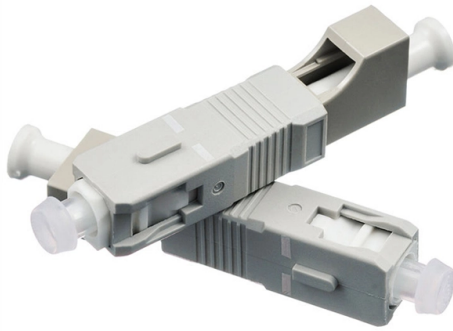


How should Huawei optical module interfaces be configured



AI Overview

Huawei optical module interfaces should be configured by first ensuring proper physical installation, pre-configuring the transmission medium type if needed, and then setting interface attributes and PON parameters using device commands.

Physical Installation and Pre-Configuration

Before configuring an optical interface, ensure the correct optical module (SFP, GPON, XG-PON, XGS-PON, or 50G-PON) is installed in the device slot . Huawei devices allow pre-configuration of the transmission medium type on an interface before the module is physically installed. This ensures that once the correct module is inserted, the interface can automatically go up and the subsequent configurations take effect . Always verify that the installed module matches the pre-configured type to avoid damage or misidentification.

Ethernet Optical Interface Configuration

For Ethernet optical interfaces, you can configure attributes such as speed, duplex mode, and VLANs after the module is installed . Use commands like `display interface` to check the link status, port rate, and transceiver type. For detailed diagnostics, the `display transceiver interface verbose` command provides module identity, wavelength, transmission distance, and DDM (Digital Diagnostic Monitoring) data .

PON Interface Configuration...

Article Content

Aug 19, 2025

Displaying Optical Module Information

Displaying Optical Module Information Context When the optical module on an interface is faulty, you can run the display commands

Jan 27, 2026

Connecting Optical Modules and Optical Fibers

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

Oct 21, 2025

Can a GE Optical Interface Be Manually Configured as a 100M Interface ...

Why Two GE Interfaces with Auto-Negotiation Enabled Cannot Work at 1000 Mbit/s?
Why Cannot Connected Optical Ports Go Up

Aug 22, 2025

Configuring Attributes for an Optical Interface

Both the local and remote interfaces do not need to have optical modules installed. The 40GE interface can be connected to four

May 05, 2026

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

Dec 21, 2025

Troubleshooting MA5608T: Optical Interfaces, Stacking Errors & L3

Overview Welcome to our comprehensive technical FAQ for network architects and telecom engineers working with the Huawei

Sep 03, 2025

Understanding Optical Modules

On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the

Aug 21, 2025

Installing Optical Transceivers and Connecting Optical Fibers ...

If different optical modules are used at the two ends, the communication may fail. Huawei optical modules are recommended. The

Sep 08, 2025

Configuring Attributes for Ethernet Optical Interfaces

To ensure that the interface works properly, you are advised to use Huawei-certified optical modules. A 40GE or 100GE high-speed

Jun 15, 2026

Configuring Common Optical/Electrical Interface Attributes

For the interface speed supported by Ethernet interfaces, see Attributes Supported by Ethernet Interfaces of

Oct 15, 2025

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

Sep 09, 2025

Optical Module Solutions for Huawei S5700/S5720 Series Switches

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

Jul 20, 2026

Displaying Optical Module Information

Run the display transceiver diagnosis interface [interface-type interface-number] command to view diagnostic information about a

May 04, 2026

Managing Huawei OLT: Initial Setup, Console Connection & Firmware ...

To check the Tx/Rx optical power of a specific port, use the command display optic-info [frame/slot/port] or display ont optical-info

May 06, 2026

6.3.9 Installing Cables and Optical Modules. Huawei E9000

1. Determine the type and installation position of the optical module based on site requirements. 2. Horizontally insert the optical

Nov 28, 2025

Huawei GPON configuration (commands) | Splynx Documentation

Learn how to configure Huawei GPON, set user and default routes, check status with commands, and remove ONT from configured

Aug 12, 2025

Replacing an Optical Module

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

Jun 14, 2026

Checking the Optical Module Type

The selected optical modules must be supported by the optical interfaces. Check whether the optical module used on the switch is

Oct 15, 2025

Understanding Pluggable Optical Modules

Optical modules are available in various types to meet diversified requirements. Classified by transmission rates Currently, the

Apr 26, 2026

Configuring Attributes for Ethernet Optical Interfaces

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

Nov 13, 2025

01-18 PON INTERFACE CONFIGURATION

To enable the router to communicate with an upstream optical line terminal (OLT), you must correctly configure attributes of the

Jun 10, 2026

Optical Interface Interconnection Is Abnormal on CE Switches ...

After an SFP-GE copper or optical module is installed on a GE or 10GE optical interface, or a high-speed cable is

Dec 29, 2025

What Precautions Should Be Taken When Optical Interfaces Are

When optical interfaces are connected, the interfaces cannot go Up if the installed optical modules or fibers are abnormal. When

Jun 02, 2026

Displaying Optical Module Information

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

Oct 02, 2025

How To Check If Interconnected Optical Ports Cannot Go Up?

Some non-certified optical modules have defects in data bus designs. Using such an optical module on a device causes abnormality

Apr 07, 2026

Displaying Optical Module Information

Displaying Optical Module Information You can use the display commands to view information about the optical

Jun 12, 2026

Checking Whether the Optical Fiber and Optical Module Match

1550 nm: single-mode optical modules. They are often used for long-distance transmission. GE and 10GE optical modules have the

Jan 01, 2026

How To View Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices.

Contact Us

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