POE-OSP+

1/2.5Gbps Multi Gigabit Ethernet PoE Pass-Through Outdoor Surge Protector

EAN Code : 4712757150124

Introduction

The **CERIO POE-OSP+** is an **outdoor PoE Pass-through Ethernet Surge Protector** provides superior lightening and surge protection over **1/2.5Gbps Multi Gigabit networks** speeds to provide Gigabit Power-over-Ethernet (PoE) over a single Ethernet cable. It supports **10 kA** Impulse Discharge Current guarantees reliable surge protection and provides excellent lightning protection for network PoE and non-PoE devices when transmitting on Gigabit network. **POE-OSP+ provides aluminum enclosure with IP68 rating waterproof durable design** are made to withstand harsh environment deployment. It's ideal for installation in outdoor environments.

Higlight Features

- Complying with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T and IEEE 802.3bz 2500Base-T standards.
- Supports 1/2.5Gbps Multi Gigabit Ethernet speed and Power over Ethernet (PoE) pass through.
- Supports IP68 rating weather-proof durable design are made to withstand harsh environment deployment.
- Load current self-protection mechanism and grounding wire function pulse discharge current protection design.
- Built in grounding pad which can connect to grounding cable to lower clamping voltage for better and more reliable protection and supports 10 kA Impulse Discharge Current.
- Supports 2 protection mode : Line-to-Ground and Line-to-Line.
- Protects all Eight(8) pins of the Ethernet cable.
- Bundle with 18AWG grounding cable.
- Plug and Play, no software required.
- Supports wall mounting installation.

Functionality

The CERIO Multi Gigabit Outdoor Surge Protector with the latest advanced hardware protection design protecting outdoor Ethernet devices from damaging electrostatic discharge and surges. It can function as a transmitter for a PoE switch to deliver power and data through an Ethernet cable and can handle data rates of up to 2500 Mbps Multi Gigabit speed. This device protects all 8 pins of the Ethernet cable and is compatible with all types of RJ45 cables. Installing two **POE-OSP+** devices, one is nearly terminal equipment (such as PoE/non-PoE outdoor cameras, Outdoor AP), and the other at source equipment (such as PoE/non-PoE Switch, Router). Damaging ESD attacks and surges will be absorbed by the **POE-OSP+** devices and safely discharged into the ground. It is a cost-effective solution for protecting expensive outdoor Ethernet devices

Surge Protection

CERIO POE-OSP+ provides higher surge capability and lower clamping voltage. It is compliant with IEC/EN 61643-21 and IEC/EN 61000-4-5 standard.

Weather-proof

POE-OSP+ provides IP68 rating weather-proof durable design makes it perfect for deployment in enterprise application.

Additional Benefits

The benefit of **CERIO POE-OSP+** includes maximize surge capability and enhancing reliability device safety. It can greatly reduce the impact of lightning and surges on outdoor network equipment.

Easy installation

Simple Plug-and-Play, requires no configuration.
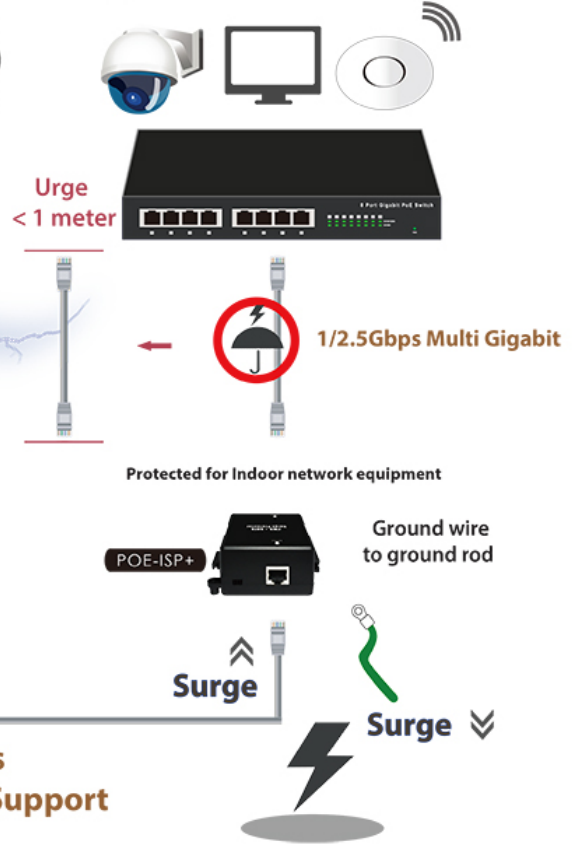
Product Application

POE-OSP+ Multi Giga Speed for Outdoor

PoE equipment / WiFi AP / IPCAM

1/2.5Gbps Multi Gigabit

Lightning Strike

Urge < 1 meter

Protected for Outdoor equipment

Ground wire to ground rod

PWR + DATA Outdoor Series — POE-OSP+

Surge

Surge

POE-ISP+ Multi Giga Speed for Indoor

Equipment for PoE Switch /WiFi AP / IPCAM

Urge < 1 meter

1/2.5Gbps Multi Gigabit

Protected for Indoor network equipment

POE-ISP+

Ground wire to ground rod

Surge

Surge

10/100/1000/2500Mbps Multi Gigabit Ethernet Speed Support

Hardware Overview

Port link to Protected Device

Wall Mount Holes

PWR + DATA Outdoor Series

Grounding

Link to Line in Port

CERIO
Amplify your Wireless Network

Wall Mounting

PWR + DATA
Outdoor Series

Device

Line In

Connect the ground wire

PWR + DATA
Outdoor Series

Device

Line In

Standards & Hardware Specifications

Standard
IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
IEEE 802.3ab 1000BASE-T
IEEE 802.3bz 2500Base-T
IEEE 802.3af/at/bt POE Pass-through

Network Media
10BASE –T: UTP Cat. 3 or up
100BASE-TX : UTP Cat. 5 or up
1000BASE-T: UTP Cat. 5 or up
2500BASE-T: UTP Cat. 5e or up

Data Transfer Rate
10/100/1000/2500Mbps (Half-duplex),
20/200/2000/5000Mbps (Full-duplex)

Clamping Line-to-Ground
20 kV (10/700 us)
600V at 10 kA (8/20 us)

Clamping Line-to-Line
6 kV (10/700 us)
20V at 1 kA (8/20 us)

Data In
Connects PC/HUB/Switch

Ethernet Connector	
RJ-45 x1 for Line in	x1
RJ-45 x1 for Line out	x1

Surge Protection Design
10 kA (After grounding ability)

Surge Response Time
1ns

Package Contents

Contents	
POE-OSP+ Main Unit	x1
18AWG grounding cable	x1
Wall mounting screw set	x1
Quick Installation Guide	x1
Warranty Card	x1

Environmental & Mechanical Characteristics

PoE Operation DC Voltage
60 VDC (Max)

PoE Operation DC Current
Two pair : 0.65A (Max)
Four pair : 1.3A (Max)

PoE Power Load
74Watt (Four Pair Max)

PoE Input Voltage
44~60V

Operating Temperature
-40° to 85° 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)
76 x 165 x 60mm(Including wall mounting kit)

Weight (g)
325g

Case of material
IP68 Rating Weather-proof Alumm casing

Production Location
TW

Supports
IEC/EN 61643-21 (Safety) compatible
IEC/EN 61000-4-5 (EMC) compatible

Certifications
IEC 60529 IP68 Rating
CE, FCC and RoHS Compliant