POE-G30T

30Watt 10/100/1000M/Multi Gigabit DC/Terminal 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.

Unpacking Information

Thank you for purchasing our Power PoE series products. Before installation, please check that your package contains the following items.
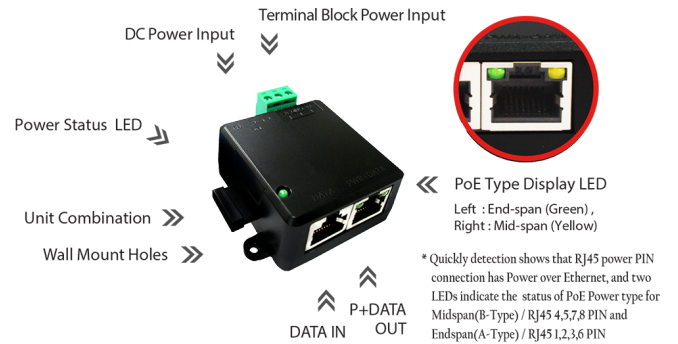
Open the shipping cartons of the PoE Adapters and carefully unpack its contents. The carton should contain the following items:

1. **POE-G30T Main Unit x 1**
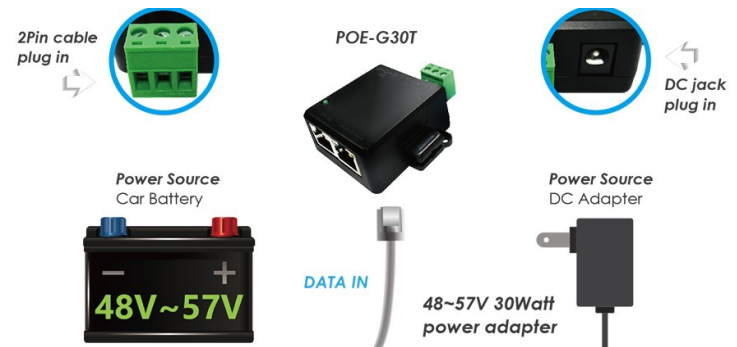2. **30 Watt Power Adapter x 1**
3. **Warranty Card x 1**

Introduction

CERIO POE-G30T supports IEEE 802.3af/at Power Over Ethernet Standard. It's an Active PoE Multi Gigabit PoE+ Injector, provides DC 48-57V over Ethernet cables. It supports IEEE802.3af 15.4Watt POE (Class3 Standard) and IEEE802.3at 30Watt POE+ (Class4 Standard). Provide Screw Terminal Block power input and DC In, both Power Systems. With extremely cost-effective, it provides enterprise-level flexibility and expansion capabilities. With this **POE-G30T** PoE+ Injector, you can simultaneously transmit network data and power to PD powered network equipment through the RJ45 UTP cable.

Hardware Overview

DC Power Input
Terminal Block Power Input
Power Status LED
Unit Combination
Wall Mount Holes
DATA IN
P+DATA OUT
PoE Type Display LED
Left : End-span (Green) ,
Right : Mid-span (Yellow)

* Quickly detection shows that RJ45 power PIN connection has Power over Ethernet, and two LEDs indicate the status of PoE Power type for Midspan(B-Type) / RJ45 4,5,7,8 PIN and Endspan(A-Type) / RJ45 1,2,3,6 PIN

The unit can be powered either with supplied power adapter or with a battery of 48~57 V through 2 Pin Cable terminal plug in. **Please connect grounding for ESD**.

2Pin cable plug in

POE-G30T

DC jack plug in

Power Source
Car Battery
48V~57V

DATA IN

Power Source
DC Adapter
48~57V 30Watt power adapter

Highlight Features

➢ Complying with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3bz 2.5G/5GBASE-T, IEEE 802.3af PoE , IEEE 802.3at PoE+ standards.

➢ Supports Multi Gigabit (1/2.5/5Gbps) Ethernet connection ability.

➢ Auto detect PD power pin is powered by End-span (Type-A) or Mid-span (Type-B) then powered to PD device and LED indicator shows power pin type.

➢ Supports IEEE 802.3af/at POE standards and PoE max Power up to 30Watt (IEEE 802.3at) bundle with 56V Power supply. This power supply supports interchangeable plug (optional), which can meet the needs of international power plug applications.

➢ 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 5 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). Over Current Protection and Short-circuit Protection.

➢ Supports Desktop, Wall mounting and Units Combination for easy to bundles organize the Ethernet cables.

Installation

Plug-and-Play, requires no configuration. Plug in the Power adaptor or connect to a battery. 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.

Wall mounting installation

This device can be screwed on the wall or on the desk.

Unit Combination

The **PoE-G30T** Units can be combined side by side as the picture shows so that the organizing of the cables can be easily done.
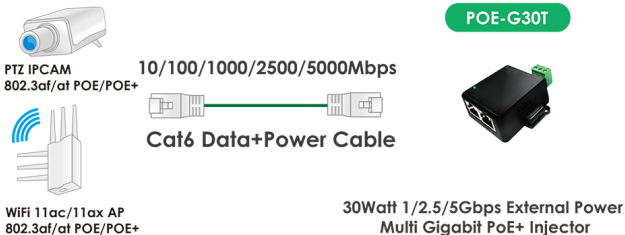

Product Main Application (As Injector)

CERIO POE-G30T PoE+ injector 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.

Apps1：PoE+ (PD) Devices

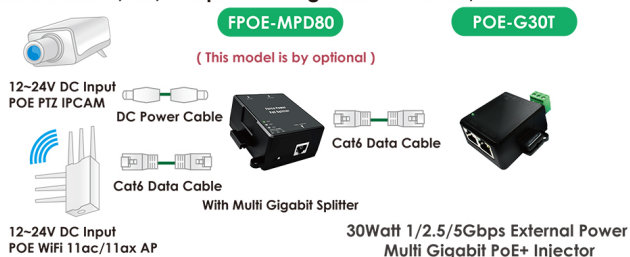**With POE for 1/2.5/5Gbps Multi Gigabit PTZ IP CAM/AP Devices**

Other Application

It can also be used as a DC power supply with the help of our other product. The splitter can turn 56 Volt into 12 V or 19 V or 24 V.

Apps2：None PoE+ (PD) Devices

None POE for 1/2.5/5Gbps Multi Gigabit PTZ IP CAM/AP Device

Functionality

The **CERIO POE-G30T** greatly simplifies the wiring and design layout processes, and brings a great deal of convenience benefits to home, office, and industrial environments. Moreover, it supports End-span (Type-A) and also Mid-span (Type-B) power pin designed, no matter how the PD devices is designed Type-A or Type-B all kind of devices can be supplied with power automatically by our POE. The **POE-G30T** Power over Ethernet (POE) adapter is designed to supply operational power to local area network LAN wireless devices such as PoE access point bridges, routers, and surveillance cameras. With Power over Ethernet devices installed, the system administrator only has to use a single RJ-45 Ethernet cable to transfer both power and data to each device. Cerio POE Injector can provide both data and power for distances of up to 100 meters (328 feet) from the power source when CAT 5 or up cabling is used. POE-G30T supports ESD , Electro Static Discharge protection includes Over Voltage protection and Short Circuit Protection ensuring device safety. Some additional benefits of Cerio POE Injector include cost saving, convenience in network planning, and higher reliability.

Product 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 802.3af Power over Ethernet (PoE)
	IEEE 802.3at Power over Ethernet (PoE+)
Network Media	10BASE –T: UTP Cat. 3 or up
	100BASE-TX: UTP Cat.5 or up
	1000BASE-T: UTP Cat. 5e or up
	2.5G/5G BASE-T : UTP Cat.5e or up
Data Transfer Rate	10/M/100M/1G (Half-duplex),
	20M/200M/2G (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 802.3af/at standard PoE+ 56V
	Out Input: AC In
ESD Protection	Supports ESD (Electro Static Discharge)
	Over Voltage, Short Circuit Protection
Environmental & Mechanical Characteristics	
Max Power Output	30Watt
Power Requirement PoE Output Voltage	56V 30W External Power Supply
Input Voltage	48~57 Volt
	AC 100~240V, 50-60 Hz
LED	System LED: Power (Green) *1
	PoE :End-span(Green)Mid-span(yellow) *2
	(The PoE LED on RJ45 Jack)
Operate/Storage Tem	0° to 55° C/ -40° to 70° C
Operate/Storage Hu.	5% to 90% (non-condensing)
Dimension(W x D x H)	64.8 x 65.8 x 24 mm
Weight (g)	48 g
Form Factor	Wall mounting, Destop, Units Combination
Case material	Plastic
Production Location	TW
Certifications	FCC ,CE, RoHs compatible