

Huawei Gigabit Optical Switch to Ethernet Switch



Overview

Network Switches | Huawei EnterpriseHuawei campus switches are ideal for building future-proof campus networks with simplified management, CloudEngine S575.

Key Takeaways

Huawei hybrid optical-electrical switches allow seamless connectivity between fiber (optical) and Ethernet networks, enabling flexible deployment in campus and data center environments.Hybrid Optical-Ethernet Switches

Huawei offers CloudEngine S5735-S-V2 series hybrid switches, which are designed to bridge optical and Ethernet networks. These switches provide all GE downlink ports, DB50 ports, 10GE uplink ports, and stack ports, allowing both fiber and copper connections in a single device. Optical ports on the front panel connect to fiber management trays via LC jumpers, while DB50 ports on the rear panel handle hybrid cabling, making them suitable for access or aggregation layers in campus networks or metropolitan area networks .

Gigabit Ethernet Access Switches

For purely Ethernet connectivity, Huawei provides S5720-LI and S5700-LI series switches, which are energy-efficient gigabit Ethernet switches with flexible GE access ports and 10GE uplinks. These switches support intelligent stacking (iStack), flexible Ethernet networking, and advanced security controls, making them ideal for desktop access or small-to-medium enterprise deployments . The S5700-LI-BAT variant even includes built-in battery support for uninterrupted service in environments with frequent power interruptions .

High-Performance Access Switches

The CloudEngine S5755-H series offers 24 or 48 10/100/1000BASE-T downlink ports and 25GE/100GE uplinks, supporting VXLAN-based network virtualization and MACsec security. These switches are optimized for Wi-Fi 6/7 deployments and can serve as high-performance access switches in healthcare, retail, ISP, and other industries .

Deployment Considerations

- Uplink/Downlink Configuration: Use optical uplinks to connect to core switches or data center aggregation layers, while Ethernet downlinks connect to end devices.
- Hybrid Cabling: Optical ports require LC jumpers; DB50 ports handle hybrid fiber-copper connections.
- Stacking and Management: iStack allows multiple switches to operate as a single logical unit, simplifying management and scaling.
- Power and Redundancy: Battery-supported models or fan-free designs reduce downtime and noise, especially in small equipment rooms .

Summary

To connect a Huawei gigabit optical switch to an Ethernet network, hybrid optical-electrical switches like the CloudEngine S5735-S-V2 are the most versatile solution. For purely Ethernet access, S5720-LI or S5700-LI series switches provide cost-effective, energy-efficient connectivity. High-performance access switches like S5755-H are suitable for environments requiring high throughput, virtualization, and advanced security. These options ensure smooth integration between optical and Ethernet infrastructures while supporting flexible deployment and simplified management .

Article Content

Optical Modules for Huawei S Series Switches

To determine whether optical modules delivered for Huawei switches before July 1, 2013 are certified ones, contact Huawei technical

CloudEngine S5736-S Series Switches | Huawei Enterprise

CloudEngine S5736-S Series Switches are next generation standard all-optical GE switches, with 48 downlink optical ports and four

Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper

CloudEngine S5732-H Series | Huawei Enterprise

The CloudEngine S5732-H Series Hybrid Optical-Electrical Switch is a new generation of 10 GE access switch, featuring 24 optical

Huawei S5330-HI Series Switches Product Brochure

Huawei S5330-HI Series Switches Product Huawei S5330-HI gigabit ethernet switches are Huawei-developed next-generation agile

Fiber Optic Network Switches

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Troubleshooting Interface Down Problems

If the alarm message "Non-Huawei-Certified Transceiver" or "Non-Huawei-Ethernet-Switch-Certified Transceiver" is displayed, the

Optical Terminal

The OptiXstar product series extends optical connectivity to every home, enterprise, and campus, bringing families closer and

S1700 Series Switches

Huawei S1700 series enterprise switches provide energy-saving Fast Ethernet access for small businesses and branch locations.

Huawei CloudEngine S5735-S-V2 Series Hybrid Optical-Electrical

Huawei CloudEngine S5735-S-V2 series hybrid optical-electrical switches are standard gigabit Ethernet switches that provide all GE

CloudEngine S5700 Series Switches Product Description (V600)

CloudEngine S5700 series Ethernet switches (S5700 for short) are Huawei's next-generation energy-saving gigabit Ethernet

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