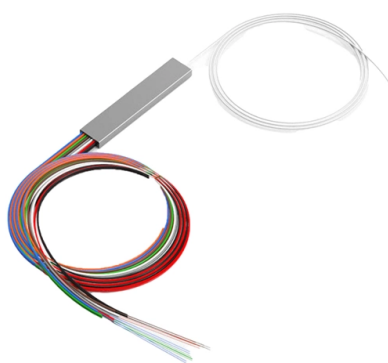


Poe Broadband Switch



Overview

PoE Switches to Simplify Your Power and Network Setup Streamline your network with NETGEAR PoE switches that deliver power and data over one cable. Choose.

Key Takeaways

A PoE broadband switch delivers both data and electrical power over a single Ethernet cable, simplifying network setups for devices like IP cameras, VoIP phones, and Wi-Fi access points. What is a PoE Switch?

A PoE (Power over Ethernet) switch is a network switch that can transmit electrical power along with data over standard Ethernet cables. This eliminates the need for separate power supplies for connected devices, allowing for cleaner installations and easier deployment in locations without nearby power outlets. PoE switches automatically detect whether a connected device is PoE-capable and supply power accordingly.

PoE Standards

- 802.3af (PoE): Provides up to 15.4 watts per port over CAT5e/CAT6 cables, suitable for most VoIP phones and basic network devices.
- 802.3at (PoE+): Provides up to 30 watts per port, supporting higher-power devices like advanced Wi-Fi access points and PTZ cameras.



- 802.3bt (PoE++): Offers even higher power, up to 60–100 watts per port, for devices such as high-end network cameras, LED lighting, or networked displays . PoE++ is backward compatible with PoE and PoE+ devices. All standards can deliver power up to 100 meters over Ethernet cabling.

Types of PoE Switches

- Unmanaged PoE Switches: Simple plug-and-play devices, ideal for small offices or home networks. They provide power and data without configuration options .
- Managed PoE Switches: Offer advanced features like VLANs, QoS, port monitoring, and remote management, suitable for larger or enterprise networks .
- Industrial PoE Switches: Designed for harsh environments, with ruggedized cases and extended temperature ranges, often used in automation or outdoor security systems .

Key Considerations When Choosing a PoE Switch

- Port Count: Determine how many devices you need to connect; switches range from 4 to 24+ ports .
- Power Budget: Ensure the total wattage of the switch can support all connected devices simultaneously .
- Cable Type: Use CAT5e or CAT6 for optimal power delivery and data performance .
- Management Features: Decide if you need a managed switch for network control or an unmanaged switch for simplicity .
- Device Compatibility: Match the PoE standard to the power requirements of your devices (PoE, PoE+, or PoE++), .

Common Applications

- IP Cameras: Simplifies installation in areas without power outlets.
- VoIP Phones: Reduces cable clutter and centralizes power management.
- Wi-Fi Access Points: Enables flexible placement for optimal coverage.
- Industrial Automation: Powers sensors and controllers in factories or outdoor environments . PoE broadband switches are essential for modern network setups, providing both data connectivity and power efficiently, reducing installation complexity, and supporting a wide range of devices. Choosing the right switch depends on your network size, device power requirements, and management needs .

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