Huawei optical module matching



Overview

View the Transceiver Type field to check whether the local optical module type matches the remote optical module type.

Key Takeaways

Huawei switches require specific optical modules based on port type, speed, and fiber type, with both official and compatible third-party options available.

Key Considerations for Matching Optical Modules

Port Speed and Type: Ensure the optical module matches the switch port speed. For example, do not use a 10G SFP+ module on a 1G interface. Huawei switches support various port speeds including 100M, 1G, 10G, 25G, 40G, and 100G.

Fiber Type Compatibility: Single-mode (SM) and multi-mode (MM) fibers require corresponding optical modules.

Mixing SM and M

M modules or fibers can prevent link establishment. Wavelength and Distance: Optical modules are designed for specific wavelengths and transmission distances. For instance, LR modules typically support 10 km, ER modules 40 km, and ZR modules 80 km.

Switch Series Examples: S5700/S5720 Series: Use SFP or SFP+ modules depending on port speed. Ensure fiber type and module rate match the interface. CE8800 Series: Supports 25G SFP28, 40G QSFP+, and 100G QSFP28 modules.

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Compatible third-party modules from ETU-Link are available for cost-effective deployment. S6700 Series: Compatible with Moduletek SFP-10G-LR and other transceivers, with commands available to check port and transceiver status.

Third-

Party Compatible Modules: Vendors like ETU-Link, Moduletek, and EDGE Optical Solutions provide modules compatible with Huawei switches, including SFP, SFP+, QSFP28, CWDM, DWDM, and bidirectional options. These can reduce costs while maintaining performance and reliability. Verification and Troubleshooting: Use Huawei CLI commands to check port and transceiver status: display interface or display transceiver interface verbose.

Ensure the port is not administratively down and optical power levels are within normal range. Perform loopback tests if connectivity issues arise.

Summary

To match optical modules with Huawei switches effectively: verify port speed, fiber type, wavelength, and distance requirements, and consider using official or certified third-party modules for cost efficiency. Always check module status and compatibility using Huawei CLI commands to ensure proper operation and avoid link failures.

Article Content

Optical Interface Interconnection Is Abnormal on CE Switches ...

View the Transceiver Type field to check whether the local optical module type matches the remote optical module type. For example, if a GE optical module is installed on the remote

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,

Optical Transceiver Manufacturer,Huawei CE8800 Series Switch

Huawei ce8800 series switches are equipped with high-density 400G / 200G / 100GE / 40GE / 25GE / 10G ports, which can be matched with 25G SFP28 optical module, 40G QSFP+

Huawei Compatible Transceivers | EDGE Optical Solutions

We are a supplier of compatible Huawei optical transceiver products that are built to meet reliability and performance requirements. Compatible Huawei transceiver products are widely used among network

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WHAT IS AN OPTICAL MODULE AND ITS FAQS (V200)

If the value of Vendor Name is HUAWEI, the optical module has been certified for Huawei data center switches. If the value is not HUAWEI, the optical module is not certified for Huawei data center

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.

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.

Optical Transceiver Manufacturer,Huawei S6720s Switch And Optical ...

Optical modules are strictly tested and verified to ensure the compatibility and performance of optical modules. Next, we will introduce Huawei S6720S-26Q-LI-24S-A switch and optical module matching

HUAWEI Transceiver

What are the models of Huawei Gigabit optical transceivers? Huawei Gigabit optical transceiver models are: SFP-1.25G-LX10, 0231A562, 0231A564, 0231A563, 0231A085.

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

Displaying Optical Module Information

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

Huawei Optical Modules and Cables

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Optical Modules in Intelligent Computing Scenarios

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Optical Modules in Intelligent Computing Scenarios In the AI era, Huawei provides a full range of GE to 800GE optical modules, featuring three major capabilities: Spanning (ultra-long transmission), Stable

Huawei AI CloudMatrix 384 – China''s Answer to Nvidia GB200 NVL72

Huawei is making waves with its new AI accelerator and rack scale architecture. Meet China''s newest and most powerful Chinese domestic solution, the CloudMatrix 384 built using the

10Gbps SFP+ Optical Module

Describes the chassis, power supply, fans, boards, optical modules, and power distribution box of the NetEngine 8000 M14K, M14, M8K, M8, M4, 8000E M14, M8.

Huawei 40G QSFP Switch Guide: CE6800 & CE12800 Specs

Compare Huawei CloudEngine 40G switches (CE6800, CE12800), QSFP+ module compatibility (SR4/LR4), and deployment guidance for AI-ready Ethernet fabrics.

Optical Module Working Principle | SFP Transceiver Technical Guide ...

Understanding the working principle of optical modules—especially SFP transceivers—is critical for network engineers, data center operators, and telecom professionals tasked with building

SFP vs SFP+ vs QSFP28 vs QSFP-DD: 2026 Optical

SFP vs SFP+ vs QSFP28 vs QSFP-DD: Master optical transceiver selection for 1G to 800G AI networks with our lab-verified guide.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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