

# **Huawei checks the light and signal reception of optical modules**





## Overview

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Log in to the switch through Telnet or console port to check the switch model. This document describes the principles and configurations of the Device Management features, and provides configuration examples of these features. During use, reading optical module information helps understand its real-time operating status, enabling faster troubleshooting of link abnormalities. Run the display transceiver [interface interface-type interface-number | slot slot-id] , to view the information on. How to Configure Optical Ports on Huawei S5720-32P-EI-AC Switch?

Problem: All optical ports cannot be connected, and the indicator lights are not on.



## Huawei checks the light and signal reception of optical modules

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### How to View Optical Module Parameters

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

### Huawei enterprise switches

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After the optical module does not satisfy the non-MSA authentication protocol structure dimensions, when inserted into the optical interface of such a light module, since the size of the problem of the



# A Comprehensive Overview of Optical Transceivers

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Optical transceivers convert electrical signals to light for fast data transfer in telecom, data centers, and 5G networks. Learn their types and uses.

## Optical Module Troubleshooting

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If there is a Huawei logo on the label, the optical module has been certified for Huawei data center switches. If not, send the model of the optical module to technical support personnel.

## How To Read Optical Module Information On Huawei Switches

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Optical modules are widely used in switches, network interface cards (NICs), routers, and other communication devices. During use, reading optical module information helps understand its real



## What Is an Optical Module and Its FAQs (V300)

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You can identify a Huawei-certified optical module by checking the label attached on the optical module. If the label has a Huawei logo, the optical module has been certified for Huawei data

## Troubleshooting Guidelines for Optical Modules

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Remove and reinstall the optical module. If the fault persists, replace the optical module with a normal one of the same type to check whether the optical module is faulty. If the fault persists, collect log

## Optical Module: Typical Optical Module



## Troubleshooting Procedure

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Check the model of the faulty optical module. If it is not a Huawei-certified optical module, replace it with a Huawei-certified optical module. If the optical module is installed on a GE port, run the display

## How to Identify Huawei-Certified Optical Modules

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Non-Huawei-certified optical modules cannot ensure transmission reliability and may affect service stability. Huawei is not responsible for any problem caused by the use of non-Huawei

## How to Measure the Performance Indicators of Optical

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Optical modules, including the advanced 25G SFP28 transceiver, play a pivotal role in modern communication systems, facilitating the transmission of



## How To Read Optical Module Information On Huawei Switches

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The following uses the Moduletek SFP-10G-LR module connected to a Huawei S6700 switch as an example to introduce how to read information of the connected optical module on a Huawei switch.

## Huawei Unveils StarryLink Optical Modules That Deliver

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BARCELONA, Spain, March 6, 2025 /PRNewswire/ -- At the Mobile World Congress 2025 (MWC 2025), Huawei launched the StarryLink optical modules, designed to



## Risks of Using Non-Huawei-Certified Switch Optical Modules

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Some non-Huawei-certified switch optical modules are not designed in compliance with EMC standards and have low anti-interference capability. Additionally, they bring electromagnetic

## Checking the Optical Module Type

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When certifying an optical module, Huawei switches comprehensively verify optical module functions to ensure the optical module quality. The functions include the installation and removal, transmit and

## Troubleshooting for Optical Modules on Huawei Switch

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When this optical module uses OM3 multimode optical fibers, its transmission distance is



0.3 km. The optical modules used on both ends must have the same

## Introduction of Optical Modules on Huawei Switches

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

## Typical Troubleshooting Cases of Optical Module

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Check whether the optical module is a Huawei-certified one. If not, replace it with a Huawei-certified optical module. If the optical module is installed on a GE port, run the display interface



## **Optical Module Solutions for Huawei S5700/S5720 Series Switches**

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This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.

### **Optical Module: Typical Optical Module Troubleshooting Procedure**

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Use an optical power meter to test the receive power of the port and check whether the optical fiber is disconnected. Use one optical fiber to form a loop on the port to check whether the port goes Up. If

### **FAQs About Optical Modules**

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For details about the optical modules supported by optical ports on switches, see "Appearance and Structure" of a specific switch model in the Hardware Description. The



following figure shows the

## Checking Whether Optical Module Types Match

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For example, the transmission distance supported by OM1 optical fibers in the preceding command output is 150 m. If the actual transmission distance exceeds 150 m, use an optical fiber with a longer

## Displaying Optical Module Information

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To determine whether optical modules delivered for Huawei switches before January 1, 2016 are certified ones, contact Huawei technical support. If your optical modules are delivered after January



## Displaying Optical Module Information

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What Is the Impact of Using Non-Huawei-Certified Optical Modules? Huawei-certified optical modules have been tested to the highest standards to ensure their quality. Tests include the installation and

## Checking the Receive and Transmit Optical Power

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If they are damaged, replace them. If the receive optical power is high (Current RX Power has a larger value than Default RX Power High Threshold), the transmit signal strength on the remote optical

## How to Test the Quality of Optical Transceiver Modules, GLsunMall

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At the same time, in the extinction ratio detection can see the relative amplitude of the light signal "1" level and the "0" level, the larger the extinction ratio, the stronger the relative amplitude, the greater



## Checking the Optical Module Type

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

## Huawei Technical Support

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Learn how to display optical module information on Huawei devices using specific commands and understand the diagnostic details of optical modules.

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

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Run the display interface transceiver verbose command to check the transmit and receive optical power of an optical module. In the command output, Current RX Power (dBm) and Current TX Power (dBm)

## Understanding Pluggable Optical Modules

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Therefore, when using such optical modules, select optical fibers of an appropriate length to ensure that the actual receive power is smaller than the overload power. If the optical fibers connected to a long

### Contact Us

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For datasheets, pricing, or custom optical networking solutions, please visit:  
<https://entrenamientointeligente.es>