

Huawei switch optical interface



Overview

Optical Modules for Huawei S Series Switches Are Optical Modules of Huawei Switches Interchangeable with Optical Modules of Other Manufacturers?

No. Huawei.

Key Takeaways

Yes, Huawei switches support optical interfaces through certified optical modules, enabling fiber-optic connectivity for high-speed network transmission.

Optical Interface Support

Huawei switches are designed to support optical uplink and downlink ports, allowing connections via fiber-optic cables for high-speed data transmission. These optical interfaces are available on many models, including the S3700, S5700, and S6700 series, and can support a wide range of port speeds such as GE, 2.5GE, 10GE, 25GE, 40GE, 100GE, and 160GE.

Optical ports can be used for core, aggregation, or access layers in campus networks, providing flexibility for building all-optical networks.

Optical Modules

Huawei switches require the use of Huawei-certified optical modules to ensure reliable transmission and service stability. Non-certified modules may cause installation issues, data bus errors, or even damage to the switch interface. Certified modules are verified for compatibility, signal quality, fault tolerance, and environmental performance.

Examples include the SFP-FE-SX-MM1310 for 100M optical connections.

Configuration and Diagnostics

To manage and monitor optical interfaces, Huawei switches provide commands such as:
display transceiver interface verbose – to view optical module status, wavelength, and power levels.
display transceiver diagnosis interface – to check diagnostic information and digital monitoring metrics. These commands help ensure proper operation and detect any issues with optical modules.

Practical Considerations

When using Huawei switches with optical interfaces: Ensure the fiber type matches the optical module (single-mode vs. multi-mode) to avoid connectivity issues. Avoid using optical modules with a higher rate than the interface supports (e.g., 10G module on a 1G port) to prevent errors. Use the Hardware Center or product documentation to verify supported optical modules for each switch model.

In summary, Huawei switches do have optical interfaces, but they require certified optical modules for proper operation, and the supported speeds and module types vary by switch model. These interfaces enable high-speed, fiber-optic connectivity suitable for modern campus and enterprise networks.

Article Content

Optical Modules for Huawei S Series Switches

Are Optical Modules of Huawei Switches Interchangeable with Optical Modules of Other Manufacturers? No. Huawei switches must use Huawei-certified switch optical modules.

Displaying Optical Module Information

To determine whether optical modules delivered for Huawei switches before January 1, 2016 are certified ones, contact Huawei technical support. If your optical modules are delivered after January

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.

01-11 PLUGGABLE MODULES FOR INTERFACES

A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

Optical Modules for Huawei S Series Switches

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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 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

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

Checking TX / RX optical power for Huawei Switches and Routers

Here is an example on how to query or display optical power of an interface in a Huawei Router. This is tested using NetEngine40E Universal Service Router or NE40E running version 8.x OS.

Huawei CloudEngine S6730-H-V2 Series 10GE Switches Datasheet

Huawei CloudEngine S6730-H-V2 Series 10GE Switches Datasheet Huawei CloudEngine S6730-H-V2 series 10GE switches are next-generation enterprise-class core and aggregation switches that

Pag-troubleshoot sa Huawei MA5608T vs MA5800-X2: Mga Optical Interface ...

Kapag nagpapalano ng pag-upgrade ng network o bagong FTTH/FTTB deployment, napakahalagang maunawaan ang pagkakaiba sa pagitan ng Huawei MA5608T at MA5800-X2. Parehong mahalaga

Ethernet Switch Port Types Explained 2026: RJ45,

A complete engineering guide to Ethernet switch port types: RJ45, SFP, SFP+, SFP28, QSFP+, QSFP28, Combo, Stack, PoE, access/trunk/hybrid

Huawei CloudEngine S5755-S Series Twins Switches Datasheet

These capabilities make Huawei CloudEngine S5755-S-HT series twins switches ideal for mission-critical environments with stringent reliability requirements, such as production and manufacturing,

Huawei CloudEngine S6730-H-V2 Series 25GE Switches Datasheet

CloudEngine S6730-H-V2 series 25GE switches provide open interfaces and user-defined forwarding processes to meet customized service requirements of enterprises. Enterprises can use multi-layer

Cisco Command to Check SFP Module Details

They connect switches, routers, and servers through fiber-optic or copper links, ensuring reliable communication between infrastructure layers. For network engineers, knowing how to view

Huawei OPTICAL TRANSCEIVER Price

The Best Huawei Products Price List Checking Tool ICT-Router, Switch, Optical Transmission & Access Network

LC Fiber Optics: Complete Guide 2026 to Patch Cables,

Explore LC fiber optics in depth: LC connectors, LC patch cables, uniboot designs, attenuators, breakout cables, LC adapters, patch panels, MPO

Typical Troubleshooting Cases of Optical Module

Check whether an optical module is a bogus one. An optical module delivered by Huawei is uniquely identified by an SN. If two or more optical modules have the same SN, bogus optical modules are

Related Video Reference

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