CS-1005G-2PD

**5 Port 10/100/1000M Gigabit Switch with
2 Port PoE+ (30Watt Power)**

EAN Code : 4712757159615

Introduction

The **CERIO CS-1005G-2PD** is a powerful and complying with IEEE 802.3af/at Power over Ethernet standard which provides **DC 48~57V** Gigabit over Ethernet cables high-performance Gigabit Ethernet switch, with all 5 ports capable of 10/100Mbps or 1000Mbps auto-negotiation operation which means the switch could automatically negotiate with the connected partners on the network speed and duplex mode.

 The **CS-1005G-2PD supports 2 Port 10/100/1000M Gigabit port Power over Ethernet (PoE+)** allows you to expand your network via Ethernet cable to where there is no power line or outlet but where you want to fix devices such as APs, IP Cameras or IP Phones, etc.. No longer need to worry about the complicated cables and long distance which may cost you a lot of time and money.
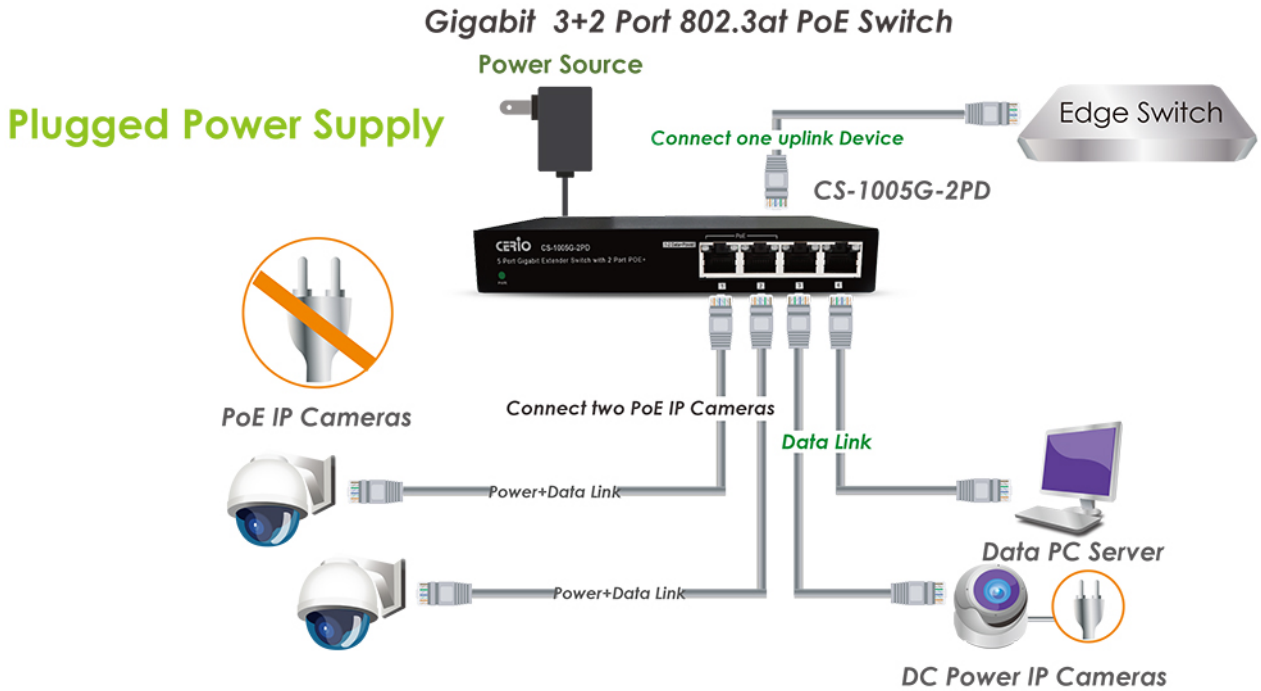
Additional supported to **pass-through PoE power further downstream to one or two Powered Devices (1~2 PSE Port)** and the PoE budget is dependent on the PoE source (802.3af or 802.3at) and the Uplink port PD's PoE Classification. It is ideal to extension the Ethernet network range beyond 100m, delivering both data and power to network devices such as IP CAM、VOIP Phone with IEEE PoE and Data standards.
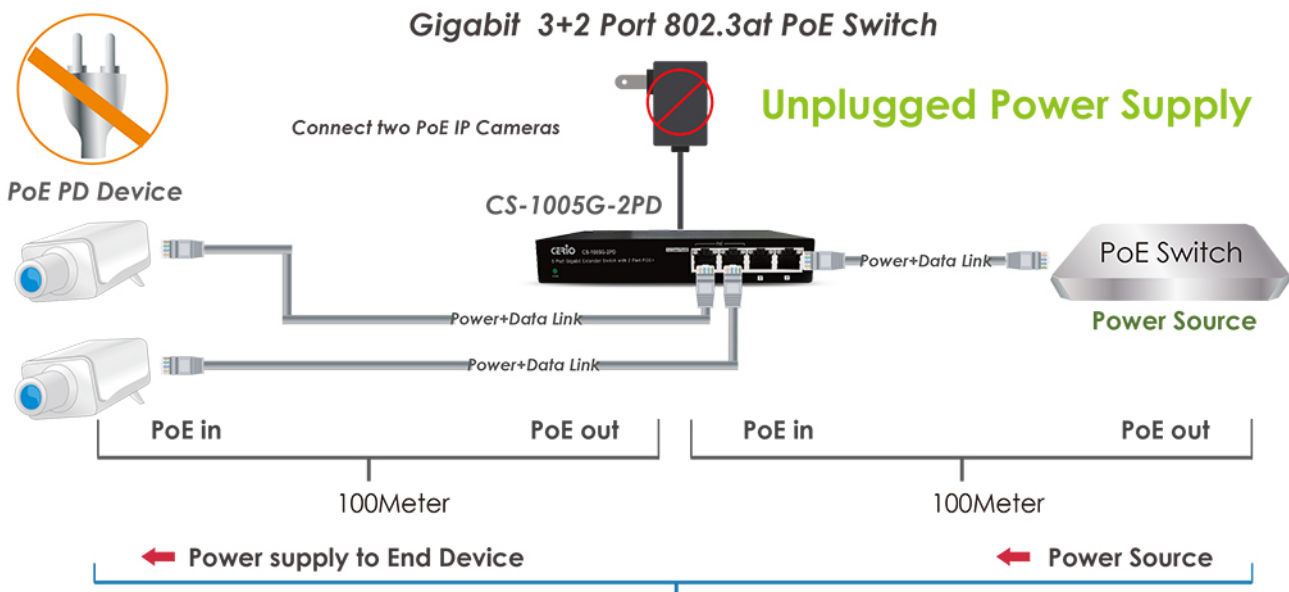
Highlight Features

- Complying with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3af PoE ,IEEE 802.3at PoE+.
- 5 Ports 10/100/1000Mbps Auto-Negotiation Gigabit Switch, including 2 Ports PSE/ PoE+ function, complying with IEEE 802.3af/at standard.
- Support receive electrical power by Gigabit ethernet uplink port for PoE extension application.
- Supporting the power up to 30Watt/15.4Watt/ 7.5Watt/4Watt for each PSE/PoE+ port with bundle Power Adapter have 30Watt share for 2 PoE ports (Only POE Port 1-2).
- Full/Half-Duplex capability on each TX port .
- Supports Store & Forward architecture and performs forwarding and filtering.
- Auto-learning networking configurations.
- Supporting the flow control: back pressure for Half-duplex and IEEE 802.3x for Full-duplex mode.
- Support Jumbo Frame 9K.
- Non-blocking & Non-head-of-line blocking full-wire speed forwarding.
- Supports TP interface Auto MDIX function for auto TX/RX swap.
- Automatic Source MAC Address Learning and Aging.
- Supports up to 2K MAC addresses.
- Up to 1Mb bits buffer.

Product Appliction
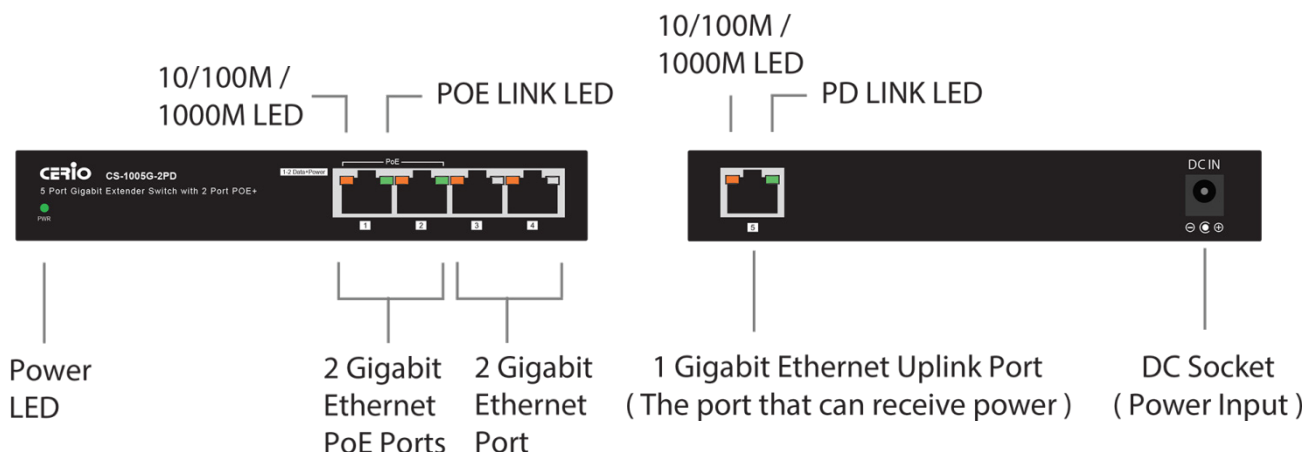
1. Normally PoE application

Gigabit 3+2 Port 802.3at PoE Switch

Power Source

Plugged Power Supply

Connect one uplink Device

Edge Switch

CS-1005G-2PD

CERIO CS-1005G-2PD
5 Port Gigabit Extender Switch with 2 Port POE+

PoE IP Cameras

Connect two PoE IP Cameras

Data Link

Power+Data Link

Data PC Server

Power+Data Link

DC Power IP Cameras

2. Extension the PoE application

Gigabit 3+2 Port 802.3at PoE Switch

PoE PD Device

Connect two PoE IP Cameras

Unplugged Power Supply

CS-1005G-2PD

CERIO CS-1005G-2PD

Power+Data Link

PoE Switch

Power Source

Power+Data Link

Power+Data Link

PoE in	PoE out	PoE in	PoE out

100Meter 100Meter

← Power supply to End Device ← Power Source

Double the Power over Ethernet distance = 200Meter

Hardware Overview

10/100M / 1000M LED — POE LINK LED

10/100M / 1000M LED — PD LINK LED

Power LED

2 Gigabit Ethernet PoE Ports

2 Gigabit Ethernet Port

1 Gigabit Ethernet Uplink Port (The port that can receive power)

DC Socket (Power Input)

Standards & Hardware Specifications

Network Standards Conformance
IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX,
IEEE 802.3ab 1000Base-T,
IEEE 802.3x Flow Control
IEEE 802.3af Power over Ethernet (PoE)
IEEE 802.3at Power over Ethernet Plus (PoE+)

Port Configuration
5ports RJ-45 connectors for 10/100/1000Mbps
(With 2 Ports PSE/ PoE+ and Uplink PD Port function)

Media Access Protocol
CSMA / CD

Network Media
10BASE –T: UTP Cat. 3 or up,
100BASE-TX: UTP Cat. 5 or up,
1000BASE-T: UTP Cat. 5 or up

Transmission Method
Store and Forward

MAC Address Table
2K

Built-in Buffer
1Mb

Jumbo Frame
9K

Data Transfer Rate
10/100/1000Mbps (Half-duplex),
20/200/2000Mbps (Full-duplex)

Auto MDI/MDIX	
Yes	

LED Indicators	
Per Gigabit Port:(Link/Act): Status	x5
PoE Ports (PSE): Status	x2
Uplink Port (PD): Status	x1
Per Unit: Power	x1

Internal Bus Speed
10Gbps

Environmental & Mechanical Characteristics

Power Supply
30Watt External Power Adapter or Gigabit Ethernet Uplink Port for PD receive electrical power

PoE Power Budget
25.5Watt shared for all PoE Ports

Power Consumption
1.5 Watt

PoE Power Output
Up to 30W per port (**for Ports 1-2 Only**)

Power Requirement
DC 48~57 Voltage Input or Uplink PD Port Input

Operating Temperature
0° to 55° C

Storage Temperature
-40° to 70° C

Operating Humidity
10% to 90% non-condensing

Storage Humidity
5% to 90% non-condensing

Dimensions (W x D x H)
160 x 85 x 25mm

Unit Weight
0.342kg

Case of Materials
Metal

Production Location
TW Only

Certifications
FCC, CE, RoHS-Compliant

Package Contents

Contents	
CS-1005G-2PD Main Unit	x1
Quick Installation Guide Booklet	x1
Power Adapter	x1
Warranty Card	x1