

# POE-DX30T

30Watt MultiG/10Gigabit DC/Terminal  
Wide Temperature PoE Injector(Active Type)



## 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-DX30T** supports IEEE 802.3af/at Power Over Ethernet Standard. It's an Active 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 30Watt. The POE-DX30T 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.

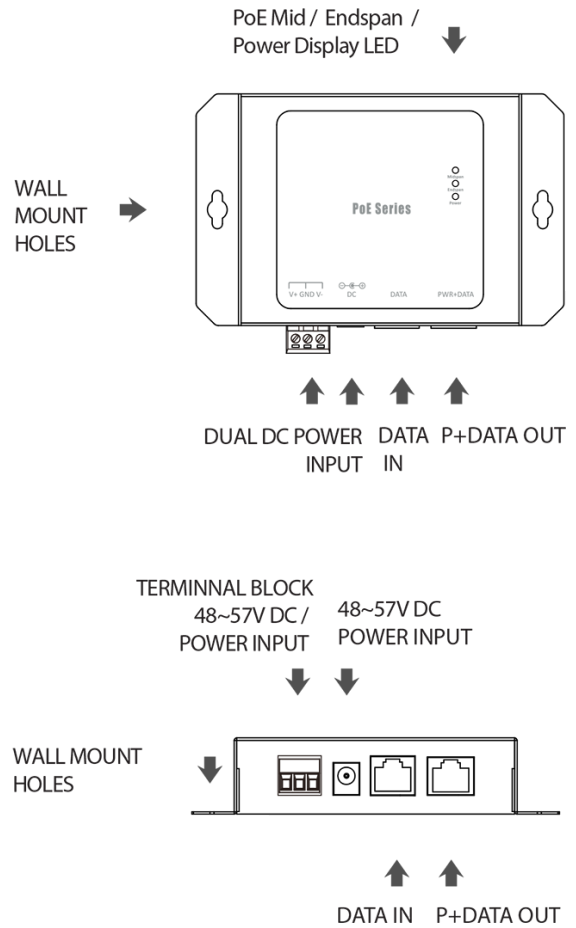
## Unpacking Information

Thank you for purchasing our 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-DX30T Main Unit x 1
2. 30 Watt Power Adapter x 1
3. Warranty Card x 1

## Hardware Overview



## Functionality

CERIO POE-DX30T is designed to supply operational power to wireless LAN devices such as PoE access point bridges, routers, and surveillance cameras. It greatly simplifies the wiring and deployment process, and brings a great deal of convenience benefits to office and industrial environments. Moreover, it supports End-span (Type-A) or Mid-span (Type-B) power pin designed, no matter the PD devices is designed Type-A or Type-B all can supply power automatically. The POE-DX30T 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+ standards.
- Supports 5-Speed (100M/1G/2.5G/5G/10G) Ethernet connection ability.
- 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 POE standards and PoE max Power up to 30Watt (IEEE 802.3at) bundle with 52~56V power supply.
- Supports PSE/POE Power Over Ethernet functionality, enabling simultaneous data and power transmission while maintaining a 10Gbps connection speed. CAT 6a or higher cabling is recommended, with a maximum power transmission distance of up to 100 meters (328 feet).
- Provide Screw Terminal Block and DC In both Power System. User can select either one to supply power.
- 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.

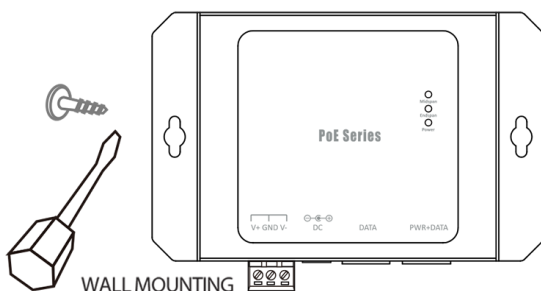
## Installation

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.**



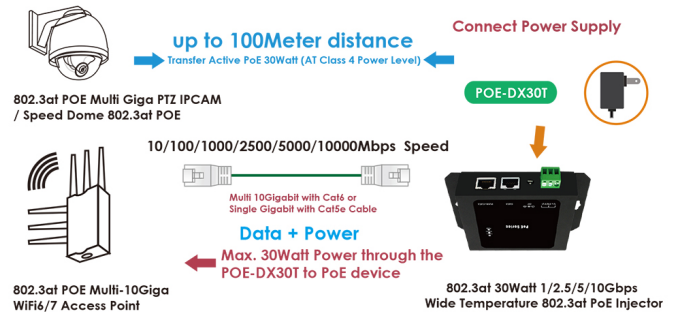
## Wall mounting installation

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

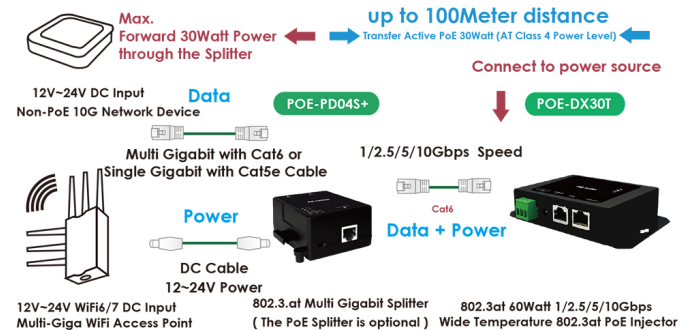


## Product Application

### POE for 1/2.5/5/10Gbps Multi Giga PTZ IP CAM/AP Devices



### Active PoE Splitter applied to DC Output for 12V-24V Device



## Specifications

Standards & Hardware Specifications	
<b>Standard</b>	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+)
	10BASE-T : UTP Cat. 3 or up
	100BASE-TX : UTP Cat. 5 or up
	1000BASE-T : UTP Cat. 5 or up
<b>Network Media</b>	2.5G/5G BASE-T : UTP Cat.5e or up
	10GBASE-T : UTP Cat.6a or up
	10M/100M/1G/2.5G/5G/10G(Half-duplex), 20M/200M/2G/5G/10G/20G (Full-duplex)
<b>Data Transfer Rate</b>	Active POE
	POE Type
<b>Data Pin</b>	PIN 1/2,3/6 & 4/5,7/8
	Power Pin
<b>Ethernet Connector</b>	End-span (Type-A): PIN 1/2,3/6
	Mid-span (Type-B): PIN 4/5,7/8
<b>Power Interface</b>	RJ-45 x1 : Data
	RJ-45 x1 : Power + Data
	Output: RJ45 IEEE 802.3af/at Active PoE
<b>ESD Protection</b>	Out
	Power Interface
<b>ESD Protection</b>	Multi Input: DC In or Screw Terminal Block
	ESD Protection
<b>Environmental &amp; Mechanical Characteristics</b>	In (STB In)
	Supports ESD (Electro Static Discharge)
<b>Max Power Output</b>	Over Voltage protection and Short Circuit Protection
	30Watt
<b>Power Requirement</b>	52~56V 30Watt External Power Adapter
	48 ~ 57Volt
<b>Input Voltage</b>	System(Power) : Green *1
	LED
<b>Operate/Storage Temp.</b>	PoE : End-span(Green), Mid-span(Green) *2
	-40° to 75° C / -40° to 85° C
<b>Operate/Storage Humid.</b>	5% to 90% / 5% to 90% (non-condensing)
	Dimension(W x D x H)
<b>Weight (g)</b>	130 x 82 x 27mm
	235g
<b>Case material</b>	Desktop/Wall mounting installation
	Metal
<b>Production Location</b>	TW
	<b>Certifications</b>
	FCC ,CE, RoHs compatible