Huawei routers support optical modules



Overview

Optical modules are encapsulated in different modes to provide different structures. Huawei routers support optical modules of the following encapsulation types: SFP, eSFP, SFP+, XFP, and QSFP+.

Key Takeaways

Huawei optical modules can be connected to Huawei routers, but only Huawei-certified modules are supported to ensure reliable transmission and service stability.

Certification Requirement

Huawei routers must use Huawei-certified optical modules. Non-certified modules may cause transmission issues, service instability, and are not supported by Huawei for troubleshooting or warranty purposes. Certified modules are labeled with "HUAWEI" and meet strict verification standards, including plug/unplug functionality, transmit/receive optical power, signal quality, error tolerance, and environmental compliance.

Installation Procedure

Insert the Optical Module: Gently push the module into the router's optical interface until it clicks. If it does not fit, rotate 180 degrees and try again. Fiber Preparation: Remove dust caps from both the module and fiber connectors.

Label fibers temporarily to identify transmit and receive ends. Connect Fibers: Attach one end of the fiber to the optical module and the other to the remote device, ensuring transmit and receive ends match. Labeling: Replace temporary labels with permanent ones after connection.

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Interface Configuration

Some Huawei routers feature Combo interfaces (optical-electrical multiplexing). By default, the optical port may be disabled. To enable it: Enter system view and execute combo enable fiber to switch to optical mode.

Use undo combo enable fiber to revert to electrical mode. Ensure the same configuration is applied on the peer device.

Compatibility Considerations

Match the fiber type (single-mode or multi-mode) with the optical module type; do not mix them. Ensure the module speed matches the interface (e.g., do not use a 10G module on a 1G port),. Check optical power levels and module status using commands like display transceiver interface xgigabitethernet 0/0/2 verbose.

By following these guidelines, Huawei optical modules can be safely and effectively connected to Huawei routers, ensuring stable network performance and compliance with Huawei's operational standards.

Article Content

Types of Optical Modules

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01-10 OPTICAL MODULES

Huawei S series devices support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP, and SFP+. All optical modules are hot swappable.

Huawei News June 2026: Wi-Fi 7 Router Launch & Optical LAN

Read the latest Huawei news from early June 2026. Discover the new Wi-Fi 7 Router X1 Pro launch, iFTTO optical LAN updates, and Xinghe network expansion.

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The Huawei AR series is compatible with a wide range of industry-standard SFP and SFP+ optical modules, but using Huawei-certified transceivers ensures optimal performance and support.

Troubleshooting for Optical Modules on Huawei Switch

Check whether the optical module is Huawei-certified. If it is not certified by Huawei, replace it with a Huawei certified one. Remove and reinstall the optical module. ...

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Huawei Unveils StarryLink Optical Modules That Deliver Ultimate

Barcelona, Spain (ANTARA/PRNewswire)- At the Mobile World Congress 2025 (MWC 2025), Huawei launched the StarryLink optical modules, designed to enhance network experiences

Huawei AR BGP Support FAQ: Expert Answers to Network Integration ...

This FAQ addresses high-intent queries regarding Huawei AR series router support for full BGP tables, hardware specifications, and integration scenarios. As BGP is a fundamental feature of Huawei AR

What Is StarryLink Optical Module? Why Do We Need It?

The StarryLink optical module is a core component developed by Huawei for data center networks. It delivers ultra-long-distance transmission, exceptional reliability, and enhanced security,

Optical Module Troubleshooting

If there is a Huawei logo on the label, the optical module has been certified for Huawei data center switches. If not, send the model of the optical module to technical support personnel.

400G vs 800G Optical Modules: Differences, Use Cases, and

Compare optical modules for data centers and AI clusters. Learn key differences in standards, power, cabling, and use cases.

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Alcatel-Lucent (Nokia) 3HE00564CA 01 10GBASE-LR XFP Optical

The Alcatel-Lucent (Nokia) 3HE00564CA 01 is a genuine original 10GBASE-LR XFP optical transceiver, manufactured by Finisar for Nokia/Alcatel-Lucent. Designed for carrier-grade 10 Gigabit Ethernet

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types,

Cisco Command to Check SFP Module Details

Introduction - Why Checking SFP Status Matters In every enterprise network, Small Form-factor Pluggable (SFP) modules play a critical role. They connect switches, routers, and servers through

400G Optical Modules 2026 Guide: DR4 vs. FR4 vs. LR8 Lab

400G FR4 delivers ~40% better fiber utilization in campus backbones LPO-compatible modules reduce power consumption by ~2.5W per port For 2026 deployments, prioritizing LPO

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