LE6-4S

CAT6 PoE Gigabit 10/100/1000 Base-T Shielded Lightning Surge Protector

The Altelix LE6-4S CAT6 PoE Gigabit, 10/100/1000 Base-T lightning protector provides protection for sensitive communications equipment from surge and transient events due to lightning or electrical power equipment cycling on or off. The unit is compatible with all CAT5/5e and CAT6 Gigabit Ethernet equipment including systems using 802.3af/at Power over Ethernet. PoE DC power can be fed up the data pairs 1/2, 3/6 or data pairs 4/5, 7/8 or all four pairs at once for high power PoE. The four data pairs and PoE DC power feeds are equally protected. For maximum protection one LE6-4S should be placed on each end of a long cable run.

The LE6-4S architecture utilizes the very high surge survivability of ceramic Gas Discharge Tubes. A Gas Discharge Tube can survive surge events 100x higher than a semiconductor device and possess ultra-low parasitic capacitance. The units utilize four 3-element or differential Gas Tubes. A differential Gas Tube offers superior common and differential mode protection and faster response than a 2-element Gas Tube. The unit also features shielded RJ-45 connectors and an industrial grade aluminum enclosure for maximum EMI and RFI rejection. A large terminal provides a low impedance path to earth ground.

Features

- CAT5/6 10/100/1000 Base-T Ethernet Protection
- Low Insertion Loss
- 802.3af/at Mode A/B PoE Support
- Gas Discharge Tubes with Ultra High Surge Rating
- EMI/RFI/EMP Resistant
- Industrial Grade Aluminum Housing

Applications

- Indoor/Outdoor WiFi Access Points and Bridges
- Tower Mounted Radios and CCTV Cameras
- PoE IP Cameras and Network Appliances
- Ethernet PoE Switches and Mid-Spans
- IP Telephones
- Networks with Shielded Cable

Specifications

Ethernet Connectors	Dual Shielded RJ45 Jacks
PoE Voltage Rating	+/-58 Volts Maximum
DC Current Rating	1.5 Amps/Pin
Gas Tube Break Over Voltage	+/-90 Volts Typical
Surge Rating	5,000 Amps
Response Time	<1us
Enclosure Material	Cast Aluminum
Ground Lug	12 AWG Maximum
Operating Temp	-55C (-49F) to 85C (185F)
Weight	0.28 lbs. (0.13 kg)
Dimensions	3.6x1.4x1.2 in. (91.4x35.5x38.1 mm)
RoHS Status	Compliant

Altelix LLC USA: 866-660-WIFI (9434) +1 561-660-9434 sales@altelix.com www.altelix.com
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