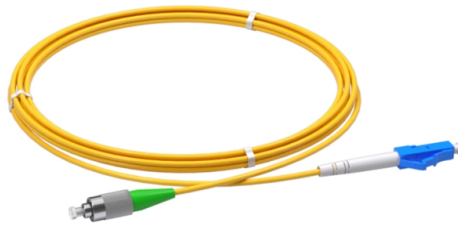


Managed PoE Switch with 16 Ports



Overview

Amazon.com: 16 Port Managed SwitchPoE Switch, 16 Port Managed POE+ Ethernet Switch (16 POE+ Ports+2 Gigabit Uplink,1 x 1.25G SFP), 240W Built-in Power, 16.

Key Takeaways

A 16-port managed PoE switch provides both network management capabilities and Power over Ethernet to connected devices, ideal for small to medium business networks.Key Features



Managed Control: Unlike unmanaged switches, a managed switch allows you to configure VLANs, set up Quality of Service (QoS) rules, monitor port statistics, and create link aggregation groups. This is essential for isolating traffic, prioritizing critical applications, and troubleshooting network issues efficiently .

PoE Support: Managed PoE switches can supply power directly to devices such as IP cameras, VoIP phones, and wireless access points, eliminating the need for separate power adapters. For example, the Eaton NGS16C2POE-1 supports Type 2 PoE+ with up to 30W per port and a total PoE budget of 220W . NETGEAR's Easy Smart 16-Port PoE+ switch provides 231W total power across 15 PoE+ ports .

Port and Speed Specifications: Most 16-port managed PoE switches offer Gigabit Ethernet (10/100/1000 Mbps) on all ports, with auto-negotiation for optimal speed. Many models include SFP uplink ports for fiber connections, enhancing scalability and network flexibility .

Layer 2 Functionality: Managed switches typically support Layer 2 features such as VLANs, trunking, port monitoring, and link aggregation. This improves network efficiency, reduces congestion, and allows for better traffic management .

Energy Efficiency: Some switches automatically shift unused ports to a low-power state without interrupting network connectivity, helping reduce energy consumption .

Use Cases

- **Small to Medium Business Networks:** Ideal for offices needing centralized control over multiple devices.
- **IP Surveillance Systems:** Power and connect multiple cameras without separate power sources.
- **VoIP Deployments:** Simplifies installation of phones by providing both data and power over a single cable.
- **Wireless Access Points:** Supports deployment in areas without nearby AC outlets.

Considerations When Choosing

- **PoE Budget:** Ensure the total PoE wattage meets the requirements of all connected devices.
- **Management Interface:** Check if the switch offers web-based, mobile, or CLI management.
- **Scalability:** Look for SFP ports or stacking options if you plan to expand your network.
- **Noise and Placement:** Some switches operate silently, suitable for office environments .

Popular Options

- **Eaton NGS16C2POE-1:** 16 Gigabit ports, 220W PoE budget, Layer 2 management, SFP uplinks .
- **NETGEAR Easy Smart 16-Port PoE+ Switch:** 16 ports, 231W PoE budget, web-managed, 1 SFP port .

- Other 16-Port Managed Switches: Available on Amazon and Netgear's SMB lineup, offering various PoE budgets, uplink options, and management features . A 16-port managed PoE switch is a versatile solution for powering and managing multiple network devices efficiently, providing both network control and simplified deployment for PoE-enabled equipment.

Article Content

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16-Port Managed Gigabit Ethernet Switch, PoE, Layer 2, 220W | Eaton

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