

Article Overview

Testing Huawei optical modules involves verifying port status, module parameters, and optical power using device commands and diagnostic tools.

Step 1: Verify Port and Module Status

Connect the optical module to the Huawei switch or OLT port. Use the command display interface to check the port link status, speed, and transceiver type. A link status of UP indicates normal operation. You can also run display interface brief to view all ports and their statuses .

Step 2: Check Module Parameters

Use the display transceiver command to view detailed information about the optical module, including:

- o Transceiver type and connector type
- o Wavelength and transfer distance
- o Digital Diagnostic Monitoring (DDM) status
- o Vendor and serial number
- o Temperature, voltage, and bias current
- o RX and TX optical power and thresholds Compare these values with the module datasheet to ensure compatibility and proper operation.

Step 3: Measure Optical Power

Use an optical power meter to measure the receive (RX) power of the port. Ensure the optical fiber is properly connected and not damaged. If the RX power is outside the acceptable range, check the fiber connection or replace the module .

Step 4: Loopback Test

Form a loop on the port using a single optical fiber to test whether the port goes UP. If the port does not come up, the optical module may be faulty and should be replaced .

Step 5: Check Peer Device Configuration

Verify the configuration of the interconnection port on the peer device, including auto-negotiation settings. Incorrect configuration can prevent the link from coming up. Reconfigure the peer device if necessary .

Step 6: Troubleshoot and Replace

If the module fails the above tests, replace it with a spare. If the issue persists, it may be caused by environmental factors or device configuration, in which case optimize the setup or contact Huawei technical support .

Additional Tips

- o Always ensure the module is compatible with the switch or OLT model.
- o Monitor traffic statistics and error counters to detect intermittent issues.
- o Use DDM readings to proactively identify potential failures before they affect network performance . By following these steps, you can effectively test Huawei optical modules for functionality, compatibility, and performance.

Thunder-link.com will test each batch of optical modules and truthfully inform customers the test results, before you decide to

Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a

Optical modules are available in various types to meet diversified requirements. Classified by transmission rates Currently, the

Optical Module: Typical Optical Module Troubleshooting Procedure Check the model of the faulty optical module. If it is not a Huawei

Use an optical power meter to test the receive power of the port and check whether the optical fiber is disconnected. Use one optical

On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the

Check whether an optical module is a bogus one. An optical module delivered by Huawei is uniquely identified by an SN. If two or

To address these challenges, Huawei's StarryLink optical modules deliver a high-quality network experience with

Huawei offers a comprehensive portfolio of pluggable StarryLink optical modules for data center networks, with various models

China Mobile Research Institute, together with Huawei and Yangtze Optical Fiber and

Optical Module quality control-Test Procedure In order to ensure that the optical module we deliver do not have compatibility

Maker of optical modules surpasses CATL in weighting thanks to off-the-charts demand from Alphabet, Amazon, Meta

BackgroundIn past projects and testing experience, it was commonly believed that Huawei CE series switches would not generate

Remove and reinstall the optical module. If the fault persists, replace the optical module with a normal one of the

100GE QSFP28 Optical Modules Important Notes About Using Optical Modules Certified for Huawei Switches How to Identify

Optical Modules in Intelligent Computing Scenarios In the AI era, Huawei provides a full range of GE to 800GE optical modules,

Web: <https://bssoda.pl>

