

How to connect a Huawei optical module in single-mode



Article Overview

To use a Huawei single-mode optical module, ensure compatibility with the device, insert it into the correct port, configure the interface if needed, and verify operation using Huawei display commands.

Step 1: Verify Compatibility

Before installation, confirm that the optical module matches the interface type and speed of your Huawei device. Single-mode SFPs operate over OS2 fiber with a $\sim 9\text{ }\mu\text{m}$ core and are suitable for long-distance connections, typically above 100 meters. Do not mix single-mode and multimode fibers, as this can cause link failure or high bit error rates. Also, ensure the module is Huawei-certified to avoid installation or data bus issues.

Step 2: Insert the Module

- Power off the interface if possible.
- Insert the single-mode SFP into the designated optical port or combo port.
- For combo ports (optical-electrical multiplexing ports), switch the port to optical mode using the command:

`CodeCopy`system-viewinterface combo enable fiberreturn This enables the optical SFP; otherwise, the port defaults to electrical mode.

Step 3: Connect the Fiber

- Use OS2 single-mode fiber with LC connectors.

Article Content

Optical Module Installation and Replacement

Context This section describes how to install an optical module. The method used to install a copper transceiver module is the same,

Installing an Optical Module

This section describes how to install an optical module. The method used to install a copper transceiver module is the same, except

Installing Optical Transceivers and Connecting Optical Fibers

The optical modules at both ends are the same, including the optical fiber type (single-mode or multi-mode), optical fiber connector

Configuring Unidirectional Single-Fiber Communication

40GE optical interfaces support unidirectional single-fiber communication only when no optical module is installed or 40GE optical

10GE SFP+ Optical Modules

Fan Modules Installing a Power Surge Protector Pluggable Modules for Ports

Understanding Optical Modules Understanding Copper

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

Replacing an Optical Module

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

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

Connecting Optical Modules and Optical Fibers

Huawei devices must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission

HUAWEI NIP6300, NIP6600 Series V500 Hardware Guide (pdf)

To ensure the normal transmission of optical signals, do not use single-mode optical fibers to connect multi-mode optical modules or

Optical Modules in General-Purpose Computing Scenarios

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

FAQs About Optical Modules

A multi-mode optical module cannot use a single-mode optical fiber. This is because a single-mode optical fiber is thin and may

What Is an Optical Module and Its FAQs (V200)

Therefore, optical modules are also classified into single-mode and multimode modules to support different optical fibers. Single

OPTICAL MODULES FOR HUAWEI S SERIES SWITCHES

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

Installing an Optical Module

Installing an Optical Module Context Before the installation, take ESD protection measures, for example, wear an ESD wrist strap or

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

Checking Whether the Optical Fiber and Optical Module Match

Procedure Check the optical module type. Generally, an optical module has a label attached, identifying the rate, center wavelength,

How Do I Select Optical Modules and Fibers?

An optical module works in full-duplex mode with a pair of optical fibers, one for transmission and one for receiving, as shown in the

Typical Troubleshooting Cases of Optical Module

Possible causes include: The connector attenuation of the optical fiber exceeds the attenuation threshold, or the optical fiber is bent

Optical Fiber

When using optical modules and optical fibers, pay attention to the following to ensure proper communication between devices: Use

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

A Combo port, also known as an optical-electrical multiplexing port, consists of one optical port and one electrical port

Installing Optical Transceivers and Connecting Optical Fibers ...

The USG supports both 1 Gbit/s optical modules. The optical modules at both ends are the same, including the optical fiber type

Installing Optical Modules and Connecting Optical Fibers

Select optical fibers of appropriate modes, quantity, and lengths according to the optical module types, number of ports to be

Optical fiber connector

Optical fiber connectors are categorized into single-mode and multimode types based on their distinct characteristics. Industry

Troubleshooting for Optical Modules on Huawei Switch

Some single-mode optical modules need optical attenuators, but some do not need. This depends on the transmit/receive power of

Types of Optical Modules

Single-mode fibers support a wide band and large transmission capacity, and are used for long-distance transmission. Multimode

Contact Us

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