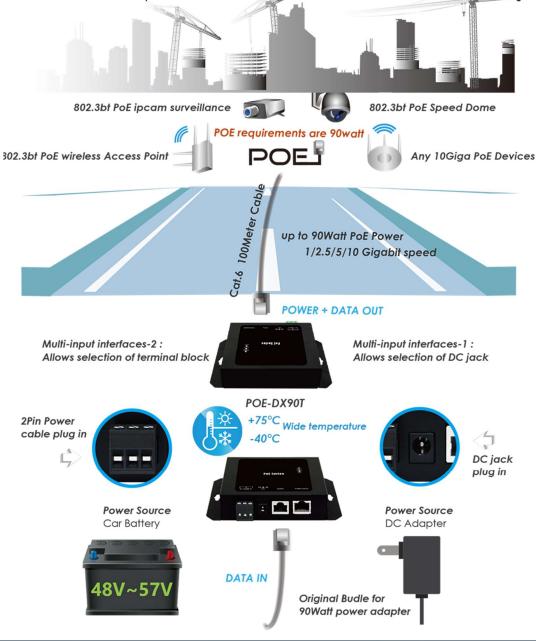# POE-DX90T

**90Watt MultiG/10Gigabit DC/Terminal
Wide Temperature PoE Injector(Active Type)**

EAN Code : 4712757150179

CERIO **POE-DX90T** supports **IEEE 802.3bt/at/af** Power Over Ethernet Standard. It's an Active PoE **5-Speed (100M/1G/2.5G/5G/10G)** PoE Injector supports 2 Ethernet ports and provides **DC 48-57V** over Ethernet cables. It provides Screw Terminal Block and DC In both Power System. User can select either one to supply power. The max. 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.

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 IEEE 802.3bt/at/af POE standards and PoE max Power up to 90Watt (IEEE 802.3bt) bundle with 56V power supply.
- 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.
- 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.
- Over Current Protection & Short-circuit Protection.
- Plug-and-Play, requires no configuration.
- Supports desktop, wall mounting installation.

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.

Durable Metal Housing and Wide Temperature Design

CERIO POE-DX90T provides an industrial durable and high-reliability metal case design and supports a wide range temperature design of -40° ~ 75° C. 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 PoE Injector 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.

ESD Protection

The POE-DX90T supports ESD, Electro Static Discharge protection includes Over Voltage protection and Short Circuit Protection ensuring device safety.
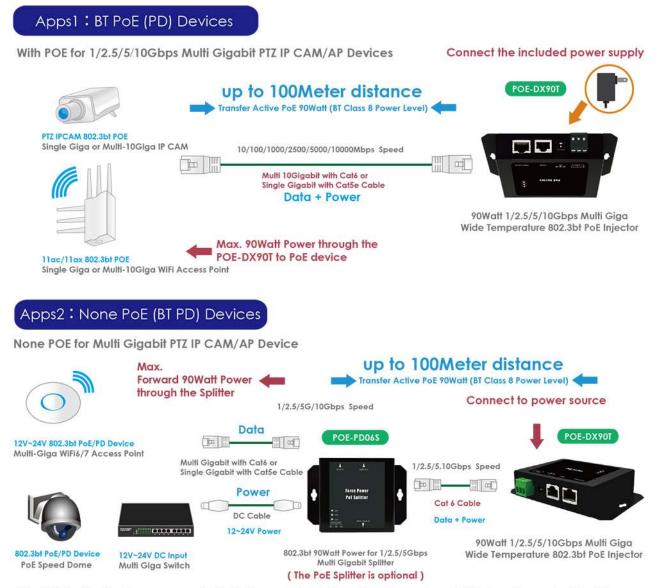
Easy installation

Plug-and-Play, requires no configuration.

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

POE-DX90T

up to 100Meter distance
Transfer Active PoE 90Watt (BT Class 8 Power Level)

PTZ IPCAM 802.3bt POE
Single Giga or Multi-10Giga IP CAM

10/100/1000/2500/5000/10000Mbps Speed

Multi 10Gigabit with Cat6 or
Single Gigabit with Cat5e Cable
Data + Power

90Watt 1/2.5/5/10Gbps Multi Giga
Wide Temperature 802.3bt PoE Injector

Max. 90Watt Power through the
POE-DX90T to PoE device

11ac/11ax 802.3bt POE
Single Giga or Multi-10Giga WiFi Access Point

Apps2 : None PoE (BT PD) Devices

None POE for Multi Gigabit PTZ IP CAM/AP Device

Max.
Forward 90Watt Power
through the Splitter

up to 100Meter distance
Transfer Active PoE 90Watt (BT Class 8 Power Level)

1/2.5/5G/10Gbps Speed

Connect to power source

12V~24V 802.3bt PoE/PD Device
Multi-Giga WiFi6/7 Access Point

Data

Multi Gigabit with Cat6 or
Single Gigabit with Cat5e Cable

POE-PD06S

1/2.5/5.10Gbps Speed

POE-DX90T

Power

DC Cable

12~24V Power

Force Power
PoE Splitter

Cat 6 Cable

Data + Power

802.3bt PoE/PD Device
PoE Speed Dome

12V~24V DC Input
Multi Giga Switch

802.3bt 90Watt Power for 1/2.5/5Gbps
Multi Gigabit Splitter
(The PoE Splitter is optional)

90Watt 1/2.5/5/10Gbps Multi Giga
Wide Temperature 802.3bt PoE Injector

* 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.

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

PoE Series

V+ GND V-   DC   DATA   PWR+DATA

Midspan

Endspan

DATA IN   P+DATA OUT

48~57V DC   48~57V DC
Terminnal Block Power Input
Power Input

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 Plus (PoE+)
IEEE 802.3bt Power over Ethernet Plus Pus (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/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 Adapter

Input Voltage
48 ~ 57Volt

LED
| System: Power (Green) | x1 |
| PoE: End-span (Green) , Mid-span (Green) | x2 |

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 (g)
233g

Form Factor
Desktop/Wall mounting installation

Case of material
Metal

Production Location
TW

Certifications
FCC ,CE, RoHs compatible

Package Contents

Contents
POE-DX90T Main Unit	x1
90Watt Power Adapter	x1
Warranty Card	x1