

Optical modules corresponding to Huawei switches



Overview

Optical Modules for Huawei S Series Switches To determine whether optical modules delivered for Huawei switches before July 1, 2013 are certified ones, cont.

Key Takeaways

Huawei switches support a wide range of optical modules including SFP, SFP+, XFP, QSFP+, QSFP28, and CFP, compatible with various transmission rates and fiber types.

Types of Optical Modules

Huawei switches are compatible with multiple pluggable optical module types: SFP (Small Form-Factor Pluggable): Supports GE interfaces and LC fiber connectors. eSFP: Enhanced SFP with monitoring capabilities for voltage, temperature, bias current, transmit and receive optical power. SFP+: High-speed SFP supporting 10GE transmission. SFP28: Same form factor as SFP+, supports 25GE.

XF

P: 10GE modules, larger than SFP+, LC connectors. QSFP+: Quad SFP, supports 40GE, uses MPO connectors. QSFP28: Supports 100GE or 40GE, same interface size as QSFP+.

CF

P: Centum form-factor pluggable, used for high-speed data communication, dimensions 144. 75 mm x 82 mm x 13. 6 mm (L x W x H).

All these modules are hot-swappable, allowing replacement without powering down the switch.

Transmission Rates and Compatibility

Huawei optical modules cover a wide range of transmission rates: FE/GE: Fast Ethernet and Gigabit Ethernet 10GE, 25GE, 40GE, 100GE: High-speed data center and backbone applications It is important to match the module rate with the switch port. For example, a 10G module should not be used on a 1G interface, as it may fail to operate. Fiber Type Considerations Single-mode fiber (SMF): Low dispersion, suitable for long-distance transmission.

Multimode fiber (MMF): Larger core, suitable for short-distance transmission. Compatibility: Single-mode and multimode fibers should not be mixed with incompatible modules. Common fiber standards supported include G.

651 (multimode), G. 652 (single-mode), G. 653, and G.

655, with G. 651 and G. 652 being most widely used.

Practical Usage and Monitoring

Port configuration: Use commands like display interface to check link status, transceiver type, and traffic statistics. Troubleshooting: Check optical power, wavelength, and ensure the port is not administratively down. Loopback tests can help verify module functionality.

Stacking and service ports: Some Huawei switches, like S5700 series, allow stacking through service ports, which may involve optical connections.

Procurement and Sourcing

Huawei optical modules and compatible SFP transceivers are available from authorized suppliers, ensuring original, new, and fully compatible modules for routers, switches, servers, and OLTs.

Summary

When selecting optical modules for Huawei switches: Choose the correct module type (SFP, SFP+, XFP, QSFP+, QSFP28, CFP) based on port interface and speed. Match fiber type (single-mode or multimode) with the module. Verify transmission rate compatibility with the switch port.

Monitor module status using switch commands to ensure proper operation. Use authorized suppliers to guarantee compatibility and reliability. Following these guidelines ensures optimal performance and reliability of Huawei switch optical connections.

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 support. If your optical modules are delivered after July 1, 2013, use

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

Understanding Optical Modules

Important Notes About Using Optical Modules Certified for Huawei Switches

Understanding Optical Modules What Is an Optical Module Types of Optical Modules

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 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

Introduction of Optical Modules on Huawei Switches

If an optical module is installed in a running switch, you can run the display transceiver command to view parameters of the optical module, including the center wavelength, ...

WHAT IS AN OPTICAL MODULE AND ITS FAQS (V200)

CloudEngine series switches must use optical modules that are certified for Huawei data center switches. Optical modules that are not certified for Huawei data center switches cannot ensure

Huawei Optical Module Common Models

Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei Technologies Co. and originated in Shenzhen.

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. ...

How To Identify The Switch Corresponding To The Optical Module

Recently, many buyers asked the questions about the module compatible with HUAWEI switches, maybe lots of salesman will encounter many such problems. Today, I carefully read the

Understanding Optical Modules

This document explains optical modules, their types, and applications, providing a comprehensive understanding of their functionality and usage.

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,

Understanding Optical Modules: Types and Troubleshooting Guide

Confirm whether the optical module on the Down port is certified by Huawei Data Center switches. CE series switches must use Huawei Data Center switch certified optical modules; the reliability of

Huawei Recognized as a Leader in the 2025 Gartner ...

Gartner has released its 2025 Magic Quadrant for Data Center Switching, in which Huawei has been recognized as a Leader. Notably, Huawei is positioned furthest in "Completeness

Optical Modules in Intelligent Computing Scenarios

Huawei provides a full series of pluggable optical modules. A wide variety of modules give you flexible plug-and-play options for all types of interfaces.

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.

Cisco Compatible Optical Modules Catalog

EXECUTIVE SUMMARY This document serves as the definitive technical reference for the Cisco Compatible Optical Modules Catalog, encompassing a comprehensive portfolio of Small Form-Factor

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

Q4: Does the AR series support SFP/SFP+ optical module compatibility and redundancy failover? The Huawei AR series is compatible with a wide range of industry-standard SFP and SFP+ optical

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