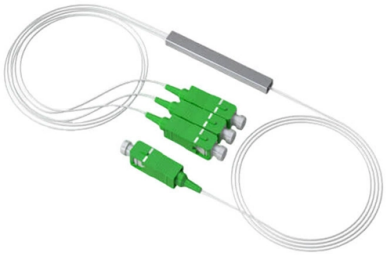
PoE surge protector switch



Overview

Tripp Lite PoE Surge Protectors for indoor or outdoor use protect edge network devices, including PoE cameras and LAN access points, from power surges, ESD and cable discharge events.

Key Takeaways

A PoE surge protector safeguards Power over Ethernet switches and connected devices from voltage spikes, lightning, and electrical disturbances while maintaining network performance. What a PoE Surge Protector DoesA PoE surge protector (or PoE SPD) is designed to protect Ethernet-based systems from transient overvoltage caused by lightning, switching operations, or nearby electrical disturbances.

Since Po

E transmits both power and data over the same cable, surges can damage sensitive circuits in switches, IP cameras, and access points. The surge protector limits overvoltage to a safe level and diverts excess current to the grounding system, ensuring network stability and preventing equipment failure. Why Surge Protection is ImportantPower surges can originate from: Lightning strikes near outdoor Ethernet cables, inducing high voltage even without a direct hit.

Voltage spikes from power outages or switching events. Electrical noise from large motors or HVAC systems. Without proper protection, these surges can travel along Ethernet cables, potentially damaging PoE switches or connected devices.

Ordinary power strips do not provide adequate protection for PoE networks.

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Key Features to Consider

When selecting a PoE surge protector: Network speed compatibility: Ensure support for Gigabit Ethernet (10/100/1000 Mbps) or higher to avoid signal loss.

Po

E standard compliance: IEEE 802. 3af, 802. 3at, or 802.

3bt to match your devices' power requirements. Surge handling capability: Check maximum discharge current (Imax), nominal discharge current (In), and voltage protection level (Up),. Installation environment: Indoor protectors shield switches from surges coming from devices, while outdoor protectors guard against surges entering from external sources like lightning.

Installation ConsiderationsBi-directional protection: Install surge protectors both at the PoE switch (indoor) and at powered devices (outdoor) to prevent surges from traveling in either direction. Cable type: Use shielded Ethernet cables (STP) when possible; some surge protectors, like DITEK's MRJ series, do not require separate grounding when used with STP. Point-of-use placement: Surge protectors can be installed at the equipment end, ahead of injectors, or midspan devices for optimal protection.

Product ExamplesDITEK MRJ Series: Protects 10GbE PoE connections, suitable for indoor and outdoor installations, with multi-stage hybrid protection. Industrial-grade surge protectors: Available on platforms like Amazon, offering high discharge current ratings for lightning and ESD protection.

Summary

A Po

E surge protector is essential for maintaining the reliability and longevity of PoE switches and connected devices. Proper selection based on network speed, PoE standard, and installation environment, along with bi-directional protection, ensures that your Ethernet network remains safe from transient surges and electrical disturbances.

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The surge protector can shield your devices from lightning, surges, and spikes, letting you know your devices are protected via the green light in the middle. It comes with a 5-foot power cord

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