

HyperLink Wireless brand Weatherproof High Power 10/100 Base-T CAT5 Lightning Surge Protector

Applications

- IP, Network, or Web Camera
- VoIP Telephone
- 10/100 Base-T Networks
- Wireless Access Points & Bridges
- Wireless Client Adapters

Features

- Three-Stage Protection, Failsafe Architecture
- 10/100 Base-T CAT5 protection
- Reverse polarity PoE compatible
- Shielded RJ45 jacks
- Industrial grade weatherproof die cast aluminum enclosure with mounting brackets



Model ALW-CAT5HPJ

Description

Superior Performance

The ALW-CAT5HPJ is HyperLink's industrial weatherproof version of its HGLN-CAT5-HP protector. This 3-stage Lightning Protector provides superior lightning and surge protection for indoor and outdoor 10/100 Base-T Ethernet networks. Also compatible with Power-over-Ethernet (PoE) devices, this unit provides protection to both Ethernet data pairs as well as the PoE DC power feed. The unit is not compatible with inverted polarity voltage PoE equipment.



In the data path, the first stage is comprised of 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 pair of filter inductors and the final stage is a pair of bi-directional clamping diodes.

Failsafe Architecture

The Advantage of the ALW-CAT5HPJ 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.

Hyperlink's CAT5 Lightning Protector is compatible with Wireless Access Points, Access Servers and Outdoor Routers that support Power-over-Ethernet (PoE). For maximum protection from lightning on long cable runs, two ALW-CAT5HPJ's can be used -one at each end of the cable. Most PoE capable equipment is not protected from surges on its CAT5 cable.

Industrial Grade Weatherproof Enclosure

This protector features an industrial grade die cast aluminum enclosure with gasketed cover and concealed mounting holes. It includes an aluminum mounting kit and hardware. PG16 cable glands are provided on the enclosure as well as an external ground clamp to provide a tie point for earth ground. The PG16 cable glands are large enough to pass a un-boot RJ45 connector through so pre-terminated cables can be used.



Cisco Compatible

This lightning surge protector is compatible with Cisco legacy network appliance products like Access Points, DC Injectors and other equipment supporting reverse polarity PoE pinouts.

Specifications

Mechanical Specifications

Enclosure Material	Die Cast Aluminum
Enclosure Color	Gray
Ground Lug	10 AWG Max.
Operating Temperature	-40 C (-40 F) to +80 C (+176 F)
Weight	1.15 lb. (.52 kg)
Dimensions (WxHxL)	4.91 x 3.14 x 2.30 (inches) 124.8 x 79.7 x 58.4 (mm)
RoHS Compliant	Yes

Electrical Specifications

Ethernet Connectors	(2) Shielded RJ45 Jack
Data Lines	Pair 1: Pins 1 and 2 Pair 2: Pins 3 and 6
Data Clamping Voltage	+/- 58 Volts
Spare pins/PoE Power	Pin 4 Pin 5 Pin 7 Pin 8
Spare pins/PoE Clamping Voltage	+/- 58 Volts
PoE Mode Support	Mode B using spare pins

ALW-CAT5HPJ

