

HyperLink Wireless Brand Indoor High Power 10/100 Base-T Shielded CAT5 Lightning Surge Protector - Model: HGLN-CAT5-HP

Applications

- IP, network or web cameras
- 10/100 Base-T networks
- VoIP telephone
- Wireless access points, servers and routers

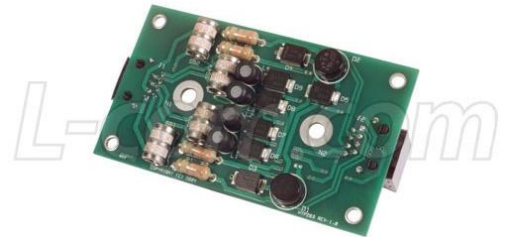
Features

- 10/100 Base-T CAT5 protection
- Three stage protection & failsafe architecture
- Supports PoE mode B for power
- Reverse polarity PoE compatible
- Industrial grade cast aluminum construction with shielded RJ-45 jacks



Description

The HGLN-CAT5-HP 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. This protector is compatible with any variation of PoE including 802.3af and proprietary systems from Airspan, Alvarion and Tranzeo. Also it will work with systems without PoE.



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.

EMI Noise Suppression

The HGLN-CAT5-HP features shielded RJ45 jacks. This along with the metal housing helps reduce the effects of EMI interference. A ground lug and terminal is provided directly on the lightning protector housing, providing superior grounding. A second ground and terminal is provided for strapping multiple units together.

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.

Failsafe Architecture

The Advantage of the HGLN-CAT5-HP 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.

For maximum protection from lightning on long cable runs, two HGLN-CAT5-HP's can be used -one at each end of the cable. Most PoE capable equipment is not protected from surges on its CAT5 cable.

Specifications

Mechanical Specifications

Enclosure Material	Cast Aluminum
Grounding Lug	(2) 12 AWG Max.
Operating Temperature	-40 C (-40 F) to +80 C (+176 F)
Weight	.38 lbs. (.17 kg)
Dimensions (WxHxL)	4.5 x 2.5 x 1.5 (inches) 114.3 x 63.5 x 38.1 (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

