Huawei Switch Optical Port Electronic Port



Overview

What Is an All-Optical Ethernet Switch?

This is where Huawei's all-optical Ethernet switches come in. An all-optical Ethernet switch provides both optical.

Key Takeaways

Huawei hybrid optical-electrical ports allow flexible use of either optical or electrical connections on the same interface, supporting high-speed access and PoE for Wi-Fi 6 APs and other devices.

Overview of Hybrid Optical-

Electrical Ports

Huawei switches, such as the CloudEngine S5732-H series, feature hybrid optical-electrical ports that combine optical (SFP/SFP+) and electrical (Base-T) connectivity on the same interface. These ports provide flexibility in network deployment, allowing a single port to operate either as an optical or electrical interface, but not simultaneously.

The S5732-

H series includes 24 optical and 24 electrical downlink ports, along with high-speed uplinks (25G, 40G, or 100G) and an extended slot for subcards.

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Switching Between Optical and Electrical Modes

On Huawei devices with combo interfaces, the default mode is usually electrical. To switch to optical mode: Enter interface view on the switch. Execute the command: combo enable fiber to activate the optical interface.

To revert to electrical mode, use: undo combo enable fiber. Ensure the same configuration is applied on the peer device to maintain connectivity. After switching, the optical interface can use a compatible GE SFP or SFP+ module for data transmission.

Optical-

Electrical Synergy and PoEHuawei hybrid switches support optical-electrical synergy, enabling PoE++ delivery up to 60 W over distances up to 300 meters when using hybrid cables. This is particularly useful for Wi-Fi 6 APs and IP cameras, reducing the need for additional power infrastructure. Optical fiber connections provide high-speed access up to 10 Gbit/s, and upgrading bandwidth (e.g., to 25G, 40G, or 100G) can be achieved by replacing the optical module without changing the switch hardware.

Module Compatibility

Only Huawei-certified optical or copper modules should be used to ensure reliable transmission and service stability. Certified modules are labeled with "HUAWEI" and meet the required standards for 10GE, 40GE, and 100GE speeds. Using non-certified modules may result in connectivity issues or reduced performance.

Deployment Scenarios

Hybrid optical-electrical ports are ideal for: Campus networks: Aggregation or access switches connecting wired and wireless devices. Small and micro data centers: Flexible high-speed access for servers and APs.

Long-distance Wi-

Fi 6 AP deployment: Optical links provide high-speed uplinks, while electrical ports deliver PoE to APs. These ports allow network administrators to adapt to different cabling environments and future-proof the network by supporting both current and higher-speed connections.

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Article Content

What Is an All-Optical Ethernet Switch?

This is where Huawei''s all-optical Ethernet switches come in. An all-optical Ethernet switch provides both optical uplink and downlink ports, and uses optical fibers that feature high

CloudEngine S5736-S Series Switches | Huawei Enterprise

Feature-rich with software-defined port speeds. CloudEngine S5736-S Series Switches are next generation standard all-optical GE switches, with 48 downlink optical ports and four 10 GE uplink ports.

Optical Module Solutions for Huawei S5700/S5720 Series Switches

This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.

How To Switch Optical/Electrical Mode On Huawei Router Combo Ports

A Combo port, also known as an optical-electrical multiplexing port, consists of one optical port and one electrical port on the device panel, which share a single internal forwarding

Huawei Switches Viewing Optical Port Receiving and Sending

Use the command display transceiver to view the optical module information of all optical ports, and use the command display transceiver interface interface-type interface-number to view the

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 modules cannot ensure transmission reliability and may affect service

Huawei CloudEngine S5732-H Series Hybrid Optical-Electrical

CloudEngine S5732-H hybrid optical-electrical switch is brand-new full-10GE switch developed by Huawei for the Wi-Fi 6 era. The CloudEngine S5732-H builds on Huawei''s unified Versatile Routing

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 downlink ports, DB50 ports, 10GE uplink ports and 2 stack ports.

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How To View Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices. Checking transceiver parameters allows users to monitor real-time

Huawei Switches Buying Guide 2026

Compare Huawei''s 2026 switch models—including S6750-H, CE6881H, and S5735-L—by AI capabilities, energy efficiency, port density, and use case. Learn how to select based on

Configuring Attributes for an Optical Interface

Converted interfaces go Up after the switch restarts and the configurations delivered when the split interface is in Offline state take effect. A 40GE interface cannot be split if it has been

CloudEngine S5736-S Series Switches | Huawei Enterprise

CloudEngine S5736-S series switches are all-optical switches that feature 48 downlink optical ports and four uplink 10 GE ports. Learn more.

CloudEngine S5735-S-V2 Series Hybrid Optical

Based on the next-generation high-performance hardware and Huawei''s Versatile Routing Platform (VRP), the CloudEngine S5735-S-V2 series hybrid optical

Checking the Optical Module Type

When certifying an optical module, Huawei switches comprehensively verify optical module functions to ensure the optical module quality. The functions include the installation and removal, transmit and

Displaying Optical Module Information

What Is the Impact of Using Non-Huawei-Certified Switch Optical Modules? When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical

Huawei CloudEngine S5732-H Series Hybrid Optical-Electrical Switches ...

Huawei CloudEngine S5732-H Series Hybrid Optical-Electrical Switches Datasheet CloudEngine S5732-H series hybrid optical-electrical switches are brand-new 10GE access switche that provides 24-port

How Do I Check the Interface or Port Status?

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Checking Service Interface Indicators to Determine the Interface Status Observe service interface indicators to quickly identify the service interface status. The following uses the S6730-H48X6C as

How To Switch Optical-Electrical Mode On Huawei Router Combo

The Combo interface, also known as the optical-electrical multiplexing interface, consists of two Ethernet ports (one optical and one electrical) on the device panel, and there is only one

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