

## Huawei optical-to-electrical converter module not recognized



### Overview

Check whether the optical modules are Huawei-certified ones. If not, contact the supplier of the optical modules.

### Key Takeaways

The module may not be recognized due to compatibility issues, incorrect port configuration, or abnormal optical power levels. Common Causes

- **Module Compatibility:** Huawei devices often require Huawei-certified optical modules. Non-certified modules may physically fit but can fail recognition or cause instability. Ensure the module matches the device's supported type (e.g., SFP, SFP-1000BaseT) and speed rating.
- **Port Configuration:** The optical port may be misconfigured. Check if the port is administratively down or set incorrectly (combo ports may need to be explicitly set to optical mode). Use commands like `display interface xgigabitethernet0/0/2` to verify port status.
- **Fiber Type Mismatch:** Single-mode modules require single-mode fiber, and multi-mode modules require multi-mode fiber. Mixing fiber types can prevent recognition.
- **Optical Power Issues:** If the transmit (Tx) or receive (Rx) optical power is outside the normal range, the module may not function. Use `display transceiver interface xgigabitethernet 0/0/2 verbose` to check power levels.

- **Hardware Faults:** Faulty ports or modules can prevent recognition. Performing a self-loop test by connecting the module to itself can help determine if the port or module is defective .

#### Troubleshooting Steps

- **Verify Module and Fiber Compatibility:** Confirm the module type, speed, and fiber type match the device specifications .
- **Check Port Status:** Ensure the port is enabled and configured for optical operation. For combo ports, explicitly set the port to optical mode if necessary .
- **Inspect Optical Power:** Measure Tx and Rx power levels. Replace the module if Tx is abnormal, or check the peer device and fiber if Rx is abnormal .
- **Perform Loopback Test:** Connect the fiber jumper to the same module to see if the port goes Up. If it does, the port is functional; if not, the port may be faulty .
- **Replace with Certified Module:** If using a third-party module, try a genuine Huawei module to ensure recognition and stability .
- **Switch Ports:** If the problem persists, try another optical port to isolate whether the issue is with the original port . By systematically checking compatibility, configuration, fiber type, optical power, and hardware integrity, most recognition issues with Huawei optical-to-electrical converter modules can be resolved.

## Article Content

### Typical Troubleshooting Cases of Optical Module

Check whether the optical modules are Huawei-certified ones. If not, contact the supplier of the optical modules. If possible, remove

### Troubleshooting Optical Module Issues

Check whether the transmit optical power and receive optical power of the optical module are within the normal range.

### Checking the Optical Module Type

The optical module cannot be installed in an optical interface because the optical module structure is non-standard. The structure

How to plug and unplug Huawei optical-to-electrical converter module ...

Replacing an Optical Fiber, Optical Module, Electrical Module, or a Replacing an optical fiber, network cable, optical module, or

Optical Module Solutions for Huawei S5700/S5720 Series Switches

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

### Checking the Working Modes

Check whether the working modes of two optical modules are correct, including the receive power, transmit power, and

### 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

### How to Fix Optical Transceiver Compatibility Errors on Cisco, Huawei ...

Step-by-step CLI commands to fix optical transceiver compatibility errors on Cisco IOS, NX-OS, Huawei VRP, and

### Troubleshooting Optical Module Issues

The port does not match the optical module. The optical fiber does not match the optical module. The optical module

### Typical Troubleshooting Cases of Optical Module

Use an optical power meter to measure the transmit power of the optical module. If the transmit power of the optical module is not in

### Checking the Optical Module Type

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

### An Optical Module Does Not Send Optical Signals

Use an optical power meter to check whether the transmit optical power of the optical module is normal. If the transmit optical power

### Information About an Optical Module Cannot Be Read

Check whether the optical module has been certified for Huawei Ethernet devices. If not, contact the supplier of the

### Troubleshooting for Optical Modules on Huawei Switch

This depends on the transmit/receive power of the optical module and the transmission distance. Multiple types of Huawei devices

### Troubleshooting Guidelines for Optical Modules

Procedure Check whether the optical module has been certified for Huawei Ethernet devices. If not, contact the

### 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

### Displaying Optical Module Information

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

### Optical/Electrical Modules

Before using the optical module, please understand the risk of using the non-certified optical module and how to How

## Contact Us

Continue your research online:

Website: <https://rivomultitrade.co.za>

Technical inquiry: <https://rivomultitrade.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

