

48 Ethernet Ports



Overview

A reliable, easy-to-use switch without the complexity of management, the TL-SG1048 provides 48 10/100/1000Mbps ports.

Key Takeaways

A 48-port Ethernet switch provides high-density connectivity for large networks, supporting multiple devices with options for PoE, managed control, and high-speed uplinks.

A 48-port Ethernet switch is designed to connect up to 48 devices in a network, making it ideal for offices, classrooms, data centers, or collaborative workspaces . These switches come in managed, smart-managed, and unmanaged models, allowing for varying levels of control over network traffic, VLAN segmentation, Quality of Service (QoS), and security . They can be rack-mounted or desktop-mounted depending on the deployment environment.

Key Features

- **Power over Ethernet (PoE):** Many 48-port switches provide PoE or PoE+ capabilities, delivering both data and power over a single cable to devices like IP cameras, VoIP phones, and wireless access points . Total PoE budgets vary; for example, the NETGEAR GS348PP offers 24 PoE+ ports with a 380W budget, while the TP-Link TL-SG3452P provides 48 PoE+ ports with a 384W budget .
- **Speed and Uplinks:** Standard models offer Gigabit Ethernet, while advanced models include multigigabit ports and SFP/SFP+ uplinks for fiber connections, supporting high-speed backhaul and network scalability .

- **Management Options:** Unmanaged switches are plug-and-play, ideal for simple setups. Smart-managed switches provide GUI-based VLAN and traffic control, while fully managed L2+ or L3 switches allow static routing, IGMP snooping, and integration with centralized SDN platforms .
- **Redundancy and Reliability:** Some models offer redundant power supplies or fanless designs for silent operation, though hot-swappable power is typically found in high-capacity or modular switches .

Use Cases

- **Small to Medium Businesses:** Connect multiple workstations, IP phones, and access points efficiently.
- **Data Centers:** Suitable for Top-of-Rack (ToR) or edge aggregation roles, though not typically used as core switches in large-scale deployments .
- **Surveillance and Security:** PoE switches can power IP cameras directly, simplifying installation and reducing cabling requirements .
- **Educational and Collaborative Environments:** Supports classrooms, labs, and shared workspaces with high device density.

Considerations

- **PoE Budget:** Ensure the total PoE power meets the requirements of all connected devices; exceeding the budget will prevent additional devices from receiving power .
- **Thermal Management:** High-density switches generate heat; proper ventilation or fanless designs should be considered based on deployment.
- **Future Scalability:** Managed switches with VLAN and SDN support allow easier network expansion and traffic segmentation.

Popular Models

- **NETGEAR GS348PP:** 48 Gigabit ports, 24 PoE+ ports, 380W PoE budget, plug-and-play .
- **TP-Link TL-SG3452P:** 48 PoE+ ports, 384W PoE budget, 4 Gigabit SFP uplinks, L2+ managed with SDN integration .
- **UniFi USW-48-PoE:** Layer 2 PoE switch with fanless design for silent operation .
- **Dell 48-Port Multigigabit Switches:** Stackable, high-speed connectivity with advanced Layer 3 features . A 48-port Ethernet switch is a cornerstone for building robust, high-capacity networks, offering flexibility, scalability, and the ability to power devices directly through PoE, making it suitable for a wide range of professional and enterprise environments .

Article Content

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TRIPP LITE Eaton 48-Port Patch Panel, 2U Rack Mount, Cat6, 1 Gbps, RJ45 Ethernet, 110 Punchdown Termination, Color Coded

Netgear GS348PP 48-Port Gigabit Ethernet Unmanaged PoE+

Netgear GS348PP 48-Port Gigabit Ethernet Switch offers 24 PoE+ ports with 380W power, plug-and-play setup, and quiet operation.

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NETGEAR 48-Port Gigabit Ethernet Smart Managed Network Switch

About this item GIGABIT ETHERNET PORTS: Features 48 x 1.0Gbps Ethernet ports for high-speed connectivity. Auto-negotiating

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Product Description Introducing the NETGEAR GS348PP 48-port Gigabit Ethernet Unmanaged PoE+ Switch with 380W PoE budget

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