

POE-DX90T

90Watt MultiG/10Gigabit DC/Terminal Wide
Temperature PoE Injector



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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Introduction

The **CERIO POE-DX90T** supports IEEE 802.3bt Power Over Ethernet Standard. It's an Active PoE Multi Gigabit PoE Injector supports 2 Ethernet ports and provides DC 48-57V over Ethernet cables. User can select either one to supply power: Through Screw Terminal Block or DC jack. The maximum PoE output power up to 90Watt. The POE-DX90T can simultaneously transmit network data and power to the PD equipment through the UTP Ethernet Cable transmission. It provides durable and reliable metal casing and wide temperature (-40° ~ 75° C) design, also supports wall-mounting installation, which can meet high-standard industrial environment network construction requirements.

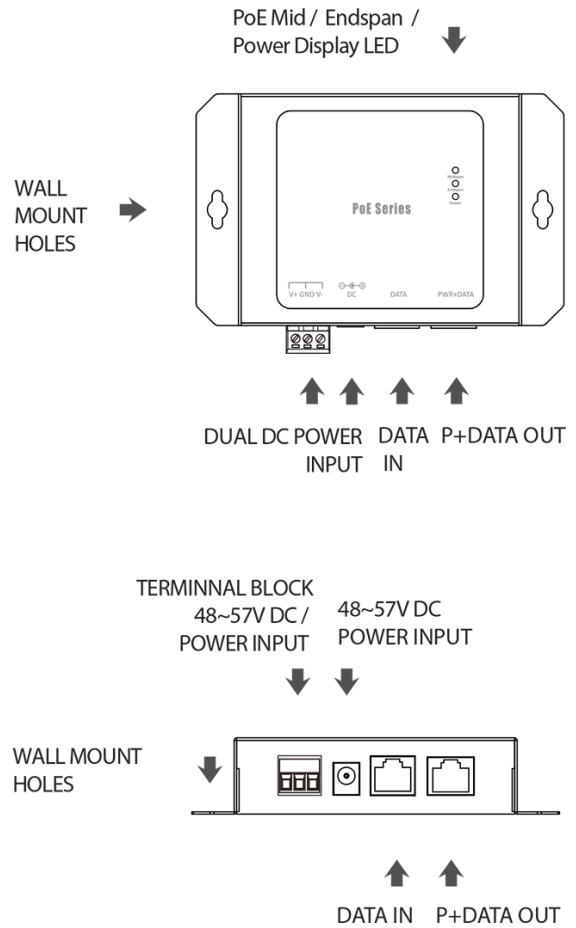
Unpacking Information

Thank you for purchasing our Force Power PoE series products. Before installation, please check that your package contains the following items.

Open the shipping cartons of the PoE Adapters and carefully unpack its contents. The carton should contain the following items:

1. POE-DX90T Main Unit x 1
2. 90 Watt Power Adapter x 1
3. Warranty Card x 1

Hardware Overview



Functionality

CERIO POE-DX90T is designed to supply operational power to network devices such as the latest WiFi 6 generation 802.11ax PoE AP, PoE IP Speed Dome PTZ CAM and surveillance system equipment provide a stable high power PoE powered solution. It greatly simplifies the wiring and deployment process, and brings a great deal of convenience benefits to office and industrial environments. The POE-DX90T with Power over Ethernet devices installed, the system administrator only has to use a single RJ-45 Ethernet cable to carry both power and data to each device. It supports -40° ~ 75° C wide range temperature design provides a comprehensive and cost-effective solution for industrial environments.

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.
- Support PSE / POE Power Over Ethernet function which can provide both data and power for distances of up to 100 meters (328 feet) from the power source when using CAT 6 or up cabling.

- Supports 5-Speed (100M/1G/2.5G/5G/10G) Ethernet connection ability.
- Supports IEEE 802.3bt/at/af POE standards and PoE max Power up to 90Watt (IEEE 802.3bt) bundle with 56V power supply.
- Provide Screw Terminal Block power input and DC In both Power Systems. User can select either one to supply power or it can choice dual power supply as power backup function for the device. (Power failover).
- 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.
- ESD Protection : POE-DX90T supports ESD, Electro Static Discharge protection includes Over Voltage protection and Short Circuit Protection ensuring device safety.
- Plug-and-Play, requires no configuration.
- Supports desktop, wall mounting installation.

Installation

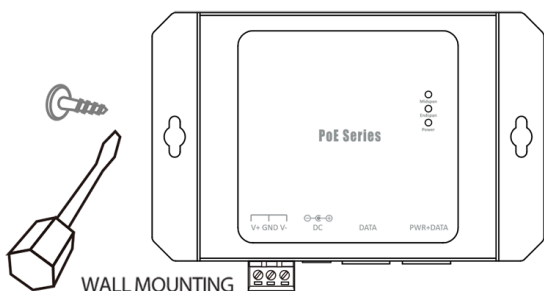
Plug-and-Play, requires no configuration. Plug in the Power Adapter into DC jack. The unit can also be powered with a 48~57V battery through 2 Pin cable plug in to the terminal block. Two RJ 45 cables: plug one in to data port, plug the other in to data + power or PoE port and connect it to the device that needs power over Ethernet cable. **Please connect the grounding at the terminal block for ESD.**

2Pin Power cable plug in



Wall mounting installation

This device can be screwed on the wall, **(Screws are included in the package.)**

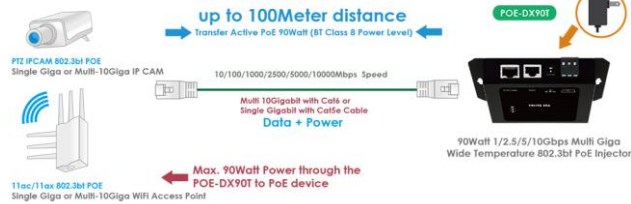


Product Application

Apps1 : BT PoE (PD) Devices

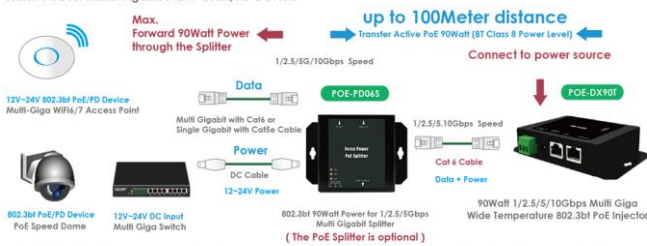
With POE for 1/2.5/5/10Gbps Multi Gigabit PTZ IP CAM/AP Devices

Connect the included power supply



Apps2 : None PoE (BT PD) Devices

None POE for Multi Gigabit PTZ IP CAM/AP Device



* The Multi Gigabit splitter allows a non compliant device to upgrade to PoE. It is used to deploy remote non-PoE devices with no nearby AC outlets.

Specifications

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 : Power + Data RJ-45 x1 : Data
Power Interface	Output: RJ45 Active 802.3bt/at/af PoE Out Multi Input: DC In or Screw Terminal Block In (STB In)
ESD Protection	Supports ESD (Electro Static Discharge) Over Voltage protection and Short Circuit Protection
Environmental & Mechanical Characteristics	
Max Power Output	90Watt
Power Requirement	56V 90Watt External Power Supply
Input Voltage	48 ~ 57Volt
LED	System LED: Power *1 PoE End-span(Green), Mid-span(Green) *2
Operate/Storage Temp.	-40° to 75° C / -40° to 85° C
Operate/Storage Humid.	5% to 90% / 5% to 90% (non-condensing)
Dimension(W x D x H)	130 x 82 x 27mm
Weight (g)	233g
Form Factor	Desktop/Wall mounting installation
Case material	Metal
Production Location	TW
Certifications	FCC ,CE, RoHs compatible