

How to ensure compatibility of Huawei optical modules



Article Overview

Huawei optical modules must be compatible and certified for use with Huawei devices to ensure reliable performance and service stability.

Compatibility Requirements

Huawei switches and devices are designed to work with Huawei-certified optical modules. Using non-certified modules can lead to transmission reliability issues, service instability, and lack of vendor support for any resulting problems. Even if third-party modules physically fit (due to MSA-standard form factors), they may not pass Huawei's interoperability tests, and the switch software may generate alarms or fail to operate optimally.

Certified vs. Third-Party Modules

- **Certified Huawei Modules:** Fully tested and verified for reliability, performance, and compatibility with Huawei switches and OLT platforms. They include GPON, XG-PON, XGS-PON, and 50G-PON SFP modules, supporting various transmission distances and optical budgets.
- **Third-Party Modules:** Some third-party modules are designed to be compatible with Huawei devices and may offer cost savings. However, compatibility is not guaranteed, and Huawei does not provide support for issues caused by these modules. Compatibility matrices from trusted suppliers can help identify modules that have been tested with Huawei equipment

Article Content

Sep 11, 2025

Optical Modules Fail to Communicate

Procedure Check whether the optical modules have been certified by Huawei.
Devices must use optical modules certified by Huawei.

May 07, 2026

Are the CloudEngine Series Switches Required to Use Optical Modules ...

The CloudEngine series switches must use optical modules that are certified for Huawei Ethernet switches. Optical or copper

Jul 30, 2025

The Ultimate Guide to Huawei SFP/SFP+/QSFP Compatibility:

This guide serves as an authoritative deep dive into the Huawei optical module ecosystem, providing a technical reference grounded

May 25, 2026

Guide to Using Pluggable Modules

Guide to Using Pluggable Modules The system may fail to obtain information about non-Huawei-certified optical modules or obtain

Jan 13, 2026

Huawei Optical Module Test Procedure

Optical Module quality control-Test Procedure In order to ensure that the optical module we deliver do not have compatibility

Aug 27, 2025

Checking the Optical Module Type

When certifying an optical module, Huawei switches comprehensively verify optical module functions to ensure the optical module

Mar 04, 2026

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

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01-10 PLUGGABLE MODULES FOR INTERFACES

To determine whether optical modules delivered for Huawei S switches before July 1, 2013 are certified ones, contact Huawei

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Optical Interface FAQ: Transceiver Compatibility Guidelines for Cisco ...

Whether you are a network engineer performing a hardware refresh or a procurement specialist evaluating third-party optics, this

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Checking the Optical Module

Ensure that the rate, wavelength, and transmission distance of the interconnected optical modules are consistent. Using the same

Feb 20, 2026

Risks of Using Non-Huawei-Certified Switch Optical Modules

The temperature monitoring systems of some non-Huawei-certified switch optical modules do not comply with industry standards and

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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,

Mar 16, 2026

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

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Displaying Optical Module Information

When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module

Dec 25, 2025

Optical Module: Typical Optical Module Troubleshooting Procedure

Optical Module: Typical Optical Module Troubleshooting Procedure Check the model of the faulty optical module. If it is not a Huawei

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Replacing an Optical Module

A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical or copper

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Optical Interface FAQ: Transceiver Compatibility Guidelines for

Covering pre-sales procurement considerations and post-sales troubleshooting, this guide synthesizes official Huawei technical

Nov 01, 2025

FAQs About Optical Modules

Non-Huawei-certified optical modules cannot ensure transmission reliability and may affect service stability. Huawei is not

Jun 06, 2026

Replacing an Optical Module

Replacing an optical module interrupts services. Ensure that the optical module is faulty before replacing it. Only external optical

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Installing Optical Modules

Turn the optical module over and try again. Before connecting an optical fiber to an optical module, complete the measurement of the

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Installing an Optical Module

Install dust plugs on idle optical ports. If an optical module cannot be completely inserted into an optical port, turn the optical module

Aug 14, 2025

Installing Optical Transceivers and Connecting Optical Fibers

Installing Optical Transceivers and Connecting Optical Fibers This section describes how to install optical transceivers on the SFP or

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Troubleshooting for Optical Modules on Huawei Switch

Use optical modules with a longer transmission distance on the two ports. When connecting switches through optical ports, pay

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Replacing an Optical Module

Huawei-certified optical modules are strongly recommended because non-Huawei-certified optical modules cannot ensure

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Replacing an Optical Module

The device must use optical modules recommended on the configurator because non-Huawei-certified optical modules cannot

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Risks of Using Non-Huawei-Certified Switch Optical Modules

Some non-Huawei-certified switch optical modules are not designed in compliance with EMC standards and have low

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Connecting Optical Modules and Optical Fibers

Non-Huawei-certified optical modules cannot ensure transmission reliability and may affect service stability. Huawei is not

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Optical Interface FAQ: Transceiver Compatibility Guidelines for Huawei

Overview & Thematic ScopeThis FAQ addresses one of the most critical operational decisions for network engineers managing

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Optical Interface FAQ: Transceiver Compatibility Guidelines for Cisco ...

Overview & Thematic ScopeWelcome to our technical support FAQ, specifically designed to address the most critical pre-sales and

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Optical Module Solutions for Huawei S5700/S5720 Series Switches

This article summarizes several solutions for using optical modules with switches and common problems encountered

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Compatibility Finder | Compatible Optical Transceivers | OptiModule

Use the OptiModule Compatibility Finder to search Cisco, Juniper, Arista, Dell, Huawei and HPE compatible optical transceivers.

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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

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Installing an Optical Module

Wear an ESD wrist strap or ESD gloves. Ensure that the ESD wrist strap is grounded and in close contact with your wrist. Remove

Nov 25, 2025

Can your optical modules be compatible with Huawei S6720S

Before shipping, the products undergo strict testing to ensure the compatibility and performance of the optical

Aug 02, 2025

Huawei S5735-S48T4X SFP Compatibility Guide | Module Types

The wrong module can cause link failures, performance degradation, or unnecessary cost overruns. This guide explains which SFP

Contact Us

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