

1000BASE-T PoE+ LAN Protector

Part Number: **LAN-CAT5e-P+ II (R)**



Features:

- Gigabit Ethernet / LAN Protector Against Lightning and Other Over Voltage Surges
- Meets IEC 61643-21, 61000-4-5 Category C2 & D1 Impulse Requirements
- For Power Over Ethernet Plus (PoE+) Applications
- High Speed 1000BASE-T (1000Mbps Data Rate)
- Backwards Compatible with 100BASE-TX and 10BASE-T
- CAT5 and CAT5e Compatible
- All Pins Individually Protected
- 35mm DIN Rail or Surface Mountable
- Deterioration Checking (tester sold separately)



RoHS Compliant and UL 497B Listed (File E140906)

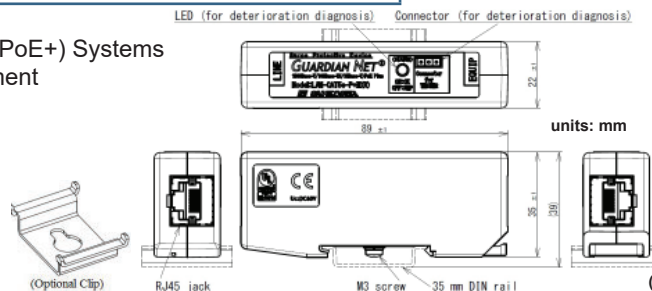
Electrical Characteristics	
Data Rates / Protocols	1000BASE-T (GbE) (IEEE 802.3ab) 100BASE-TX (IEEE 802.3u) 10BASE-T (IEEE 802.3i) PoE (Power Over Ethernet - IEEE802.3af - Alternative A & B) (60W max) PoE+ (Power Over Ethernet Plus - IEEE802.3at - Alternative A & B)(60W max)
Frequency Range	DC to 100MHz
Attenuation	≤ 1.0dB (DC to 100MHz)
Near-end Crosstalk Attenuation	> 32.3dB (Between each line)
Bit Error Rate	< 0.01%
Maximum Continuous Operating Voltage (U _c)	60V _{DC} (Between each line and Earth)
Current Rating (I _n)	2400mA (600mA per pair)
Technology Type	Gas Discharge Tube
DC Breakdown Voltage	160V ~ 300V (100V/s) (Between each line and Earth)
Impulse Voltage Protection Level (U _p)	≤ 500V (1.2/50μs 10kV) (Between each line and Earth)
Impulse Durability	IEC 61643-21 Cat. C2 (8/20μs): 5kA (10 times) IEC 61643-21 Cat. D1 (10/350μs): 2.5kA (2 times)
AC Durability	5 times (at 50Hz, 0.5A, 1 second duration)
Impulse Reset	≤ 30ms (60VDC, 600mA) (Between PoE power supply lines)
Insulation Resistance	> 1,000MΩ (60VDC) (Between each line and Earth)
Deterioration Diagnosis (optional tester unit required)	LED ON: Unit Working LED OFF: Replace Unit

Mechanical Characteristics	
Connector Type	RJ45 (8P8C - 8 position 8 contact)
Mounting Method	35mm DIN Rail, Surface, or Clip (optional)
Grounding	External Grounding Thru DIN Rail or M3 Screw
Weight	55g (1.94oz)
Case Material	ABS Plastic, UL94 V-0 Flame Rating

Environmental Characteristics	
Operating Temperature Range	-35°C to +80°C -31°F to +176°F
Relative Humidity	≤ 90% (non-condensing)

Applications:

- Power Over Ethernet Plus (PoE+) Systems
- Remote Networking Equipment
- Routers and Access Points
- Office and Home Networks
- Security Camera Systems
- Video Streaming Systems
- WiMax Systems
- GigE Data Lines
- IP Phone Systems



(Deterioration Tester Sold Separately)

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