

Article Overview

A 24-port switch with optical ports typically combines multiple Gigabit Ethernet ports with SFP or SFP+ fiber ports, offering high-speed connectivity, Layer 2/3 management, and advanced network features.

Overview

24-port switches with optical ports are designed for enterprise, data center, or high-performance networking. They usually feature:

- o 24 Gigabit Ethernet ports for standard network devices.
- o 2-24 SFP or SFP+ optical ports for fiber connectivity, supporting 1 Gbps or 10 Gbps speeds depending on the model .
- o Layer 2/3 management capabilities, including VLANs, Spanning Tree Protocol (STP/RSTP/MSTP), link aggregation, and QoS .
- o Stacking support in some models, allowing multiple switches to be managed as a single unit .

Key Features

- o High-Speed Fiber Connectivity: Optical ports (SFP/SFP+) allow long-distance connections over fiber, ideal for linking switches across buildings or data centers .
- o PoE Support: Some switches provide Power over Ethernet (PoE) on Ethernet ports, useful for powering IP cameras, phones, or access points .
- o Advanced Security and Management: Features include SNMP, SSH, web-based management, DoS attack prevention, and port isolation .
- o Redundancy and Reliability: Hot-swappable fans and power supplies, dual-boot OS options, and link load balancing enhance uptime and network stability .

Example Models

- o D-Link DXS-3400 Series: 24-port Layer 3 stackable switch with 10G fiber support, modular design, and Data Center Bridging features .
- o Wayos WS9328GX: 24 Gigabit Ethernet ports plus 4 SFP+ 10G optical ports, Layer 3 managed, supports link aggregation and advanced QoS .
- o MikroTik CRS328-24P-4S+RM: 24 Gigabit Ethernet ports with PoE options and 4 SFP+ ports for 10 Gbps fiber connectivity, dual OS support (RouterOS/SwOS), .
- o Hikvision DS-3E1526P-SI: 24 Gigabit PoE ports and 2 fiber optical ports, Layer 2 management, port isolation, and PoE watchdog for IP cameras .
- o GAOtek 24-Port Gigabit Optical Fiber Switch: 24 SFP ports, 92 Gbps switching capacity, suitable for

high-performance enterprise networks .

Use Cases

- o Data Center Uplinks: Optical ports provide high-speed connections between switches or to servers.
- o Enterprise Networks: Combines standard Ethernet for desktops and fiber for backbone links.
- o Surveillance Systems: PoE switches with fiber uplinks support IP cameras over long distances.
- o Campus Networks: Fiber ports enable inter-building connectivity while maintaining high port density. These switches offer flexibility, high bandwidth, and advanced management, making them suitable for modern network infrastructures requiring both copper and fiber connectivity.

The OSD2524P is a Layer 2 managed 26-port industrial ethernet switch offering Power over Ethernet meeting the latest IEEE802.3bt

24 Port PoE Switch PoE switches are great for powering VoIP phones and IP cameras. A 24-Port PoE Switch can greatly reduce the

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