

FPOE-DMG-EZW

DC12-56V Multi Gigabit Wide Temperature/Voltage to
4Pair 90Watt PoE++ Adapter



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.

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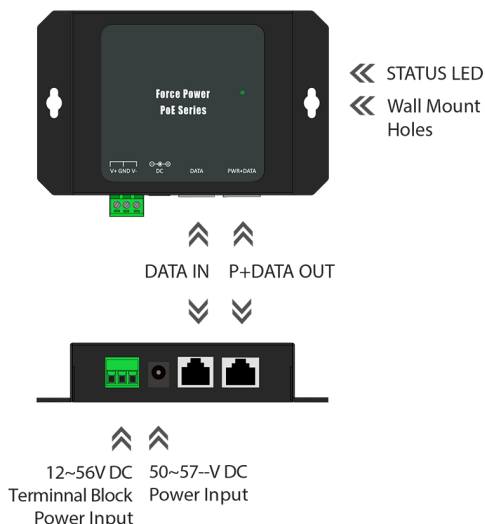
Unpacking Information

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 unit and carefully unpack its contents. The package should contain the following items:

1. FPOE-DMG Main Unit x 1
2. PoE Kit x1
3. Inside diameter 2.1(PHY) mm DC to DC cable x1
4. Quick Installation Guide x 1
5. Warranty Card x 1

Hardware Overview



Introduction

CERIO FPOE-DMG-EZW is a Passive type DC12-56V Multi Gigabit Wide Temperature /Voltage to 4Pair 90Watt PoE++ Adapter supports wide range DC 12-56V input voltage. It can automatically boost and conversion to the best transmission performance PoE 56V output. And the hardware design for PoE output power safety has a max. limit of 90 Watt. For the environment only available with 12/24/37.5/48V power voltage configuration, it automatically boosted to PoE 56V output to PD device through the screw terminal block power input, it provides the best and economical solution.

Functionality

CERIO FPOE-DMG-EZW is a great ideal for the application of vehicle power system. Ex. fixed or mobile batteries, solar or power engine combined independent power systems etc. When the environmental input voltage range is limited to below 55V and over 12V, the **POE-DMG-EZW** can be used to boost voltage to the best transmission performance and compatible with IEEE 802.3bt PoE Class8 and backward PoE 56V power level output to PD device through the network cable. It's a very convenient and economical solution. The applications include 12V or 24V or 48V battery system/solar system and automotive markets, such as 24V BUS, Railway transportation or 48V power system which needs to be converted to PoE 56V power output to the powered devices, such as Multi-Gigabit PoE IP cameras, PoE video displays, PoE wireless base stations, etc.

Installation

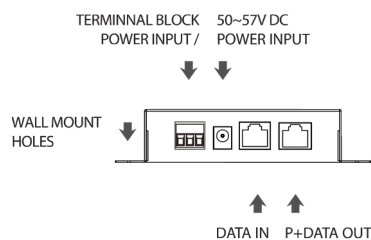
Before Installation

CERIO FPOE-DMG-EZW is a great ideal for the application of vehicle power system. You can have two choices for power input methods to power your FPOE-DMG-EZW. As shown in the figure:

Multi Power Input:

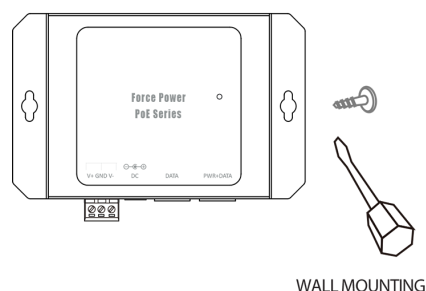
■ **Screw Terminal Block In**
(For boost voltage system)

■ **DC In**
(For PoE constant voltage input)



Wall mounting installation

This device can be locked on the wall. (Screws are included in the package)



	Standards & Hardware Specifications
Standard	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBASE-T 10BASE -T: UTP Cat. 3 or up 100BASE-TX: UTP Cat. 5 or up 1000BASE-T: UTP Cat. 5 or up 2.5G/5G BASE-T: UTP Cat. 5e or up
Network Media	10M/100M/1G/2.5G/5G (Half-duplex), 20M/200M/2G/5G/10G (Full-duplex)
Data Transfer Rate	
Data PIN	PIN 1/2, 3/6 & 4/5, 7/8
Power PIN	PIN 1/2, 3/6 or 4/5, 7/8(Power + Data Pin)
PoE Type	Passive POE Output: RJ45 Passive 802.3bt PoE Out
Power Interface	Input: Screw Terminal Block In (Main PWR input using for boost voltage system) & DC In (Extra PWR input using for PoE constant voltage input)
Ethernet Connector	RJ-45 x1 for Power + Data input RJ-45 x1 for Data output
ESD Protection	Supports ESD (Electro Static Discharge) Over Voltage protection and Short Circuit Protection
	Environmental & Mechanical Characteristics
Power Output	4Pair 90Watt (Max)
Power Requirement	12~57V Power source Overall wide voltage range : DC 12 ~ 57V Auto booster voltage range : DC 12 ~ 55V (When using STB input for auto boosted voltage and conversion to compatible 802.3af/at standard PoE 56V output)
Input Voltage	PoE constant voltage range : DC 50~57V (When using DC Input)
Max Input Current	DC 12V/5A , 24V/3.75A, 37.5V/2.4A, 48V/1.875A
LED Indicators	System: Power (Green)x1
Operating/Storage Temperature	-40° to 75° C / -40° to 85° C
Operating/Storage Humidity	5% to 90% non-condensing
Dimension	130 x 27 x 82mm (W x H x D)
Unit Weight	230g
Form Factor	Desktop/Wall mounting installation
Case of Materials	Metal
Production Location	TW
Certification	FCC, CE, RoHS-compliant