FPOE-MPD80

4Pair Multi Gigabit 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.

Company has an on-going policy of upgrading its products and it may be possible that information in this document is not up-to-date. Please check with your local distributors for the latest information. No part of this document can be copied or reproduced in any form without written consent from the company.

Trademarks:
All trade names and trademarks are the properties of their respective companies.

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:

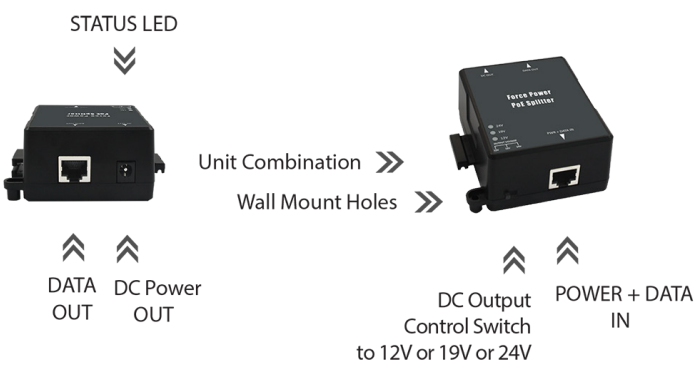
1.FPOE-MPD80 Main Unit x 1

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

3.Warranty Card x 1

4.Quick Installation Guide x 1

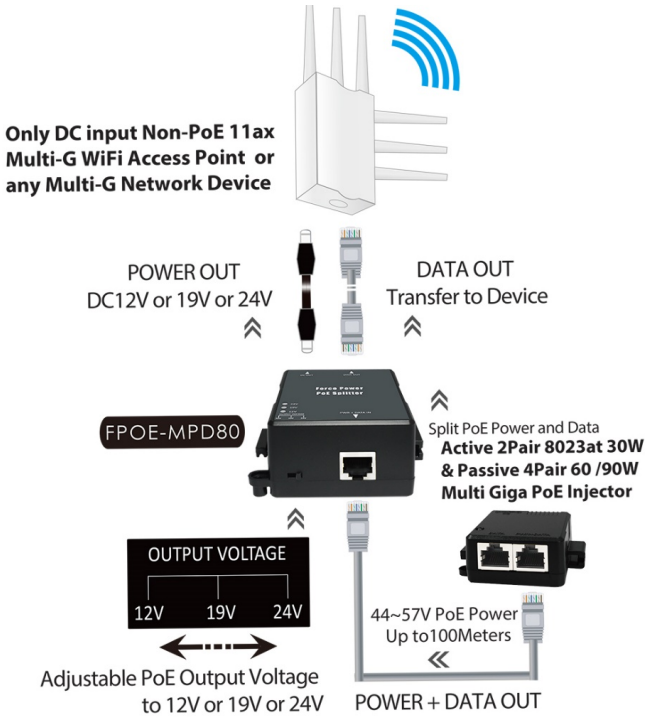
Hardware Overview



Introduction

FPOE-MPD80 4Pair Multi Gigabit PoE+ Splitter provides **1 / 2.5 / 5Gbps Multi Gigabit** RJ45 Ethernet connection ability and delivers Power over Ethernet to remote devices. **Supports IEEE 802.3at / 802.3af Active POE+ and Passive POE+ Power over Ethernet design.** It provides PoE 44-57V Ethernet power + data input to separate to only DC/Power and only Ethernet/Data output. It 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 supper-speed Multi-Giga WiFi AP, Multi-Giga Switch...etc.

Product Application



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 2500/5000BASE-T, IEEE 802.3at PoE+ / 802.3af PoE.
- Supports 1 / 2.5 / 5Gbps Multi Giga RJ45 Ethernet Connection
- 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
- In the case of IEEE 802.3af/at active POE configuration, the maximum power output up to 27Watts and in the case of passive POE configuration, the maximum power output up to 80Watt (24V), 75Watt (19V) and 50Watt (12V) after split power and data.
- 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-MPD80 can easily be used to accept POE source power and apply it separately from DC output power.

The FPOE-MPD80 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)**

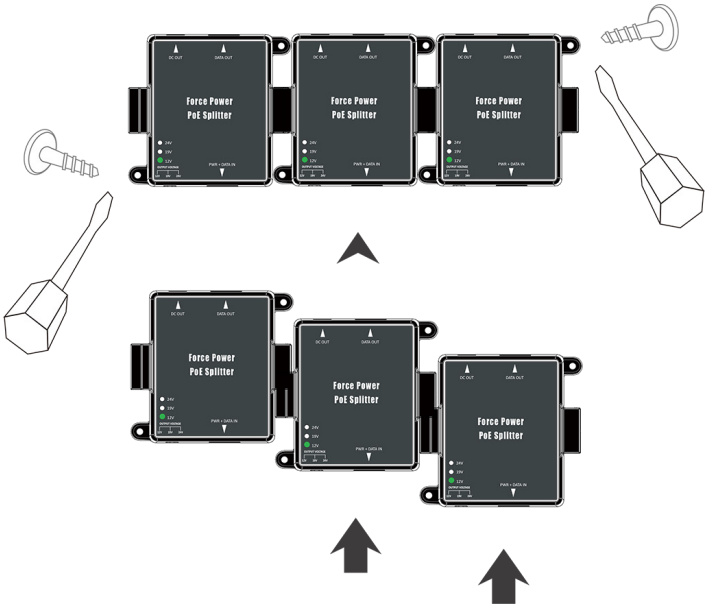
Caution: Please ensure the output voltage is correct for remote device. Otherwise it will damage your remote device.

Cables Installation
FPOE-MPD80 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-MPD80 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-MPD80 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-MPD80 will remains on.

Units Combination

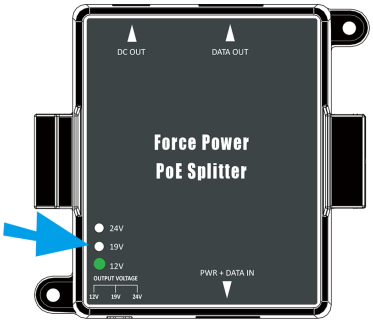
This device can be locked on the wall, **(Does not have screw attachment , you must prepare it yourself)** or it can be combined with multiple units for easy to bundles organize the Ethernet cables.



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 IEEE 802.3bz 2500/5000BASE-T IEEE802.3af Power over Ethernet (PoE) IEEE802.3at Power over Ethernet (PoE+)
Network Media	100BASE-TX: UTP Cat.5 or up 1G/2.5G/5GBASE-T : UTP Cat.5e or up
Data Transfer Rate	100M/1G/2.5G/5G (Half-duplex), 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
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	Active POE 802.3at : Up to 27Watts Passive POE : Up to 80Watts
Power Interface(Output)	DC-Jack : Output to any none PoE 12V or 19V or 24V DC in device
Power Requirement	Standard Active 802.3af/at PoE Power Source or Non-standard Passive Max to 90W PoE 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/3.94A, 24V/3.33A
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	100.2g
Case of Materials	ABS
Production Location	TW
Certification	FCC, CE, RoHS compatible