

Huawei optical module not emitting light and therefore unusable

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.

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If this optical module is not delivered from Huawei or is not customized for Huawei, replace it with a Huawei

If the transmit optical power is abnormal, replace the optical module. Remove and reinstall the optical module. If the fault persists,

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

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

The Huawei-certified optical module has a silkscreen label of five lines printed above the barcode, and the silkscreen font must be

Guide to Using Pluggable Modules The system may fail to obtain information about non-Huawei-certified optical modules or obtain

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

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

Check whether the light emitting circuit of the optical module is faulty. If the optical power is still not normal after the optical module is

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

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

Some non-certified optical modules are not designed in compliance with EMC standards and have low anti-interference capability.

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

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optical module troubleshooting guide covering common faults, compatibility issues, optical link failures, ESD risks, and

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

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

Web: <https://www.millstraining.co.za>

