

Checking Optical Port Attenuation on Huawei Switches



Article Overview

You can check optical attenuation on Huawei switch ports by using the display transceiver and display transceiver diagnosis commands to view TX/RX power and digital diagnostic monitoring information.

Viewing Optical Module Information

To check optical attenuation, you first need to access the optical module details:

- All ports: Use display transceiver to list all optical modules and their basic information, including type, wavelength, and vendor details .
- Specific port: Use display transceiver interface to view information for a particular port .
- Detailed diagnostics: Add the verbose parameter to see TX (transmit) and RX (receive) optical power, voltage, bias current, and temperature . Example command:

```
display transceiver interface GigabitEthernet1/0/1 verbose
```

This will show the digital diagnostic monitoring (DDM) data, which includes the current optical power levels. Optical attenuation can be inferred by comparing the TX power of the sending port and the RX power of the receiving port.

Using Diagnostic Commands

Huawei switches also provide a dedicated diagnostic command:...

Article Content

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Checking 100GE Transmit (TX) and Receive (RX) Optical Power on Huawei ...

Checking 100GE Transmit (TX) and Receive (RX) Optical Power on Huawei Routers For checking transmission links

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Analyzing the Optical Power

The optical power attenuates after being transmitted through the optical components or optical fibers. Normally, the actual

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Huawei S Series Campus Switches Troubleshooting Guide (V100 and

Why Cannot Connected Optical Ports Go Up After Single-Fiber Bidirectional Optical Modules Are Used? How Do I Ensure that the

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How to Check SFP Power in Huawei Switch? Is Your Network

For anyone managing high-speed networks, knowing how to check SFP power in a Huawei switch isn't just a technical skill—it's

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Huawei Switch Optical Attenuation Information

Setting Optical Power Alarm Thresholds Huawei-certified switch optical modules are recommended. If non-Huawei-certified switch

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OLT's Upper-Layer Network Is Faulty

Check fiber quality on the upper-layer network. Ping the network IP from the OLT. If packets are lost, perform the following

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Checking the optical attenuation of Huawei switches

Run the display transceiver [interface interface-type interface-number | slot slot-id], to view the information on the optical module

Dec 12, 2025

Checking TX / RX optical power for Huawei Switches and Routers

Here is an example on how to query or display optical power of an interface in a Huawei Router. This is tested using NetEngine40E

Aug 07, 2025

How Do I Check the Interface or Port Status?

Checking Service Interface Indicators to Determine the Interface Status Observe service interface indicators to quickly identify the

Jun 20, 2026

How Do I Check the Transmit and Receive Optical Power of an Optical ...

This page provides a guide on checking the transmit and receive optical power of an optical module for Huawei devices.

Jan 06, 2026

Using the OTDR to Locate Abnormal Attenuation Points on the Optical

Concept The OTDR is used to test parameters such as the optical fiber curve, return loss, fusion splicing loss, reflection ratio, and

Jun 02, 2026

Checking the Physical Link Status

Check the physical link connection. View the indicator status on an interface. If the indicator is off, the interface is not connected.

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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

Jul 28, 2025

Huawei Optical Switch View Optical Module Commands

Taking the Huawei 5700 series switches as an example, the commands to view optical module information are as

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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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Displaying Optical Module Information

To determine whether optical modules delivered for Huawei switches before January 1, 2016 are certified ones, contact Huawei

Apr 01, 2026

FAQ-How Do I View the Transmit and Receive Optical Power of an Optical ...

Modular Switch V200R002& V200R003 The Current Rx Power (dBm) field in the command output indicates the

Jan 11, 2026

Troubleshooting S Series Switch Port and Interface Problems

Troubleshooting S Series Switch Port and Interface Problems This document describes how to check the switch interface or port

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How To Check If Interconnected Optical Ports Cannot Go Up?

If the problem is not caused by the optical modules, fibers, or intermediate device, connect the switch to another interface or replace

Jan 08, 2026

Huawei MiniFTTO Optical Power Calculator

Why do I need to calculate the optical power? A PON network uses an optical fiber for upstream and downstream bidirectional

May 22, 2026

Troubleshooting S Series Switch Port and Interface Problems

If the receive power of an optical module is too low or too high, use an optical power meter to test the optical power attenuation of

Oct 12, 2025

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

Nov 02, 2025

How To View Optical Transceiver Information On Huawei Switches

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

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Huawei Switch Optical Attenuation Information

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

Sep 05, 2025

Analyze Optical Power

In normal cases, the actual optical attenuation is close to the theoretical value. If the actual attenuation is much greater than the

Jul 14, 2026

Checking that the Optical Power Is Within the Normal Range

If the value of Rx Optical Power is less than the receiving sensitivity, adjust the link or replace the optical module or optical fiber at

Jun 09, 2026

Checking the Optical Module

Check whether the transmission distance and fiber type of the optical module meet the requirements. Use an optical power meter to

Contact Us

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