POE-ISP

Gigabit Ethernet PoE Pass-through Surge Protector

EAN Code : 4712757159684

Introduction

The **CERIO POE-ISP** is a PoE Pass-through Ethernet Surge Protector provides superior lightening and surge protection over gigabit networks speeds to provide Gigabit Power-over-Ethernet (PoE) over a single Ethernet cable. It provides durable design featuring a higher surge capability and lower clamping voltage. And the 10 kA Impulse Discharge Current guarantees reliable surge protection. The advantage of **POE-ISP** surge protector design is the added level of protection due to its large power rating and fast discharge time.

Higlight Features

- Complying with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T standards.
- Supports 10/100/1000Mbps Gigabit Ethernet speed, Power over Ethernet (PoE) pass through and compatible with IEEE 802.3bt PoE Class 8 or less power level.
- 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.
- Plug and Play, no software required.
- Supports desktop , multiple units combination and wall mounting easy to use.

Functionality

The CERIO POE-ISP PoE Pass-through Ethernet Surge Protector can function as a transmitter for a PoE switch to deliver power and data through an Ethernet cable. This device protects all 8 pins and is compatible with all types of RJ45 cables. The PoE Ethernet Surge Protector can handle data rates of up to 1000 Mbps, and is backwards compatible with older 10/100 Mbps ports.

Surge Protection

CERIO POE-ISP provides higher surge capability and lower clamping voltage. It is compliant with IEC/EN 61643-21 and IEC/EN 61000-4-5 standard. The benefit of **CERIO POE-ISP** includes maximize surge capability and enhancing reliability device safety.

Additional Benefits

Some additional benefits of CERIO PoE Surge Protector include cost saving, small pocket size and convenience in network planning, and higher reliability.

Easy installation

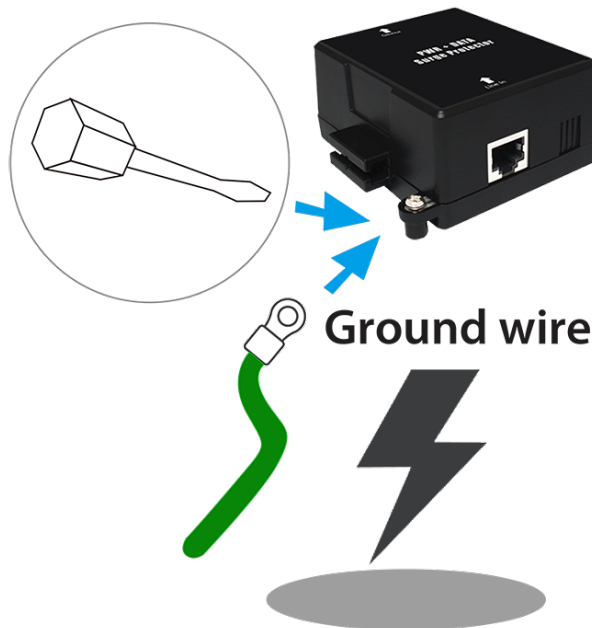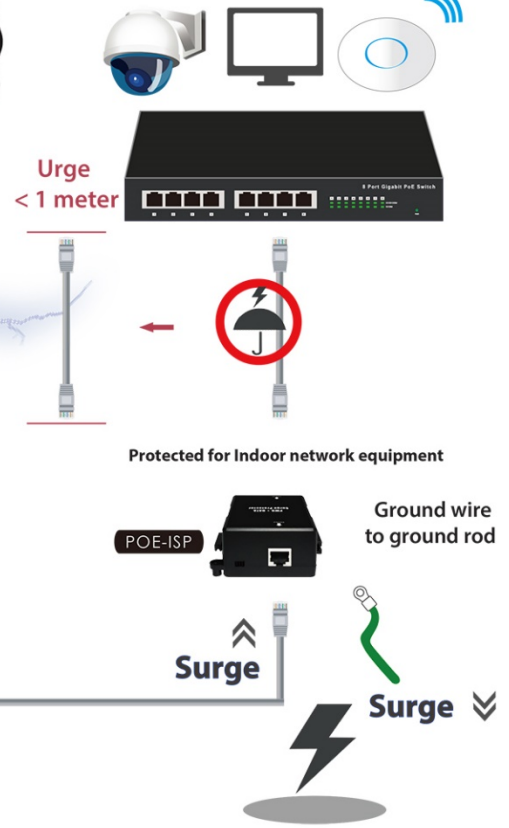The CERIO PoE Surge Protector is simple Plug-and-Play, requires no configuration.

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Amplify your Wireless Network

Product Application

POE-OSP for Outdoor
PoE equipment / WiFi AP / IPCAM

Urge < 1 meter

Protected for Outdoor equipment

Ground wire to ground rod

POE-OSP

Surge
Surge

Lightning Strike

POE-ISP for Indoor
Equipment for PoE Switch /WiFi AP / IPCAM

Urge < 1 meter

Protected for Indoor network equipment

POE-ISP

Ground wire to ground rod

Surge
Surge

Ground wire

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Hardware Overview

Port link to Protected Device

Unit Combination

Ground

Link to Line in Port
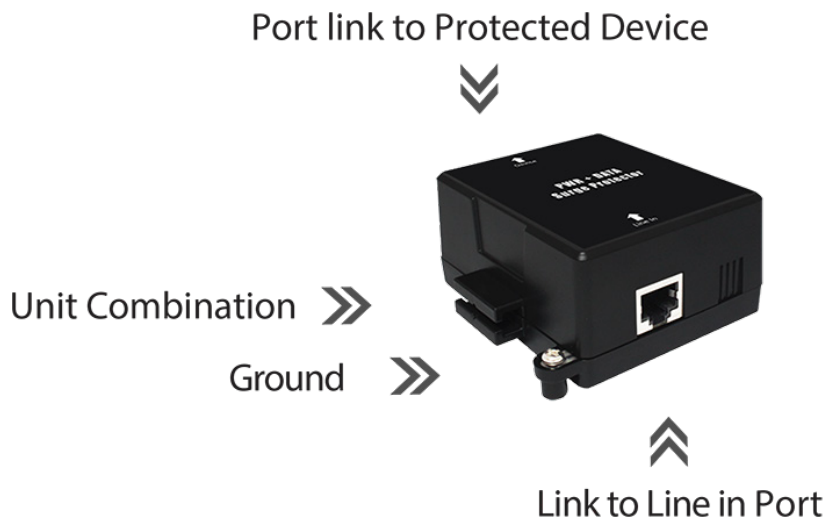
Product Units Combination
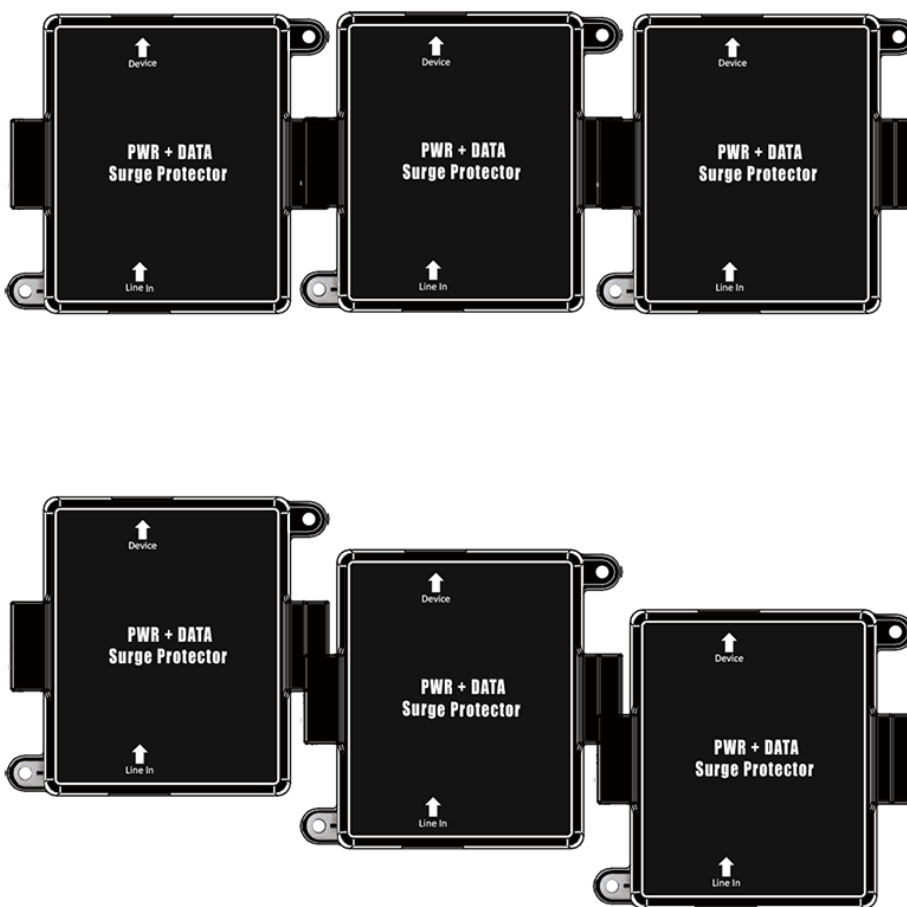
Standards & Hardware Specifications

Standard
IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
IEEE 802.3ab 1000BASE-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

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

Package Contents

Contents	
POE-ISP Main Unit	x1
Warranty Card	x1
Wall mounting screw set	x1
18AWG grounding cable	x1
Quick Installation Guide	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
-10° to 60° C

Storage Temperature
-20° to 65° C

Operating Humidity
5% to 90% non-condensing

Storage Humidity
5% to 90% non-condensing

Dimension (W x D x H)
84.5 x 80 x 39.5mm

Weight (g)
96.2g

Case of material
ABS

Production Location
TW Only

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

Certifications
CE, FCC and RoHS Compliant