Huawei 24-Port Fiber Optic Switch



Overview

A practical, no-fluff guide to selecting a Huawei 24-port switch—covering PoE, Layer 3, SFP+, and real-world trade-offs.

Key Takeaways

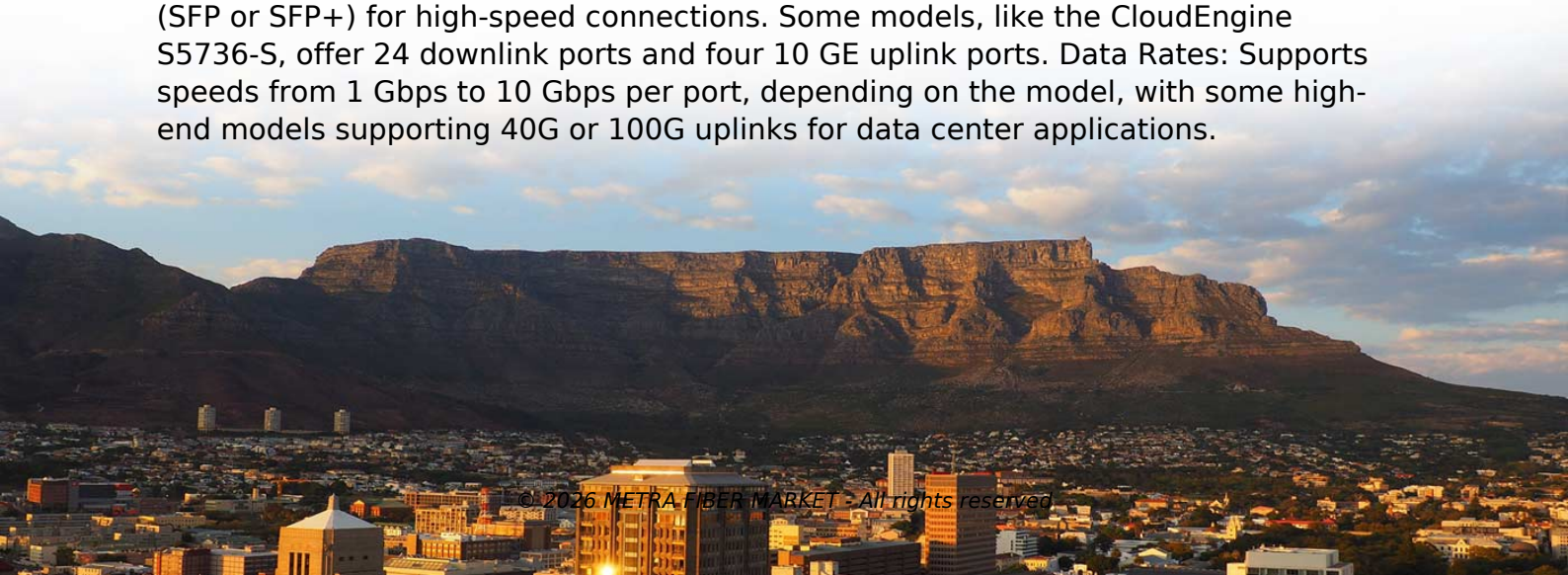
Huawei 24-port fiber optic switches are high-performance, managed network devices designed for campus, enterprise, and data center networks, offering flexible port configurations, PoE support, and advanced Layer 2/3 features.

Overview

Huawei 24-port fiber optic switches are designed to connect multiple devices within a network, including computers, IP phones, Wi-Fi access points, and IoT devices, while ensuring efficient data traffic management and minimal congestion. These switches are available in unmanaged, managed, and smart configurations, allowing network administrators to choose the appropriate level of control and flexibility based on network complexity.

Key Features

Port Configuration: Typically 24 fiber optic ports, often with additional uplink slots (SFP or SFP+) for high-speed connections. Some models, like the CloudEngine S5736-S, offer 24 downlink ports and four 10 GE uplink ports. Data Rates: Supports speeds from 1 Gbps to 10 Gbps per port, depending on the model, with some high-end models supporting 40G or 100G uplinks for data center applications.



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Layer 2/3 Capabilities: Many Huawei 24-port switches support VLANs, QoS, routing, and IPv6, enabling advanced network segmentation and traffic management. Power over Ethernet (PoE): Certain models provide PoE or PoE+, delivering up to 90 W per port to power devices like access points and cameras without separate power supplies. Management and Automation: Managed switches support web GUI, CLI, Zero Touch Provisioning (ZTP), and RESTful APIs, simplifying configuration and monitoring.

Scalability: Features like Right-To-Use (RTU) licenses allow flexible upgrades of port speeds and capabilities, supporting Pay-As-You-Grow deployment strategies.

Deployment Scenarios

Campus Networks: Acts as an access or aggregation switch, connecting end devices and Wi-Fi APs while supporting high-speed uplinks to core switches. Metropolitan Area Networks (MANs): Can serve as an access switch for distributed networks requiring fiber connectivity. Data Centers: High-end models like the CE8800 series provide 24-port SFP+ or QSFP28 subcards, supporting 10G/25G/40G/100G connections for core or aggregation layers.

Advanced Features

Telemetry and Network Analytics: Integration with Huawei's CampusInsight allows real-time monitoring and rapid detection of network issues. Security: Supports MAC address filtering, port security, and ACLs to protect against unauthorized access. Stacking and High Bandwidth: Some models provide stack bandwidth up to 480 Gbps using additional uplink cards, enabling high-performance, scalable networks.

Summary

Huawei 24-port fiber optic switches are versatile, high-performance devices suitable for small-to-large enterprise networks, campus environments, and data centers. They combine flexible port configurations, PoE support, advanced Layer 2/3 features, and scalable management options, making them ideal for modern networking requirements in the Wi-Fi 6 era and beyond.

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