Eight-port gigabit access switch



Overview

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Key Takeaways

An 8-port gigabit switch is a compact network device for connecting multiple devices at high speed, while an access switch is a managed switch that provides network control, VLANs, and PoE for end devices. 8-Port Gigabit Switch OverviewAn 8-port gigabit switch allows you to connect up to eight devices via Ethernet cables, providing 1 Gbps speeds per port. These switches come in two main types: Unmanaged switches: Simple plug-and-play devices with no configuration required, ideal for home networks or small offices.

Example: NETGEAR GS308, which features a fanless metal design, auto-negotiation, and energy-efficient technology for reliable connectivity. Managed or Smart switches: Offer configuration options such as VLANs, QoS, IGMP Snooping, and PoE (Power over Ethernet) to power devices like IP cameras, VoIP phones, or access points. Example: TP-Link TL-SG108PE provides 4 PoE+ ports with 30W per port and 4 non-PoE ports, along with web-based management for traffic control.

Access Switch Features

An access switch is typically deployed at the edge of a network to connect end devices to the core network. Key features include: VLAN support: Segments network traffic for security and efficiency. PoE/PoE+: Powers devices directly through Ethernet cables, reducing the need for separate power supplies.

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Management capabilities: Allows monitoring, configuration, and troubleshooting of network traffic.

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P ports: Optional fiber connections for extending network reach beyond standard copper cabling.

Choosing Between Switch Types

Home or small office: An unmanaged 8-port gigabit switch is sufficient for basic connectivity and plug-and-play simplicity. Small business or advanced setups: A managed access switch with PoE and VLAN support is recommended to handle multiple devices, prioritize traffic, and provide centralized control.

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E needs: If powering IP cameras or access points, choose a switch with PoE+ ports and sufficient power budget (e.g., 62W total for TP-Link LS108GP),. Practical RecommendationsTP-Link TL-SG108PE: 8-port smart managed switch with 4 PoE+ ports, VLAN, QoS, and fanless design.

NETGEA

R GS308: 8-port unmanaged switch, plug-and-play, energy-efficient, ideal for home or small office. TP-Link LS108GP: 8-port PoE+ desktop switch with extend mode for long-distance PoE deployment, suitable for surveillance or large-area coverage. In summary, 8-port gigabit switches provide high-speed connectivity for multiple devices, while access switches add management, PoE, and network segmentation features, making them suitable for more complex or business-oriented networks.

Choosing the right switch depends on your network size, device requirements, and need for management or PoE capabilities.

Article Content

8-Port Gigabit Desktop Switch with 8-Port PoE+

Related Video Reference

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