

Checking the optical attenuation standard of Huawei switches



Article Overview

Use the display transceiver and display transceiver diagnosis commands to view optical attenuation and module diagnostics on Huawei switches.

Viewing Optical Module Information

To check optical attenuation and related parameters, Huawei switches provide commands that display both general and diagnostic information of the optical module:

- **Basic Module Information** Run the command:
`display transceiver [ interface interface-type interface-number | slot slot-id ] [ verbose ]` This command shows the optical module type, vendor, wavelength, transfer distance, and current transmit (TX) and receive (RX) power levels. Using the verbose option provides detailed information including optical attenuation, voltage, current, and temperature readings .
- **Diagnostic Monitoring (DDM) Information** For real-time diagnostics, execute:
`display transceiver diagnosis interface [ interface-type interface-number ]` This displays Digital Diagnostic Monitoring (DDM) data, including:
 - TX Power (dBm) – current transmitted optical power
 - RX Power (dBm) – current received optical power
 - High/Low Thresholds – alarm limits for optical power
 - Bias Current (mA) – laser drive current
 - Voltage (V) and Temperature (°C) – operational status of the moduleBy comparing the TX and RX power values with the expected link budget, you can determine the...

Article Content

Nov 24, 2025

How to Identify Huawei-Certified Switch Optical Modules

How to Identify Huawei-Certified Switch Optical Modules A switch must use optical or copper modules that have been

Nov 18, 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

Jan 08, 2026

Checking the optical attenuation of Huawei switches

Troubleshooting for Optical Modules on Huawei Switch If the transmit power remains low, replace the optical module or install it in

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Checking the optical attenuation of Huawei switches

Checking the optical attenuation of Huawei switches Run the display transceiver [interface interface-type interface-number | slot slot

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Displaying Optical Module Information

Huawei-certified optical modules have been tested to the highest standards to ensure their quality. Tests include the installation and

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Checking Optical Attenuation on Huawei CE Switches

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

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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

Jun 07, 2026

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 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

Dec 23, 2025

Optical Interface Interconnection Is Abnormal on CE Switches ...

Procedure Check whether the optical module models at the two ends match. Run the display interface interface-type

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Using the OTDR to Locate Abnormal Attenuation Points on the Optical

The optical time domain reflectometer (OTDR) is usually used for locating abnormal attenuation points on the optical line.

May 21, 2026

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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Troubleshooting Guidelines for Network Packet Loss

Troubleshooting Guidelines for Network Packet Loss The preceding sections describe the causes of packet loss on the network

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Checking the Receive and Transmit Optical Power

Run the display interface interface-type interface-number transceiver verbose command to check whether the receive optical power

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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

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FAQs About Optical Modules

Description: Huawei switches must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure

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Analyze Optical Power

In optical power analysis, the actual optical attenuation is compared with the theoretical value to determine the quality of the optical

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How To Check If Interconnected Optical Ports Cannot Go Up?

1. Checking the Optical Module Type Log in to the switch through Telnet or console port to check the switch model. Run the display

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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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Calculate the Maximum Attenuation for Optical Fiber Links

Introduction This document describes how to calculate the maximum attenuation for an optical fiber. You can apply

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Hardware Description

The temperature monitoring systems of some non-Huawei-certified switch optical modules do not comply with industry standards and

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How Do I Query the Optical Power of an Interface?

How Do I Query the Optical Power of an Interface? You can run the display interface [interface-type interface-number

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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

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Guidelines Corning Recommended Fiber Optic Test

Tier 1 testing is the minimum level of testing that is required. This level of testing consists of link attenuation testing, link length, and a

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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 01, 2026

Checking the Optical Module Type

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

Oct 19, 2025

Optical Loss & Testing Overview | Kingfisher International

Application note: Practical overview of optical loss testing theory and practice for fiber optic communication systems.

May 30, 2026

OPTICAL MODULES FOR HUAWEI S SERIES SWITCHES

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

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