FPOE-PD80

4Pair Force Power Gigabit PoE++ Splitter

User's Guide

FCC Certifications

CE Mark Warning

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:
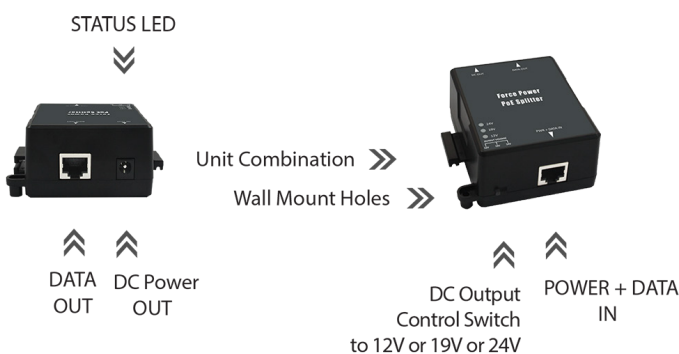
1. **FPOE-PD80 Main Unit x 1**

2. **Inside diameter 2.1 (PHY) mm DC to DC cable x 1**

3. **Warranty Card x 1**

4. **Quick Installation Guide x 1**

Hardware Overview

STATUS LED

Unit Combination ≫

Wall Mount Holes ≫

DATA OUT   DC Power OUT

DC Output Control Switch to 12V or 19V or 24V

POWER + DATA IN

Introduction

FPOE-PD80 4Pair Force Power Gigabit PoE++ Splitter delivers Power over Ethernet to remote devices. **Supports IEEE 802.3af/at standard and compatible with IEEE 802.3bt Power level.** It provides PoE 50-57V Ethernet power + data input to separate to only DC/Power output up to 80Watt and only Ethernet/Data output. **And DC output voltage switchable to 12V or 19V and 24V.** This Force High-Power splitter allows a non-compliant device to upgrade to PoE, it is used to deploy remote non-PoE device with no nearby AC outlets such as latest WiFi 6 generation 802.11ax WiFi AP, PoE IP Speed Dome PTZ CAM, industrial PC and remote digital signage display..etc.

Product Application
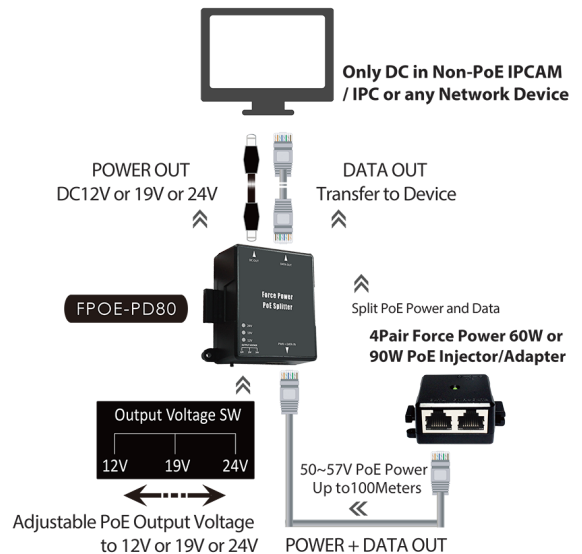
Force Power PoE Splitter for split Power & Data

Highlight Features

➢ Complying with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3af, IEEE 802.3at standard and compatible with IEEE 802.3bt Power level

➢ Supports 10/100/1000Mbps Gigabit Ethernet

➢ It can use to connect non-PoE compliant devices to an PoE injector or PoE switch

➢ Supports Output Voltage hot switching for 12VDC/19VDC/24VDC three range adjustable

➢ Max Power Output after split power & data : 80Watt(24V) 、 75Watt(19V) and 50Watt(12V)

➢ Supports Ethernet PoE to Separate to only DC/Power and only Ethernet/Data.

➢ Bundle accessories for inside diameter 2.1 mm(PHY) to 2.1 (PHY) mm DC cable

➢ LED indicators for DC output voltage display of 12V/19V/24V

➢ Supports desktop or wall mounting installation and multiple units combination for easy to bundles organize the Ethernet cables

Installation

Before Installation

If the device is generally DC-receiving and does not support the POE function, the FPOE-PD80 can easily be used to accept POE source power and apply it separately from DC output power.

The FPOE-PD80 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 / 3.94A (Max)**
- **24 VDC / 3.33A (Max)**

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

Cables Installation

FPOE-PD80 provides a POE-powered solution for non-PoE devices. The setup of the splitter can be performed using the following steps:

- Connect from "DATA OUT" of FPOE-PD80 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 PoE source-powered PoE Injector or PoE Switch.
- Connect the correct DC plug from "DC OUT" of FPOE-PD80 to the DC port of remote device. (Use a DC cable to connect devices that are to be powered by DC)
- Power on the remote device and the LED for voltage status indicator on FPOE-PD80 will remains on.
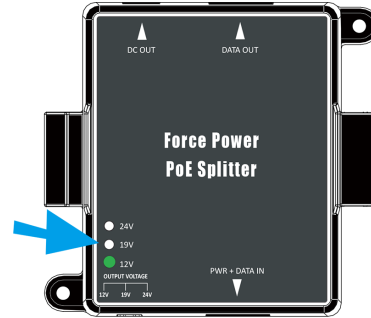
Units Combination

This device can be locked on the wall, **(Does not have screw**

attachment , you must prepare it yourself) or it can be

combined with multiple units for easy to bundles organize the

Ethernet cables.
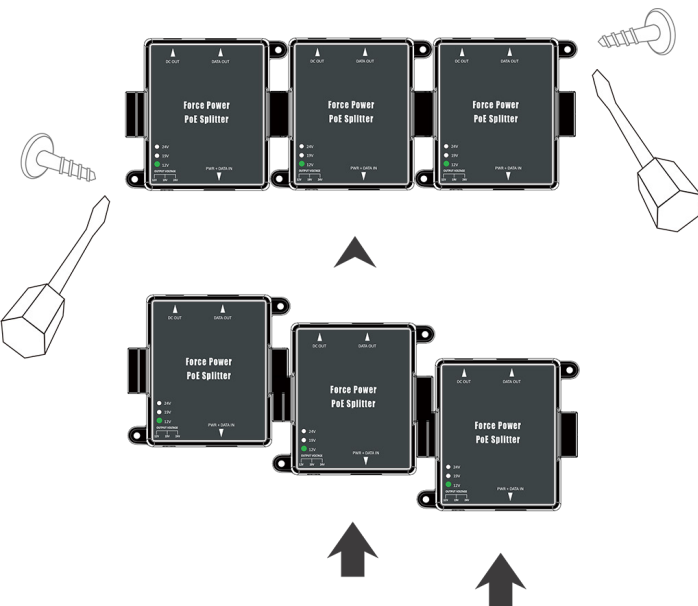
LED Indicator :

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

Notice: Cable and Current-Resistance Loss
DC 24V @ 100Meter : 12.50% with Cat.6 Cable
DC 19V @ 100Meter : 13.33% with Cat.6 Cable
DC 12V @ 100Meter : 14.00% with Cat.6 Cable

Product Specifications

Standards & Hardware Specifications	
Standard	IEEE802.3/3u 10BASE-T/100BASE-TX IEEE 802.3ab 1000BASE-T IEEE802.3af Power over Ethernet (PoE) IEEE802.3at Power over Ethernet (PoE+) Compatible to IEEE 802.3bt Power Level (PoE++)
Network Media	10/100BASE-T/TX : UTP Cat. 5 or up 1000BASE-T: UTP Cat. 5 or up
Data Transfer Rate	10/100/1000Mbps (Half-duplex), 20/200/2000Mbps (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
Ethernet Connector	RJ-45 x1 for Power + Data input RJ-45 x1 for Data output
ESD Protection	Over Voltage protection &Short Circuit Protection
Environmental & Mechanical Characteristics	
Max Power Output	80Watt(DC 24V Output),75Watt(DC 19V Output) 50Watt(DC 12V Output)
Power Interface	DC-Jack
Power Requirement	50~57V PoE Power Source
PoE Input Voltage	50V~57V
DC Output Control Range	12V/19V/24V three range adjustable by DIP switch
DC Output Current	24V/3.33A , 19V/3.94A, 12V/4.17A
LED Indicators	DC Output LED x3 : 12V or 19V or 24V
Operating Temperature	0° to 55° C
Storage Temperature	-40° to 70° C
Operating Humidity	10% to 90% non-condensing
Storage Humidity	5% to 90% non-condensing
Dimension	84.5 x 80 x 39.5mm (W x D x H)
Unit Weight	99.8g
Case of Materials	ABS
Production Location	TW Only
Certification	FCC, CE, RoHS-compliant