

Two fiber optic modules in Huawei switch



Overview

A fiber jumper consists of one or more optical fibers of a certain length and the optical connectors at both ends.

Key Takeaways

Two fiber optic modules can be installed in a Huawei switch if they are compatible with the switch, use the correct fiber type, and are properly configured. Compatibility and Certification

Huawei switches require certified optical modules to ensure reliable transmission and service stability. Non-certified modules may cause data bus suspension, interface damage, or incorrect alarms, so always verify that the modules are Huawei-certified by checking the label, vendor name, or using the display transceiver command . Modules must match the interface speed; for example, a 10G module should not be used on a 1G port .

Fiber Type and Connection

Each optical module must be connected to the appropriate fiber type:

- Single-mode modules require single-mode fiber jumpers.
- Multimode modules require multimode fiber jumpers . Ensure that the optical connector type matches the module interface (e.g., LC, MPO) and that the fiber length suits the onsite cabling distance . Active optical cables (AOCs) can also be used for short-distance connections, replacing separate modules and fibers.

Configuration and Verification

After installing two modules:

- Check the interface status using:

display interface The link must show UP for normal operation .

- Verify optical power and wavelength using:

display transceiver interface verbose Ensure received and transmitted optical power are within normal ranges .

- Confirm the port is not administratively down:

display interface If it shows Administratively DOWN, enable the port.

Troubleshooting

- Perform a loopback test by connecting the fiber jumper to the same module to check for abnormalities .

- Avoid mixing single-mode and multimode fibers or modules.

- Ensure the modules' data rates match the interface to prevent connectivity issues.

Best Practices

- Install modules in adjacent ports only if the module size allows, as some non-standard modules may block neighboring interfaces .

- Use proper handling to avoid damaging connectors or fibers.

- Regularly monitor module status and traffic statistics to detect early signs of link degradation . By following these guidelines, two fiber optic modules can operate reliably on a Huawei switch, providing stable high-speed connections for network traffic.

Article Content

Optical Fiber

A fiber jumper consists of one or more optical fibers of a certain length and the optical connectors at both ends. A fiber jumper

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

Optical Module Solutions for Huawei S5700/S5720 Series Switches

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

Optical Modules in General-Purpose Computing Scenarios

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Currently, Huawei all-optical Ethernet switches come in two series: S5700 and S6700. For details about the models,

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What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals,

Data Center Switches

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What Is an All-Optical Ethernet Switch?

All-optical Ethernet switches are a type of switch that provides optical uplink and downlink ports, making them an ideal

Types of Optical Modules

Wavelength division multiplexing modules differ from other optical modules in center wavelengths. A common optical module has a

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Connecting Optical Modules and Optical Fibers

The methods for connecting optical modules and optical fibers to different routers are the same. The following uses an AR2220-S

Types of Optical Modules

Huawei S series devices support optical modules of the following encapsulation types: CFP, QSFP+, QSFP28, XFP, SFP, eSFP,

Understanding Optical Modules

This document provides an overall description of the CE12800 series switches hardware, helping you obtain detailed information

FAQs About Optical Modules

For details about the optical modules supported by optical ports on switches, see "Appearance and Structure" of a specific switch

Why Cannot Connected Optical Ports Go Up After Single-Fiber ...

The single-fiber bidirectional optical (BIDI) modules must be used in pairs; otherwise, the two ports cannot be connected. For

Installing Optical Transceivers and Connecting Optical Fibers

The USG supports both 1 Gbit/s, 10 Gbit/s, and 40 Gbit/s optical modules. The optical modules at both ends are the same, including

Installing Optical Modules and Connecting Optical Fibers

To connect optical fibers to an optical module, align the fiber connector with the bores on the optical module and insert the fiber

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