Huawei optical module not emitting light

Article Overview

A Huawei optical module not emitting light is usually caused by a faulty module, improper installation, fiber incompatibility, or contamination of the optical ports.

Common Causes

o Faulty Optical Module: The module itself may be defective, including issues with the laser transmission circuit .

o Improper Installation: The module may not be securely seated in the port. Reinstalling it can sometimes restore functionality .

o Fiber Compatibility Issues: Single-mode and multi-mode fibers must match the optical module type. Using a 10G module on a 1G interface or mixing fiber types can prevent light emission .

o Contaminated Optical Ports: Dust or dirt on the optical bores can block light. Cleaning with a cotton swab and using dust caps on idle ports is recommended .

o Incorrect Fiber Connection: Reversing the transmit and receive ends of the fiber jumper can prevent light from being transmitted .

o Device or Software Issues: Bugs in device management or driver software may affect module operation. Rebooting or updating firmware may help .

Diagnostic Steps

o Check Optical Power: Use an optical power meter to measure the transmit and receive power. If abnormal, the module may need replacement .

o Verify Module Status: Run commands such as display interface or display transceiver interface verbose to check link status, optical power, and module type .

o Loopback Test: Connect the fiber jumper to the same module to test if the port emits light. This helps isolate module vs. fiber issues .

o Swap Modules or Ports: Install the module in another compatible port or replace it with a known working module to confirm if the original module is faulty .

Recommended Actions

o Clean optical ports and ensure dust caps are used on idle modules.

o Reinstall the module securely in the port.

o Check fiber type and module compatibility.

o Replace the module if optical power remains abnormal or the module fails diagnostics.

o Contact Huawei technical support if the problem persists after these steps . Following these steps systematically can help identify whether the issue is with the optical module, fiber, or device configuration, ensuring proper restoration of optical signal transmission.

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

Power Module Troubleshooting Fan Module Troubleshooting Optical Module Troubleshooting Case Study: Optical Modules on the

If the optical module is faulty, replace it. If the fault is caused by incorrect configuration or networking environment, change the

Install or remove optical fibers carefully to avoid damages to fiber connectors. Optical modules are hot swappable, and you do not

Check whether the transmit optical power and receive optical power of the optical transceiver are within the specified

Replacing an Optical Module Context Invisible laser beams will cause eye damage. When replacing optical modules, do not look into

Displaying Optical Module Information You can use the display commands to view information about the optical module on an

Check whether the optical module is Huawei-certified. If it is not certified by Huawei, replace it with a Huawei certified one. Remove

Problem: All optical ports cannot be connected, and the indicator lights are not on. Solution: To solve this problem,

The optical channel of NE80E shows that NE80E receives the light from NE40E only, while the interface of NE40E is Down. The

Procedure Check whether the optical modules have been certified by Huawei. Devices must use optical modules certified by Huawei.

Procedure Use an optical power meter to test whether the transmit power of the optical module is normal. If not, replace the optical

You are advised to replace the optical module. To ensure normal communication between two optical interfaces, check for transmit

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Installing an Optical Module Context This section describes how to install an optical module. The method used to install a copper

When using switches, we may encounter many confusions, such as what types of optical modules are needed for

When this optical module uses OM3 multimode optical fibers, its transmission distance is 0.3 km. The optical modules used on both

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