HyperLink Wireless Brand Weatherproof PoE Compatible Hi-Power 10/100 Base-T Lightning and Surge Protector - Model: AL-CAT5HPW

Applications

- IP, Network, or Web Camera
- VoIP Telephone
- 10/100 Base-T Networks
- Wireless Access Points, Servers & Outdoor Routers
- Ideal alternative to the Transtector® ALPU-TSU protector

Features

- Three-stage protection
- Failsafe architecture
- Weatherproof ABS enclosure
- Gasketed cover, concealed mounting holes & ground clamp provided on outside of enclosure
- Removable terminal strips and modular RJ45 jacks

RoHS Compliant

Description

The AL-CAT5HPW CAT5 three-stage Lightning Protector provides superior lightning and surge protection for both indoor and outdoor 10/100 Base-T networks. In addition, the unit is compatible with Power-over-Ethernet (PoE) devices. Integral to the design is protection for the two Ethernet data pairs and the PoE DC power feed.

In the data path, the first stage of protection is a differential gas discharge tube. Stage two is a pair of current limiting series resistors and the final stage is a high speed, low capacitance diode clamp array. In the power path, the first stage is comprised of a differential gas discharge tube. Stage two is a dual low pass filter and the final stage is a triple array of bi-directional clamping diodes. The unit supports normal and reverse polarity PoE.

Failsafe Architecture

The Advantage of this three stage surge protector design is the added level of protection due to its large power rating and safety due to its failsafe architecture. In the event of a catastrophic surge event, the series resistors will fuse and the shunt diodes will short. This will safely disconnect the line from the datacom equipment.

The AL-CAT5HPW CAT5 Lightning Protector is compatible with Wireless Access Points, Access Servers and Outdoor Routers, with or without Power-over-Ethernet (PoE) functionality. A ground clamp provides a tie point for earth ground. For maximum protection from lightning on long cable runs, two units can be used, one at each end of the cable.

This unit features a weatherproof ABS enclosure with gasketed cover and concealed mounting holes. Both terminal

strips and modular RJ45 female jacks are provided on the input and output for convenience. To ease installation, the terminal strips can be removed.

Application Note: This unit will not work with Cisco® Power Over Ethernet Injectors. Use L-com's Cisco® compatible BT-CAT5-P1R DC Injector.

Specifications

Mechanical Specifications

Enclosure	Dark Gray ABS
Enclosure Dimensions	6.3 x 3.1 x 2.1 in (160 x 80 x 55 mm)
CAT5 Cable Dia, Range	0.394" to 0.551" (10 to 14 mm)
Ground Clamp	10 AWG Max.
Operating Temperature	-40°C to +80°C (-40°F to +176°F)
Weight	0.38 lbs (.17 kg)
RoHS Compliant	Yes

Electrical Specifications

Connectors	(2) Modular RJ45 Female Jacks and (2) Removable Terminal Strips
Data Lines	Pair 1: Pins 1/2, RJ-45 T1/T2, Terminal Strip Pair 2: Pins 3/6, RJ-45 T3/T4, Terminal Strip
CAT5 Power Pinout Supports normal and reverse polarity	+/- VDC: Pins 4/5, RJ-45 T5/T6, Terminal Strip +/- VDC: Pins 7/8, RJ-45 T7/T8, Terminal Strip
Data Clamping Voltage	58 Volts
PoE Clamping Voltage	58 Volts
PoE Mode Support	Mode B for power