

# FPOE-MG-E90

**4Pair 90Watt Force Power Multi Gigabit Edge PoE Adapters**

EAN Code : 4712757159189



The **CERIO FPOE-MG-E90** is a **Passive type Multi Gigabit Edge PoE Adapters**. It provides **DC 50-57V** over Ethernet cables. Provides a reliable hardware solution for demanding of **802.3bt Type3/Class5 45Watt**、**Class6 60Watt** and **Type4/Class7 72Watt**、**Class8 90Watt PoE power level PoE/PD powered devices**. Simultaneously transmit network data and power to the PD equipment through the 4Pair UTP Ethernet Cable transmission. This Force Power PoE++ Injector series provides entry-level applications.

PoE ipcam surveillance



PoE Speed Dome

POE requirements are 90watt

Any PoE Devices



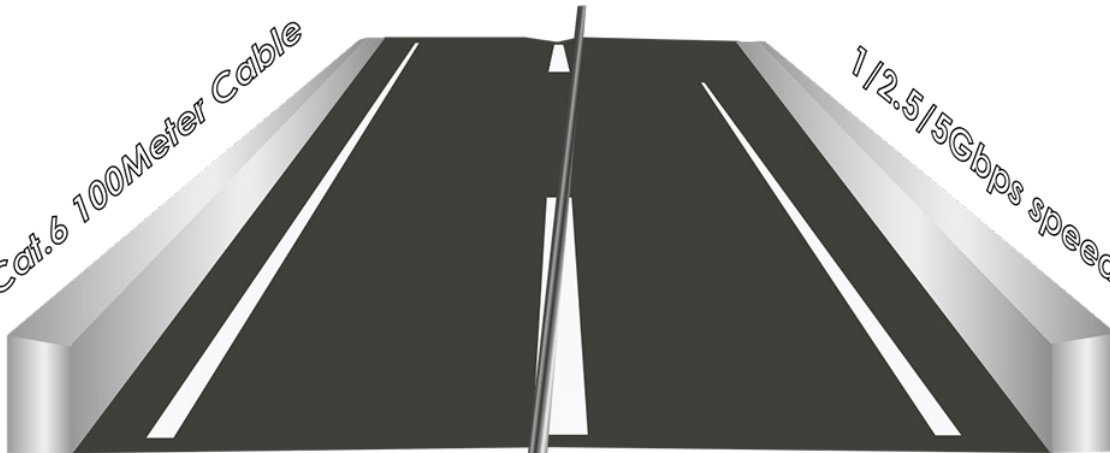
# POE



11ax PoE Access Point

Cat.6 100Meter Cable

1/2.5/5Gbps speed



POWER + DATA OUT

UP TO 90WATT  
POE POWER



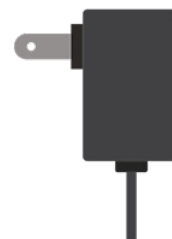
FPOE-MG-E90



Power input interfaces :  
DC jack



Power Source  
DC Adapter



50~57V 60Watt  
power adapter

DATA IN



## Highlight Features

- Supports 1/2.5/5Gbps Multi Gigabit Ethernet and Complying with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE 802.3bz 2.5G/5G BASE-T standard.
- Supports PoE PSE/PD function and provides 802.3bt Type4 Class8 and backward power level for PD device
- Provides Force Power PoE++ output ability, and low cable-loss which can maintain 90Watt PoE power up to 100 meters distance.
- Max Output power up to 802.3bt Type4 Class8 (90Watt) power level.
- Support Ethernet power extension function (PoE Extender): Use the FPOE-MG set and DC to DC power output cable, and connect the PoE network switch to extend the distance between power and data.
- Over Current Protection and Short-circuit Protection.
- Supports desktop, wall mounting installation and multiple units combination easy to use.

## Functionality

**FPOE-MG-E90** Force Power Multi Gigabit PoE++ Injector brings a great deal of convenience benefits to any environments. With latest Force High Power Hardware design through 4Pair UTP Ethernet Cable to delivery both data and power to PD device. It provides 802.3bt Type3/Class5 45Watt 、 Class6 60Watt and Type4/Class7 72Watt 、 Class8 90Watt PoE power level for PD device, such as the "PoE IP Speed Dome PTZ CAM " and "the latest WiFi 6 generation 802.11ax WiFi AP provide a stable high power PoE powered solution. The plug-and-play connection provides a best solution for where power outlets are not readily available and provides a cost-effective solution for high-speed security surveillance (CCTV System) and network planning.

## Long Distance Application

Cerio Force Power Multi Gigabit PoE++ Injector can provide both data and power for distances of up to **100 meters (328 feet)** from the power source (90Watt) and without cable-loss when using CAT 6 or up cabling. And, it supports the PoE Extender function. You can use the DC to DC power output cable to connect to the PoE Switch to extend data and power.

## ESD Protection

Supports ESD, Electro Static Discharge protection includes Over Voltage protection and Short Circuit Protection ensuring device safety.

## Additional Benefits

**FPOE-MG-E90 Edge PoE Adapters** Some additional benefits of Cerio Force Power PoE++ Injector include cost saving, convenience in network planning, and higher reliability.

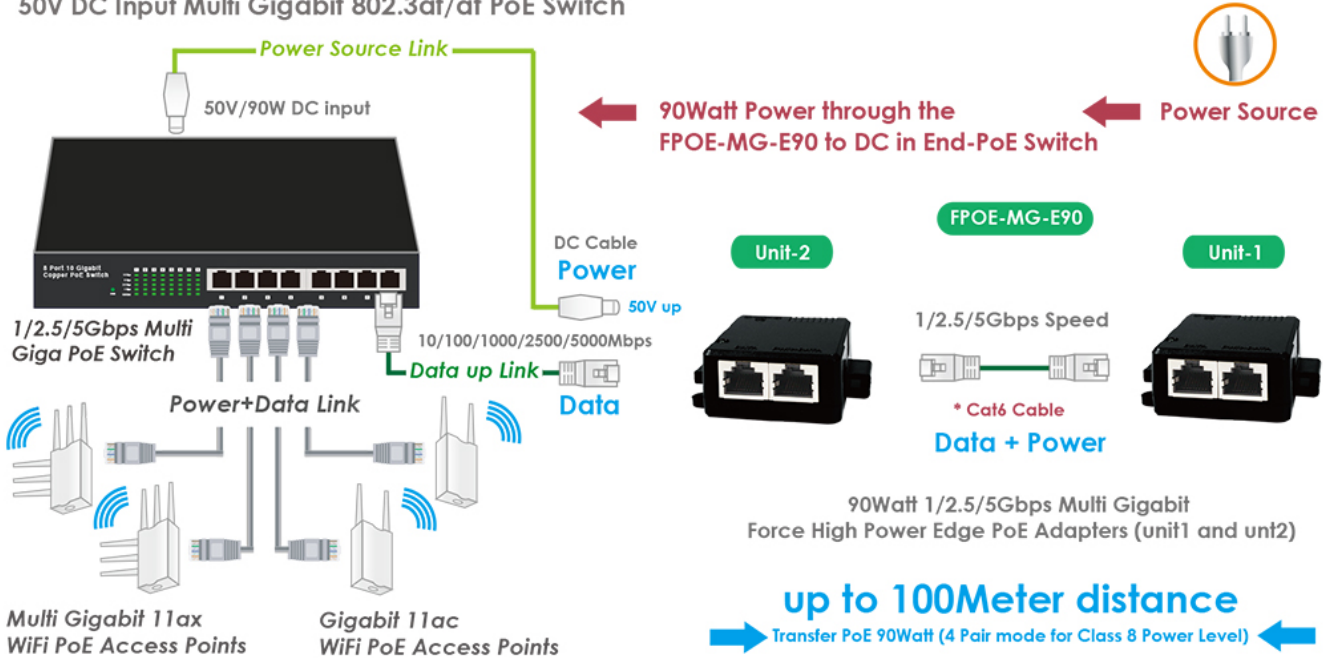
## Easy installation

Plug-and-Play, requires no configuration.

**Product Application**

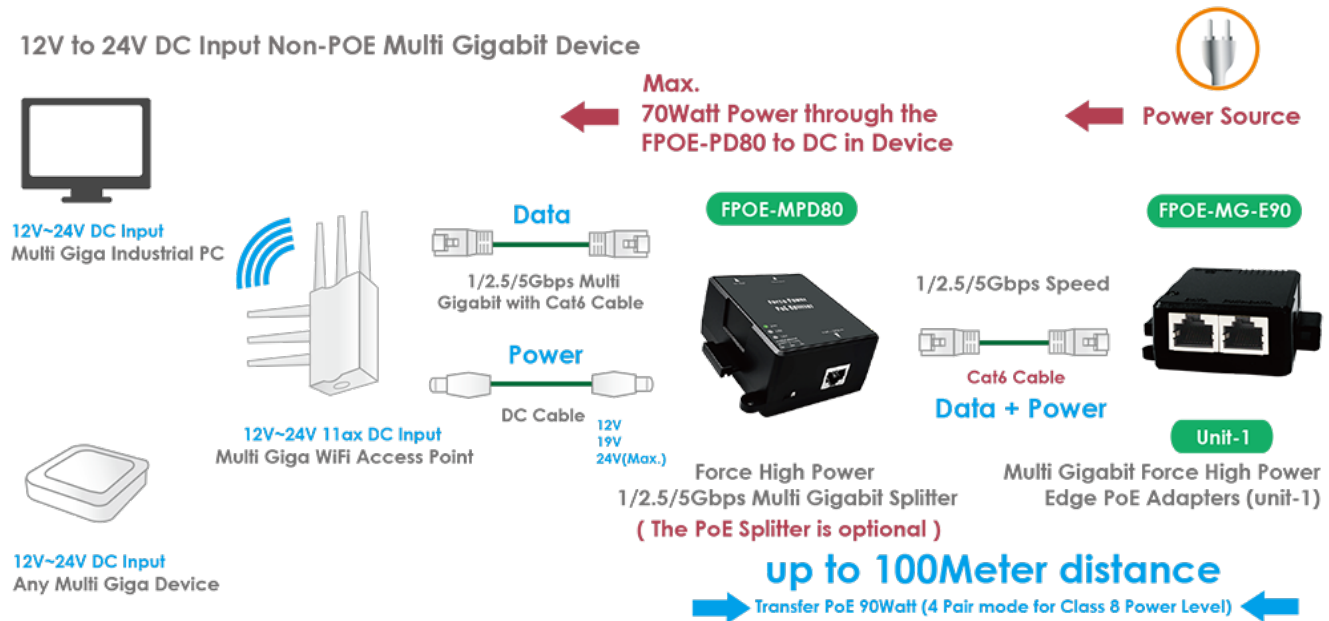
**Force Power Edge PoE Solution Output to 50VDC to End-PoE Switch**

50V DC Input Multi Gigabit 802.3af/at PoE Switch



**Force Power Edge PoE Solution Output to 12-24VDC to End-Device**

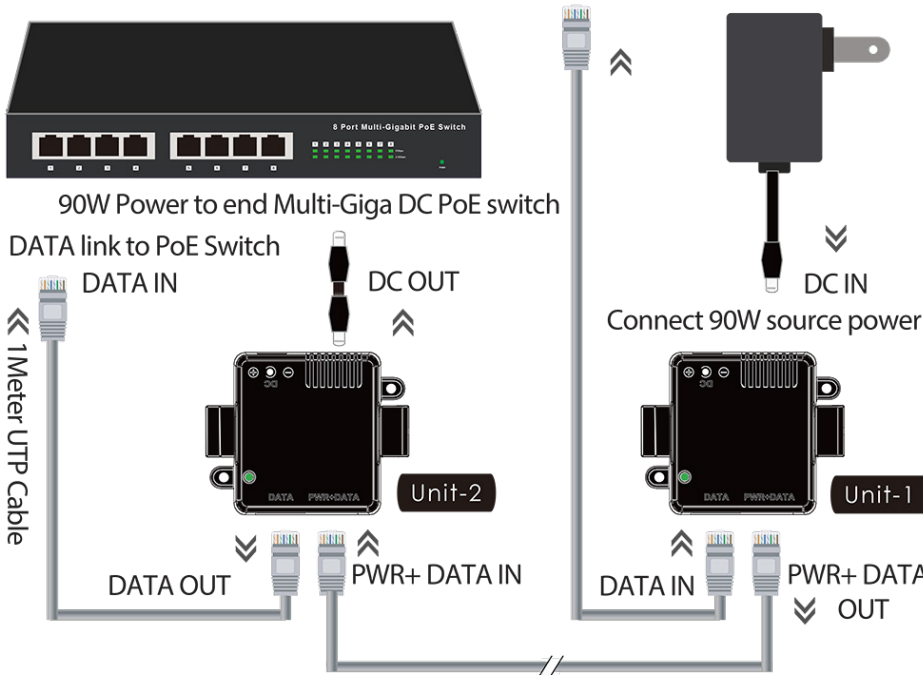
12V to 24V DC Input Non-POE Multi Gigabit Device



\* The force high power splitter allows a non compliant device to upgrade to PoE ,It is used to deploy remote non-PoE devices with no nearby AC outlets.



Connect data uplink from source Multi-Giga switch



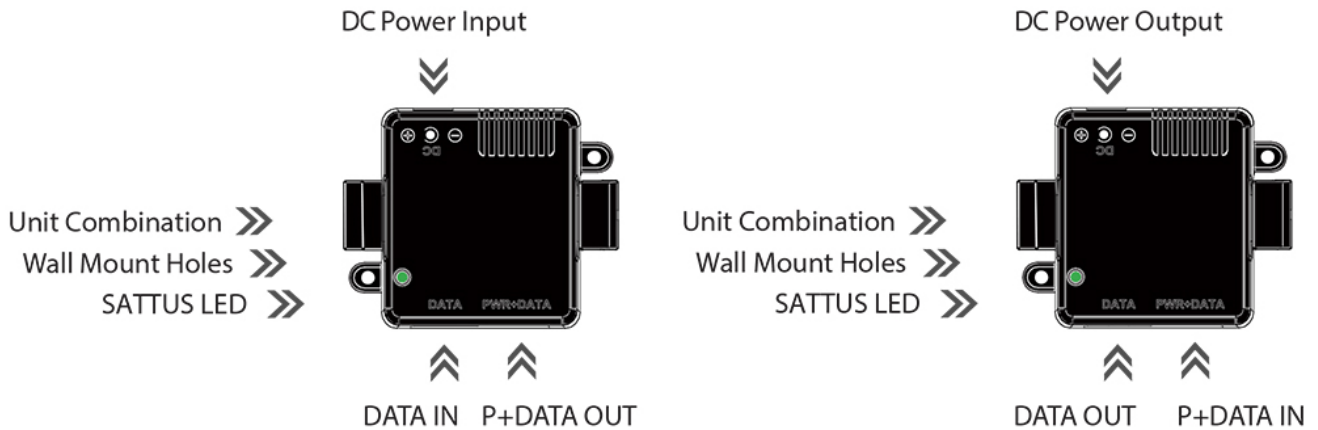
Cat6A, RJ45 UTP Cable 100Meter

**Transfer 90W PoE Power up to 100M distance**

**Hardware Overview**

**Unit-1**

**Unit-2**



### Standards & Hardware Specifications

Standard
IEEE802.3 10BASE-T
IEEE802.3u 100BASE-TX
IEEE 802.3ab 1000BASE-T
IEEE 802.3bz 2.5G/5GBASE-T
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)
PoE Type
Passive 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 : Power + Data
RJ-45 x1 : Data
Power Connector(Interface)
DC Jack
ESD Protection
Supports ESD (Electro Static Discharge)
Over Voltage protection and Short Circuit Protection

### Package Contents

Contents	
<b>FPOE-MG</b> Main Unit	x2
90Watt Power Adapter	x1
Inside diameter 2.1mm(PHY) DC to DC Cable	x1
Quick Installation Guide	x1
Warranty Card	x1

### Environmental & Mechanical Characteristics

Max Power Output	90Watts
Power Requirement	56V 90Watt External Power Supply
Input Voltage	50 ~ 57Volt
Cable and Power Loss	@ 100Meter : Keep power source ability (90Watt) with Cat.6 or up Cable @ 100Meter : “ 14Watt “ with Cat.5e Cable
LED	System LED: Power (Green) x1
Operating Temperature	0° to 55° C
Storage Temperature	-40° to 70° C
Operating Humidity	5% to 90% non-condensing
Storage Humidity	5% to 90% non-condensing
Dimension ( W x D x H )	64.8 x 51.7 x 24mm
Weight ( g )	38g (One unit)
Form Factor	Desktop/Wall mounting / Units Combination
Case of material	ABS
Production Location	TW
Certifications	FCC ,CE, RoHs compatible