

Outdoor IEEE 802.3at modes A & B Gigabit Power-Over-Ethernet (PoE) Lightning Protection Device

The NexTek IEEE 802.3at device is designed to protect sensitive PoE end points from lightning damage that may couple onto the CAT5/6 data cables typically used in many wireless applications.

Lightning energy that is coupled onto the cable lines whether in common or differential modes is safely diverted to ground by using transient protection circuitry within the protection device. The

device is normally a passive device and only becomes operational under excessive transient conditions. For additional information please contact NexTek directly or your local representative.

Key Features

- Multiple Strike Capability
- Weatherized IP68 Enclosure
- Polycarbonate Housing
- Rugged and Lightweight Design
- Surge Protection on All Lines.
- Ease of Access – Hinged Design
- RoHS Compliant
- Pole or Panel Mountable

Applications

- Remote Radio Heads, RRH
- PoE Equipment
- Telco Backhaul
- Wireless IP Security Cameras Networks
- Internet Service providers, ISPs
- Point to Point Radios
- Enterprise Networks
- Wireless LAN Access Points and Bridges



Electrical Specifications

Connectors:	RJ45 Shielded
Impedance	100 Ohms nominal
DC Resistance	2 Ohms
Operating Voltage, Nominal	±48VDC (±60VDC MAX)
Operating Current	27ADC
DC Current	600mA Max per mode
Surge Test Method	IEC 61000-4-5
Max Surge Current:	
One Time Discharge:	300A, 10/1000µS Waveform per Telcordia GR-1089
	5kA, 8/20µ Waveform per IEC-61000-4-5
Multi Strike: (10X)	100A, 10/1000µS Waveform per Telcordia GR-1089
	3kA, 8/20µ Waveform per IEC-61000-4-5
Let-Through Voltage	
@100A, 10/1000µS	Line-Line <150V Peak
	Line-Ground <85V Peak
@3A, 8/20µS	Line-Line <150V Peak
	Line-Ground <85V Peak
Data Test Method:	Extended RFC2544 Tests
Protected Pin Pairs:	(1-2), (3-6), (4-5), (7-8)
Protected Pins to Chassis Ground:	All Pins
Data Pin Pairs:	(1-2), (3-6), (4-5), (7-8)
DC Pin Pairs:	Line (1-2), (4-5), Return (3-6), (7-8)

Environmental Specifications

Temperature Range	-40°C to +85°C
Weatherization	IP68
Relative Humidity	0 to 90% noncondensing

Mechanical Specifications

Dimensions	L x W x H
Weight	11 Oz
Grounding Nut Torque	25-30 lbs.-in
Mounting	Pole or Panel

Regulatory Compliance

RoHS	YES
NEBS	Level 3 Compliance

Mechanical Outline

