

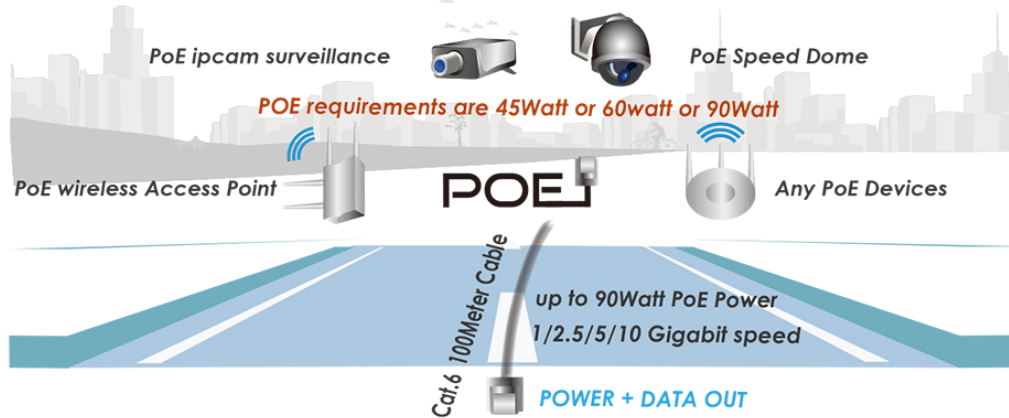
# POE-DMG-ZW

DC12-56V MultiG/10Gigabit Wide Temperature/Voltage to 90Watt PoE++ Adapter(Active Type)

EAN Code : 4712757150353



CERIO POE-DMG-ZW DC12-56V MultiG/10Gigabit Wide Temperature/Voltage to 90Watt PoE+ Adapter supports IEEE 802.3af/at/bt Power Over Ethernet Standard. It's an Active PoE voltage booster PoE++ Injector. It supports **wide range DC 12-56V input voltage** and provides 2 Ethernet ports, it can automatically boost and conversion to the best transmission performance 802.3bt standard PoE 56V output. The max. PoE output power up to 90Watt. For the environment only available with 12/24/37.5/48V power voltage configuration, it automatically boosted to 802.3bt standard PoE 56V output to PD device through the screw terminal block power input, it provides the best and economical solution. It is a high-level Wide Temperature/Voltage POE++ Adapter solution.



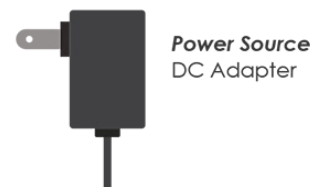
**Multi-input interfaces-2 :**  
Plug through terminal block selection, for 12~56V input voltage



**Multi-input interfaces-1 :**  
Plug through DC jack selection for 50~57V input voltage



**Voltage boosted to POE 56V**



90Watt power adapter



Extra applications 12V/24V/48V battery for Car bus/Solar energy and 24V/37.5V/48V power system for train/EMU tram.

## Highlight Features

- Complying with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3bz 2.5G/5G BASE-T, IEEE 802.3an 10GBASE-T, IEEE 802.3af PoE, IEEE 802.3at PoE+ and IEEE 802.3bt PoE++ standards.
- Supports 5-Speed (100M/1G/2.5G/5G/10G) Ethernet connection ability.
- Supports a wide range input voltages of 12~56V. It can be automatically boosted and converted to 802.3bt standard PoE 56V power output.
- Supports two power interface: Supports screw terminal power input for power boost system used and extra DC power input for PoE constant voltage used.
- Auto detect PD power supply is powered by End-span (Type-A) or Mid-span (Type-B) power pin, and LED indicators shows power pin type.
- Supports IEEE 802.3af/at/bt POE standards and supports standard Active PSE/PoE Power Over Ethernet function and Max PoE Output up to 90Watt.
- Supports -40° ~ 75° C wide temperature design which can withstand various high and low temperature environmental applications.
- Provides a durable and reliable metal housing design.
- Over Current Protection & Short-circuit Protection.
- Plug-and-Play, requires no configuration.
- Supports desktop, wall mounting installation.

## Functionality

**CERIO POE-DMG-ZW** 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-ZW** can be used to boost voltage to the best transmission performance 802.3bt standard PoE 56V 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 802.3bt standard PoE 56V power output to the powered devices, such as PoE IP cameras, PoE video displays, PoE wireless base stations, etc.

## Durable Metal Casing and Wide Temperature Design

**CERIO POE-DMG-ZW** provides an industrial durable and high-reliability metal case and supports a wide range temperature -40° ~ 75° C design. It supports wall mounting installation, which fully meets the application requirements in various environments. The wide temperature design allows the equipment to operate stably in extremely low and extremely high temperatures, making it the best helper for enterprises.

## Long Distance Application

**CERIO Wide Temperature/Voltage to 90Watt PoE++ Adapter** can provide both data and power for distances of up to 100 meters (328 feet) from the power source when using CAT 5e or up cabling.

## ESD Protection

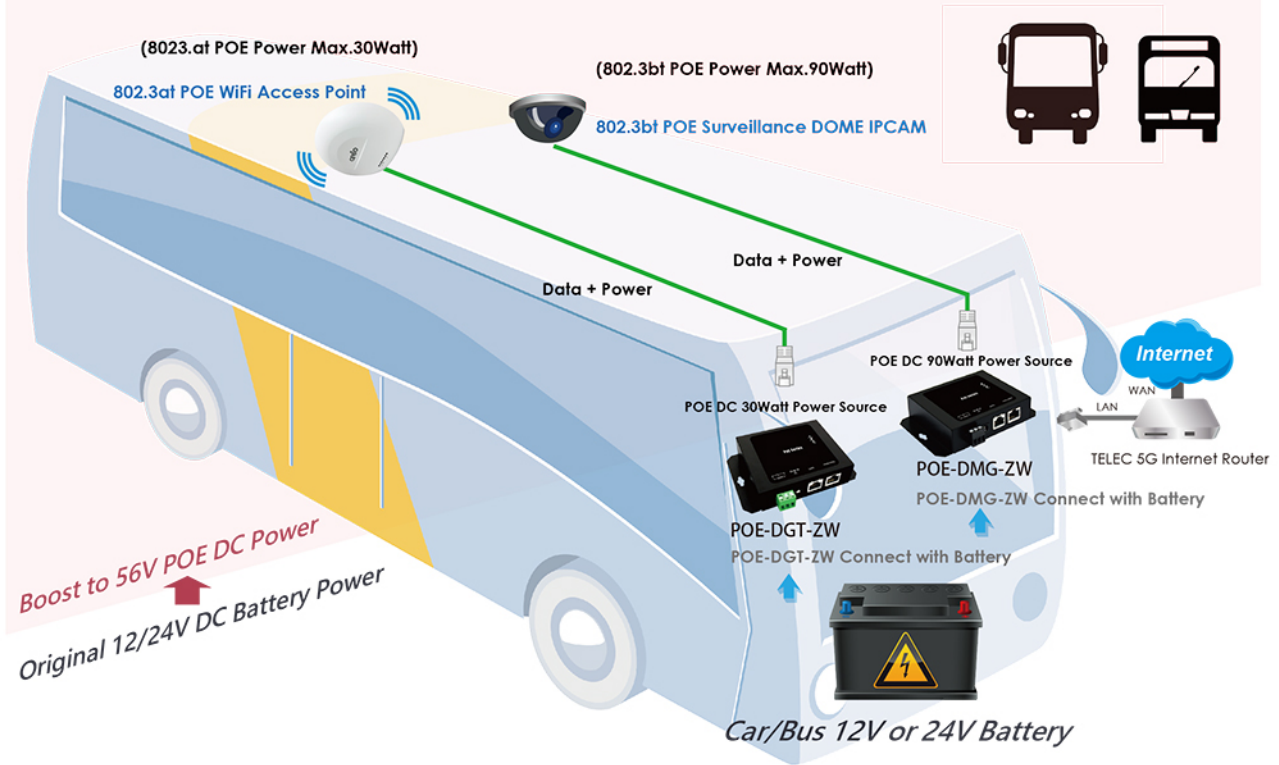
The **POE-DMG-ZW** supports ESD, Electro Static Discharge protection includes Over Voltage protection and Short Circuit Protection ensuring device safety.

## Easy installation

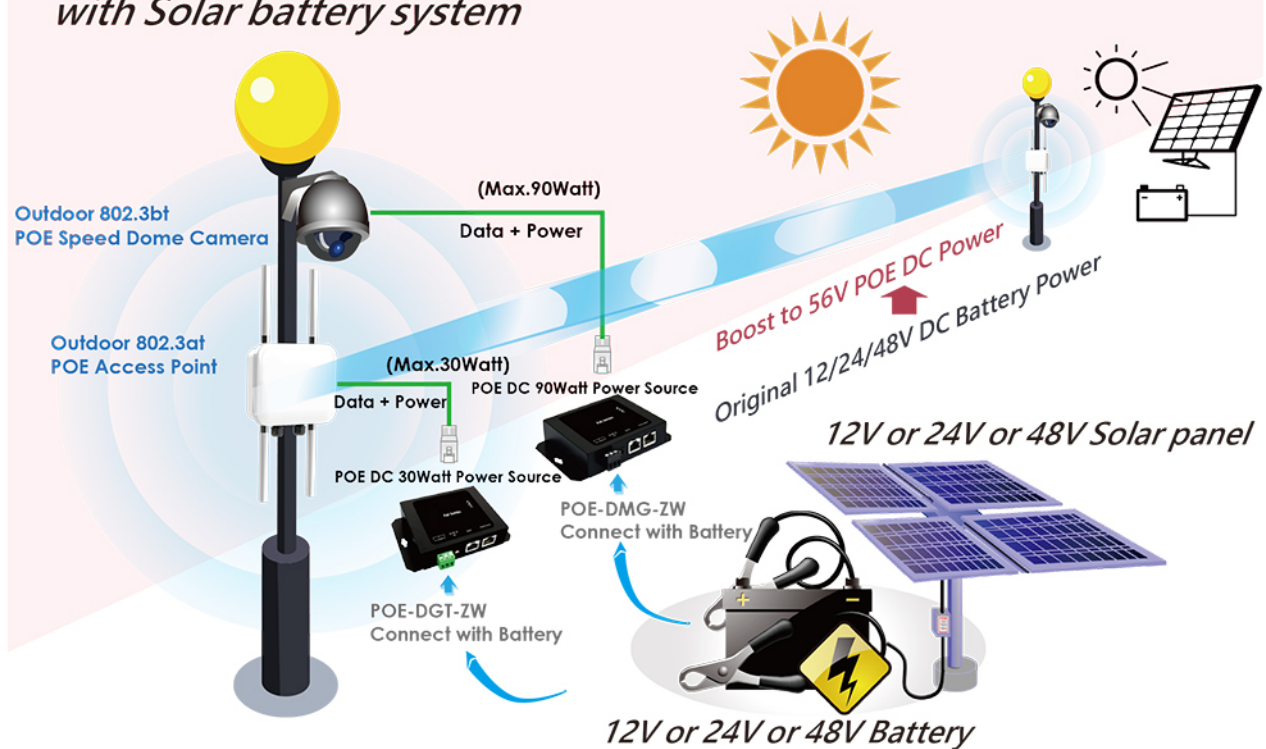
Plug-and-Play, requires no configuration.

**CERIO POE-DMG-ZW** can receive power systems, such as 12V/24V/48V fixed or mobile battery or Solar panel through the Screw Terminal Block, then boost and conversion to 802.3bt standard PoE 56V output to the PoE PD devices, such as PTZ IPCAM, WiFi7 AP etc.

### The main application method for Boost a POE injector



### The main application method for Boost a POE injector with Solar battery system

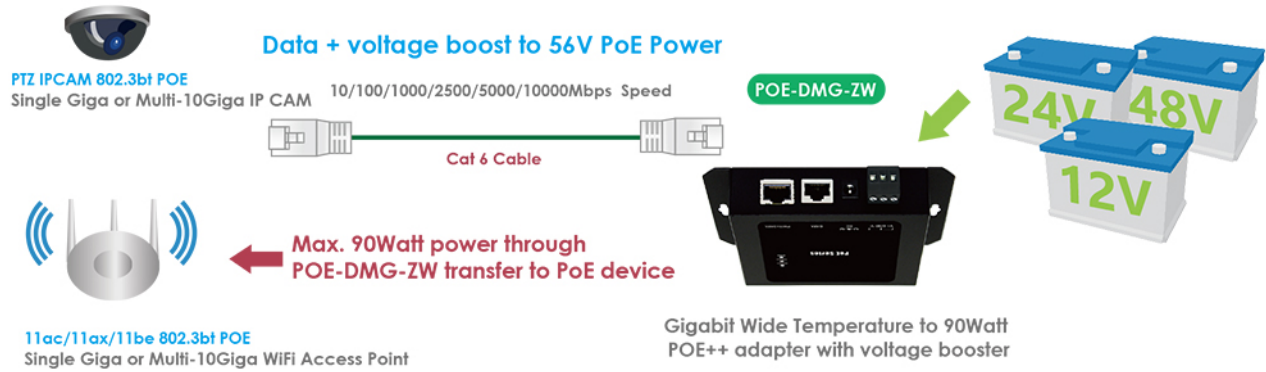


**CERIO POE-DMG-ZW** can use as a boost adapter for power over Ethernet application, also can be used with CERIO POE splitter which can receive network power + data, then separate to only DC/Power output and only Ethernet/Data output. It supports 12V, 19V and 24V DC output adjustable via DIP switch. For network devices that only support DC Input, it provides an economical and affordable solution.

### The main application method of Boost adapter : as a POE injector

With POE for 1/2.5/5/10Gbps  
Multi Gigabit PTZ IP CAM/AP Devices

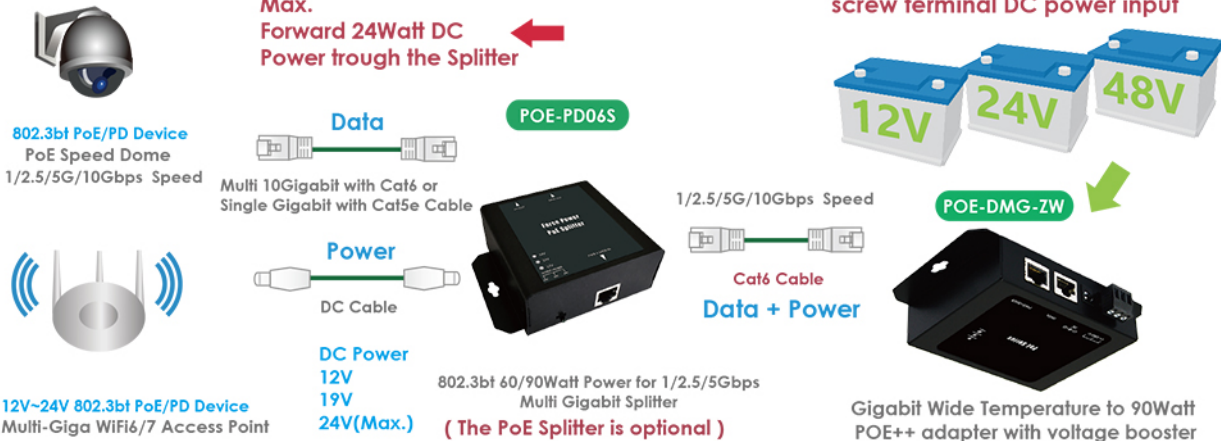
Support 12-56V wide voltage two-pin screw terminal DC power input



### Extra application method of Boost adapter : Power Split to DC equipment

12V to 24V DC Input Non-POE Gigabit Device

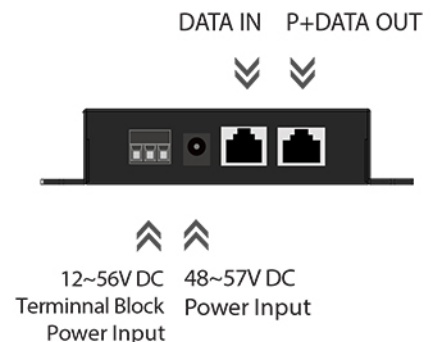
Support 12-56V wide voltage two-pin screw terminal DC power input



## Hardware Overview



PoE Type Display LED  
Midspan(B-Type) / RJ45 4,5,7,8 PIN  
Endspan(A-Type) / RJ45 1,2,3,6 PIN  
Wall Mount Holes



### Standards & Hardware Specifications

#### Standard

IEEE 802.3 10BASE-T  
 IEEE 802.3u 100BASE-TX  
 IEEE 802.3ab 1000BASE-T  
 IEEE 802.3bz 2.5G/5G BASE-T  
 IEEE 802.3an 10GBASE-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  
 1000BASE-T: UTP Cat. 5 or up  
 2.5G/5G BASE-T : UTP Cat.5e or up  
 10GBASE-T : UTP Cat.6a or up

#### Data Transfer Rate

10M/100M/1G/2.5G/5G/10G (Half-duplex),  
 20M/200M/2G/5G/10G/20G (Full-duplex)

#### PoE Type

Active POE

#### 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 : Data  
 RJ-45 x1 : Power + Data

#### Power Interface

Output: RJ45 Active 802.3bt PoE Out  
 Input: Screw Terminal Block In (Main PWR input using for boost voltage system) & DC In (Extra PWR input using for PoE constant voltage input)

#### ESD Protection

Supports ESD (Electro Static Discharge)  
 Over Voltage protection and Short Circuit Protection

### Environmental & Mechanical Characteristics

#### Max PoE Power

90Watt

#### Power Requirement

12~57V Power source

#### Input Voltage

**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 802.3bt standard PoE 56V output)

**PoE constant voltage range :** DC 48~57V (When using DC Input)

#### LED

System (Power) : Green x 1

PoE: End-span (Green) , Mid-span (Green ) x 2

#### Operating Temperature

-40° to 75° C

#### Storage Temperature

-40° to 85° C

#### Operating Humidity

5% to 90% non-condensing

#### Storage Humidity

5% to 90% non-condensing

#### Dimension ( W x D x H )

130 x 82 x 27mm

#### Weight ( kg )

TBD

#### Form Factor

Desktop/Wall mounting installation

#### Case of material

Metal

#### Production Location

TW

#### Certifications

FCC ,CE, RoHS compatible

### Package Contents

#### Contents

<b>POE-DMG-ZW Main Unit</b>	x 1
Quick Installation Guide	x 1
Warranty Card	x 1