

Huawei Switch Optical Port Power



Article Overview

Huawei switch optical port power can be monitored using the display transceiver commands to check TX (transmit) and RX (receive) power, ensuring it is within normal ranges for proper optical link operation.

Viewing Optical Power

To check the optical power of a specific port on Huawei switches, use the following commands:

- Display all optical modules: `display transceiver` This shows basic information for all optical ports, including module type, wavelength, and DDM support .
- Display a specific port with detailed diagnostics: `display transceiver interface interface-type interface-number verbose` This command provides TX power, RX power, voltage, bias current, and temperature for the optical module .
- Check for abnormal optical power: `display transceiver diagnosis interface interface-type interface-number` This command helps identify high or low transmit/receive power alarms and other module faults .

Typical TX/RX Power Ranges

- Gigabit SFP modules: TX power typically ranges from -9 dBm to -3 dBm, and RX power should be within the module's specified sensitivity range .
- 10G SFP+ modules: TX power usually ranges from -5 dBm to 0 dBm, with RX power depending on fiber type and distance .
- Power outside these ranges may trigger alarms such as `hwOpticalInvalid` or `hwOp...`

Article Content

Aug 22, 2025

Troubleshooting for Optical Modules on Huawei Switch

When connecting switches through optical ports, pay attention to the following points: The optical modules used on both ends must

Jul 05, 2026

Configuring PoE Power-on and Power-off Management

To shorten the time during which PDs are powered off, configure fast power-on for PoE interfaces on the PoE switch. After the PoE

Dec 08, 2025

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

Sep 02, 2025

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

If your network feels sluggish or devices mysteriously disconnect, the culprit might be smaller than you think—buried inside your

Mar 20, 2026

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

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

Apr 03, 2026

how to display power of optical module

Let's take Huawei's S3328TP-SI switch as an example. This switch has 2 combo ports, which can be changed either

May 09, 2026

Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper

Jan 29, 2026

CloudEngine S5736-S Series Switches | Huawei Enterprise

CloudEngine S5736-S series switches are all-optical switches that feature 48 downlink optical ports and four uplink 10 GE ports.

Jan 24, 2026

CloudEngine S5732-H Series Hybrid Optical-Electrical Switches

Long-distance PoE++ power supply When the CloudEngine S5732-H is used together with hybrid cables, the switch provides 60 W

May 14, 2026

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

The Combo electrical port and its corresponding optical port are logically multiplexed. Users can choose either port

May 09, 2026

Setting Optical Power Alarm Thresholds

Huawei-certified switch optical modules are recommended. If non-Huawei-certified switch optical modules are used, incorrect optical

May 05, 2026

Displaying Optical Module Information

When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module

Nov 19, 2025

Troubleshooting for Optical Modules on Huawei Switch

If the transmit power remains low, replace the optical module or install it in another optical port to check

Sep 08, 2025

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

Oct 21, 2025

Displaying Optical Module Information

When the current optical module power is between the upper and lower thresholds, the optical power is normal. When the current

Aug 18, 2025

Huawei S Series Campus Switches Troubleshooting Guide (V100 and

A switch with built-in power modules provides fixed PoE power supply capability and fixed number of full PoE ports. For a fixed

Mar 25, 2026

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

May 27, 2026

CloudEngine S5731-H Series Switches | Huawei Enterprise

CloudEngine S5731-H series hybrid optical-electrical switches provide GE/10 GE electrical downlink ports and four 10 GE uplink

May 21, 2026

What Is an Optical Module and Its FAQs (V200)

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

Mar 30, 2026

ES5D21G16S00 (16-Port GE SFP Front Optical Interface Card)

Card Overview The ES5D21G16S00 provides sixteen GE SFP optical ports for data access and line-rate switching. The

Sep 21, 2025

How To View Optical Transceiver Information On Huawei Switches

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

Oct 06, 2025

Optical Fiber

AOC An active optical cable (AOC) is a fixed-length optical fiber with optical modules at both ends. It can be directly connected to an

Jan 03, 2026

Optical Module Solutions for Huawei S5700/S5720 Series Switches

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

Mar 27, 2026

How to Know Optical Power SFP-Detail Link-Details & Port ...

Hello friends,Welcome to Technical HakimIn this tutorial, we will learn how to verify port

Nov 06, 2025

Port: Optical Ports on the AC Cannot Go Up

Use an optical fiber to perform a loopback test on the Huawei device. If the link goes Up, the Huawei device is working properly, and

Dec 17, 2025

Huawei CloudEngine S5735-S-V2 Series Hybrid Optical-Electrical

Huawei CloudEngine S5735-S-V2 series hybrid optical-electrical switches are standard gigabit Ethernet switches that provide all GE

Dec 06, 2025

Optical Module Troubleshooting

Possible Causes The optical module installed on the optical interface is not certified for Huawei data center switches.

Contact Us

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