

How to enable Huawei optical module



Article Overview

Huawei optical modules must be certified for use with Huawei switches to ensure reliable transmission and service stability.

Certification and Compatibility

Huawei requires that only certified optical or copper modules be used with its switches, as non-certified modules may compromise network reliability and stability . Certification for 10GE or lower modules began on July 1, 2013, and for 40GE/100GE modules on January 1, 2016 . Certified modules are labeled with "HUAWEI," and their details can be verified using commands like display elabel, display version, or display transceiver on Huawei switches . For high-speed or AOC cable modules, the Vendor Name may show the original manufacturer, so confirmation with Huawei support is recommended .

Types of Optical Modules

Huawei supports a variety of optical modules to meet different transmission requirements :

- SFP/eSFP: Small form-factor pluggable modules; eSFP supports monitoring of voltage, temperature, and optical power.
- SFP+: Higher-rate SFP modules.
- XFP: 10G modules with LC connectors.
- SFP28: Supports 25GE transmission.
- QSFP+ / QSFP28: Quad small form-factor pluggable modules for 40GE or 100GE....

Article Content

Oct 08, 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 Guidelines for Optical Modules

Remove and reinstall the optical module. If the fault persists, replace the optical module with a normal one of the

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Installing Optical Modules

The device must use optical or copper modules recommended on the configurator because non-Huawei-certified optical or copper

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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,

Aug 08, 2025

Replacing an Optical Module

Replacing an optical module interrupts service transmission on the corresponding interface. Therefore, replace an optical module

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Installing an Optical Module

Gently push the optical module into the optical port until you hear a click. When inserting an optical module to a port, hold the optical

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Replacing an Optical Module

Follow these guidelines when replacing an optical module: Wear an ESD wrist strap or gloves when replacing the cables. Ensure

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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

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Optical Module Troubleshooting

The optical module installed on the optical interface is not certified for Huawei data center switches. The optical module type does

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How to View Optical Module Parameters

Using a Command If an optical module is installed in a running device, you can run the display transceiver command

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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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Optical Module Solutions for Huawei S5700/S5720 Series Switches

When using switches, we may encounter many confusions, such as what types of optical modules are needed for

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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

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Optical Module: An Optical Module Does Not Send Light Signals

Procedure Use an optical power meter to test whether the transmit power of the optical module is normal. If not,

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How To Switch Optical/Electrical Mode On Huawei Router Combo Ports

Enter the interface view and run the following commands: • Switch to optical mode: combo enable fiber. • Restore

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Introduction of Optical Modules on Huawei Switches

Introduction of Optical Modules on Huawei Switches On an optical network, a sender needs to convert electrical signals into optical

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Optical Module Installation and Replacement

Do not touch the edge connector of an optical module during the installation. Install an optical module on a port before connecting

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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

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Installing an Optical Module

Installing an Optical Module Context This section describes how to install an optical module. The method used to install a copper

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Displaying Optical Module Information

If an optical module on an interface is faulty, you can run the display commands to view information about the optical module.

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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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How To View Optical Transceiver Information On Huawei Switches

Optical modules are commonly used in switches, network cards, routers and other communications equipment, in the

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Optical Access

Based on PON technology, passive all-optical network access solutions enable access by any media, tailored to enterprises, ISPs,

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Optical Module Installation and Replacement

Take out the new optical module from the package. Ensure that the optical module is correctly oriented and gently push it into the

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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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Replacing an Optical Module

Replacing an Optical Module Context Never look directly into an optical module or the ends of optical fibers. Optical modules and

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Installing an Optical Module

Install an optical module on a port before connecting optical fibers to the transceiver module. Install dust plugs on idle optical ports. If

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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

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Configuring Attributes for an Optical Interface

Some functions can be configured on an optical interface only after the interface connects to a transmission medium

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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

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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

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Optical Modules in General-Purpose Computing Scenarios

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models

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Optical Interface FAQ: Transceiver Compatibility Guidelines for

Q7: What is the optical module interoperability standard for different Huawei products? Broad interoperability between Huawei

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Fundamentals of an Optical Module

Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a photoelectric converter

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How To Turn Off Alarms For Third-Party Modules On Huawei Switches

When a third-party optical module is installed on a Huawei switch, the module can link up normally, but alarm

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Enabling or Disabling the Optical Module Laser

Before enabling or disabling the optical module laser, complete the following tasks: Power on the router and ensure that the router

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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

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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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Installing Optical Module Tutorial For HUAWEI Switch

Module installation is an important factor affecting the service life of switches and modules. In the installation process, be sure to

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Checking the Optical Module Type

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

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Optical Module Troubleshooting

Interfaces that use optical modules that are not certified for Huawei data center switches may be unable to go Up. If

Contact Us

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