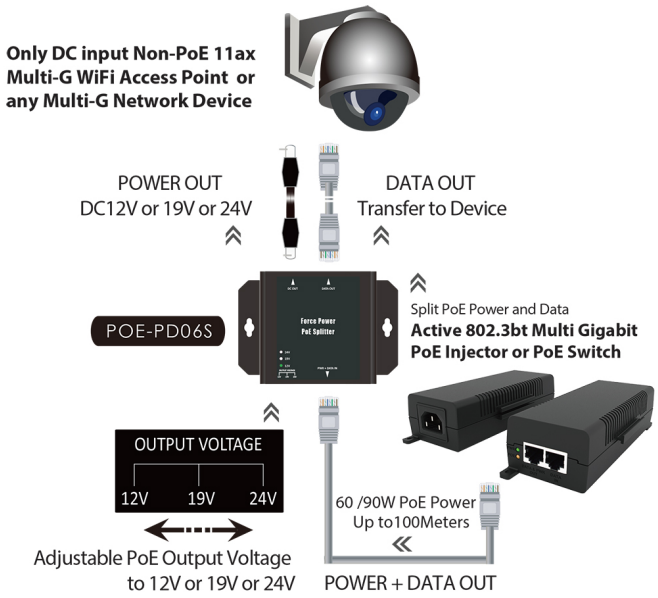
Hardware Overview



Introduction

POE-PD06S is designed to run Multi Gigabit speed PoE cables over long distances. This device splits the PoE signal into separate data and power sources and relays them into non-PoE devices. Supports DC output voltage 12V, 19V and 24V via DIP switch three range adjustable. Using the PoE Splitter, you can take Wireless AP / IP Cameras / VoIP Phone where power outlets are not readily available. It delivers Power over Ethernet to remote devices. The PoE Splitter can be used to compatible any 802.3bt PoE++/ 802.3at PoE+/802.3af PoE switch, Proprietary injector unit to provide small to medium-sized businesses with a complete end-to-end PoE solution.

Product Application



BT PoE Splitter for split Power & Data

Highlight Features

- Complying with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3bz 2500/5000 BASE-T, IEEE 802.3af PoE, IEEE 802.3at PoE+ and IEEE 802.3bt PoE++ standards.
- Supports 1 / 2.5 / 5Gbps Multi Gigabit Ethernet.
- The POE-PD06S can use to connect non-PoE IEEE 802.3bt/at /af powered devices to PoE Switch or PoE injector.
- Supports Output Voltage hot switching for 12VDC, 19VDC, 24VDC three range adjustable.
- When using Active or Passive PoE 90Watts or up as input, the maximum power output: DC24V/80Watts, DC19V/72Watts, DC12V/50Watts output.
- Supports Ethernet PoE to separate to only DC/Power and only Ethernet/Data.
- Supports power reverse acute protection design, and auto restarts to protect possible short circuit, which can reduce the damage caused by the short circuit.
- LED indicators for Power function enable and DC output voltage display of 12V/19V/24V.
- Bundle accessories for inside diameter 2.1 mm (PHY) to 2.1 (PHY) mm DC cable.
- Durable metal case design supports desktop and wall mounting installation.

Installation

Before Installation

If the device is generally DC-receiving and does not support the POE function, the POE-PD06S can easily be used to accept POE source power and apply it separately from DC output power.

The POE-PD06S separates the power out and provides three kinds of DC power output through its DIP switch and its voltage and current shown as below:

DIP Switch :

- **12 VDC / 4.17A (Max)**
- **19 VDC / 3.80A (Max)**
- **24 VDC / 3.33A (Max)**

Cables Installation

POE-PD06S provides a POE-powered solution for non-IEEE 802.3af/at/bt devices.
The setup of the splitter can be performed using the following steps:

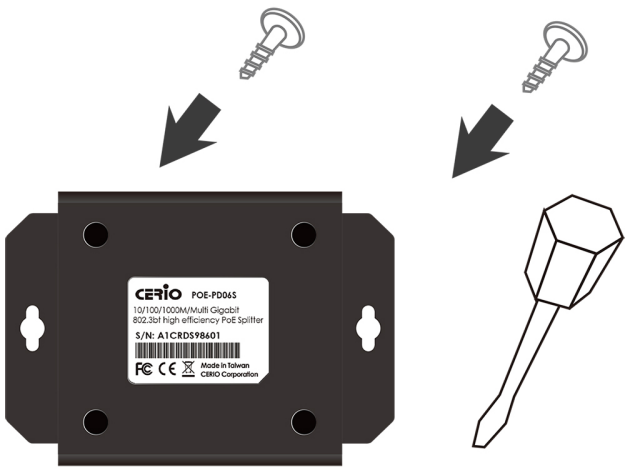
- Connect from "DATA OUT" of POE-PD06S to the RJ-45 port of the remote device.
- Make sure first power source that the POWER+DATA in Port of the splitter is fully connected to the 802.3bt source-powered PoE Injector or PoE Switch.
- Connect the correct DC plug from "DC OUT" of POE-PD06S to the DC port of remote device. (Use a DC cable to connect devices that are to be powered by DC)

  Caution: Please ensure the output voltage is correct for remote device. Otherwise it will damage your remote device.

- Power on the remote device and the LED for voltage status indicator on POE-PD06S will remains on.

Installation

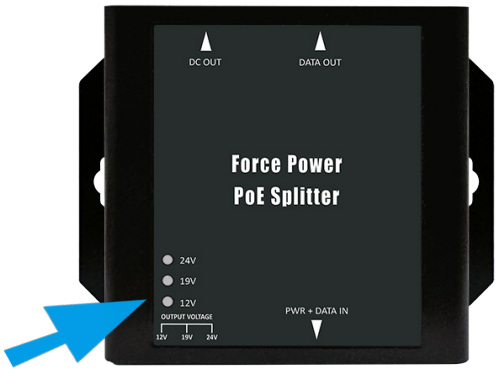
This device can be locked on the wall, (You can use the screw set which pack with product) or it can be put on desktop.



LED Indicator :

Output power switching (12VDC / 19VDC / 24VDC)

LED indicators for Power function enable



LED Definition	● DC 12V output: 12V Light on ● DC 19V output: 19V Light on ● DC 24V output: 24V Light on

Product Specifications

Standards & Hardware Specifications	
Standard	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2500/5000BASE-T IEEE 802.3af Power over Ethernet (PoE) IEEE 802.3at Power over Ethernet (PoE+) IEEE 802.3bt Power over Ethernet (PoE++)
Network Media	10BASE –T: UTP Cat. 3 or up 100BASE-TX : UTP Cat. 5 or up 1G/2.5G/5GBASE-T : UTP Cat.5e or up
Data Transfer Rate	10M/100M/1G/2.5G/5G (Half-duplex), 20M/200M/2G/5G/10G (Full-duplex)
Data PIN	PIN 1/2, 3/6 & 4/5, 7/8
Power PIN	End-span (Type-A): PIN 1/2,3/6 ; Mid-span (Type-B): PIN 4/5,7/8
Data In	Connects PC/HUB/Switch
Ethernet Connector	RJ-45 x1 for Power + Data input RJ-45 x1 for Data output
ESD Protection	ESD electrostatic discharge protection and load discharge anti-surge design

Environmental & Mechanical Characteristics	
Max Power Output	DC24V/80Watts DC19V/72Watts DC12V/50Watts
Power Interface	DC-Jack : Output to any none PoE 12V or 19V or 24V DC in device
Power Requirement	Active or Passive PoE 802.3bt/at/af Power Source
PoE Input Voltage	44V~57V
DC Output Control Range	12V/19V/24V three range adjustable by DIP switch
DC Output Current	Max 12V/4.17A , 19V/3.8A , 24V/3.33A
LED Indicators	DC Output LED x3 : 12V or 19V or 24V
Operating Temperature	0° to 50° C
Storage Temperature	-40° to 70° C
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 90% non-condensing
Dimension	111 x 79 x 35.5mm **(W x D x H)**
Unit Weight	208g
Case of Materials	Metal
Production Location	TW
Certification	FCC, CE, RoHS compatible