PoE Series CS-1008G-8PX

8 Port 10/100/1000M Gigabit PoE+ Switch

User's Guide

FCC Certifications

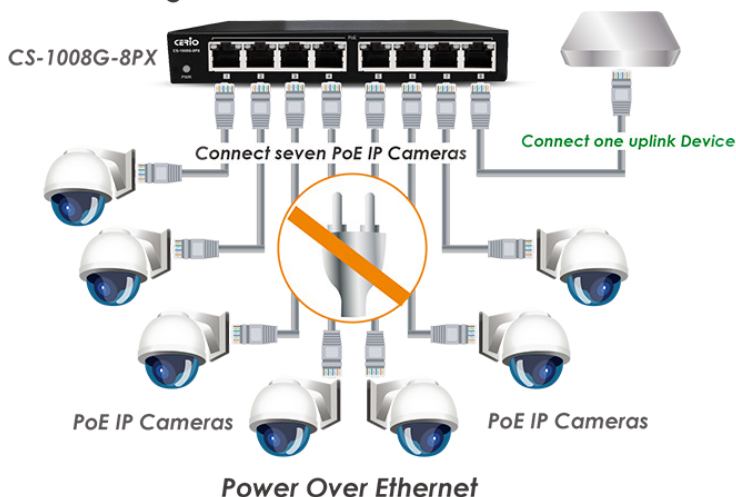### CE Mark Warning

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 switch and carefully unpack its contents. The carton should contain the following items:

1. CS-1008G-8PX Main Unit x1
2. Quick Installation Guide Booklet x1
3. Power Adapter x1
4. Warranty Card x1

Application

Gigabit 8 Port 802.3at PoE Switch

CS-1008G-8PX

Connect seven PoE IP Cameras   Connect one uplink Device

PoE IP Cameras   PoE IP Cameras

Power Over Ethernet

Introduction

Power Over Ethernet

The CERIO CS-1008G-8PX 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 8 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. It is ideal for micro-segmenting large networks into smaller, connected subnets for improved performance, enabling the bandwidth demanding multimedia and imaging applications. Moreover, the 10/100/1000Mbps autosensing ability provides an easy way to migrate 10Mbps to 1000Mbps network with no pain.

The CS-1008G-8PX supports 8 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. By integrating the data transmitting cable and power cord, it eliminates the effort constructing your network. Over current protection and circuit shorting protection are also supported to ensure the safety. It also support desk top and wall mounting for easy installation.

Key Features

➢ Complying with IEEE 802.3 10Base-T, IEEE 802.3u100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3afPoE ,IEEE 802.3at PoE+

➢ 8 Ports 10/100/1000Mbps Auto-Negotiation Gigabit Switch, including 8 Ports PSE/ PoE+ function, complying with IEEE 802.3af/at standard

➢ Supporting the power up to 30Watt/15.4Watt/ 7.5Watt/4Watt for each PSE/PoE+ port with bundle Power Adapter have 90Watt share for 8 PoE ports

➢ 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 hardware LED Loop Detectors, allowing the system to quickly flash the LED on any port that generates a loop. This simplifies the troubleshooting process and makes it easier to identify issues.

➢ Supports up to 4K MAC addresses

➢ Up to 1.5Mb bits buffer

Installation

The setup of the switch can be performed using the following steps:

- Visually inspect the DC jack and make sure that is fully secured to the power adapter
- Make sure that there is proper heat dissipation from and adequate ventilation around the Switch. Do not place heavy objects on the Switch

Cables Installation

The Switch support 8 port 10/100/1000Mbps Gigabit Ethernet ports and Port 1 – Port 8 are Gigabit PoE Enabled ports, these PoE port will automatically activate when a compatible terminal is identified. The Switch will supply power through the Ethernet port to the connected PoE powered device (PD) For legacy devices that are not compatible, the PoE port will not offer power to this device. This feature allows users to freely and safely mix legacy and Power over LAN compatible devices on their network.

The Switch supports 10Mbs Ethernet or 1000Mbps Gigabit Ethernet and it runs both in half and full duplex mode using two pair of Category 5 cable. These RJ45 ports are Auto-MDI type port. The Switch can auto negotiate the MDI-II or MDI-X type, so you can connect any RJ-45 cable regardless if it is a standard or crossover cable.

Gigabit Ethernet Port / PoE Ports (Port 1~8)

These ports support network speeds of either 10Mbps or 100Mbps or 1000Mbps, and can operate in half and full-duplex transfer modes. These ports also support automatic MDI/MDIX crossover detection And These all ports are 802.3af (PoE) and 802.3at(PoE+), the PoE port will automatically activate when a compatible terminal is identified. The PoE switch will distribute power through the Gigabit ethernet ports to the connected PoE device. For devices that are not compatible, the PoE port will not supply the power to this device. This feature allows user's to freely and safely utilize the 802.3af (PoE) and 802.3at(PoE+) for Power over Lan devices on their network.

Hardware Overview

10/100M / 1000M LED

POE LINK LED

Power LED

8 Gigabit Ethernet PoE Ports

DC IN

DC Socket (Power Input)
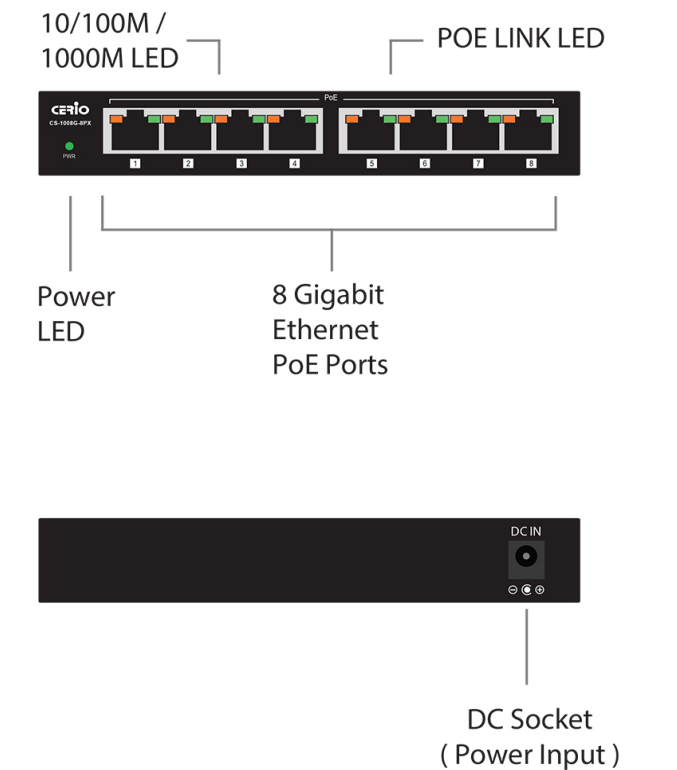
LED Indicator:

Complete LED indicators displays the status of the PoE Switch and network status
The front panel LEDs provides instant status feedback, and assists to monitor and troubleshoot when required.

Power LED   *Power : (Power Indicator)*

On :	Power On
Off :	Power Off

PoE LEDs (Port 1 ~ Port 8)   *(PoE Status)*

Green :	When the PoE powered device (PD) is connected and the port distributes power successfully
Off :	When the PoE port has failed, possible reason are: PoE Power circuit shortage Power over current: over the power current of PD's classification Out of PoE voltage of 48 ~ 57 VDC output No PoE power device (PD) connected

LINK/ACT Status LEDs (Ports 1~8)

Green	The port is 1000M Link / Act connected.
Blinking Green	A valid link is established, and there is data transmitting/receiving.
Amber	10/100M Link / Act connected.

Product Specifications

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	8ports RJ-45 connectors for 10/100/1000Mbps (With 8 Ports PSE/ PoE+ function)
Media Access Protocol	CSMA / CA
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	4K
Built-in Buffer	1.5M bits
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 x 8 PoE : Status x 8 Per Unit: Power x 1
Internal Bus Speed	16Gbps

Environmental & Mechanical Characteristics	
Power Supply	90Watt External Power Adapter
PoE Power Budget	80Watt shared for all PoE Ports
Power Consumption	2.8Watt
PoE Power Output	Up to 30W per port
Power Requirement	DC In : Input Voltage: 48 ~ 57Volt
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
Dimension (W x H x D)	160 x 85 x 25mm
Unit Weight	0.36kg
Case of Materials	Metal
Production Location	TW
Certification	FCC, CE,BSMI, RoHS-compliant