

Article Overview

A Huawei optical module may fail to send signals due to faulty hardware, incorrect installation, port configuration mismatches, or non-certified modules.

Check Physical Installation and Module Health

Ensure the optical module is securely installed in the port. Remove and reinstall the module to confirm proper seating. Use an optical power meter to measure the transmit optical power; if it is abnormal, the module may be faulty and require replacement with a Huawei-certified module of the same type .

Verify Port and Module Compatibility

- o Confirm the optical module type matches the port (single-mode with single-mode fiber, multi-mode with multi-mode fiber).
- o Check that the wavelength, speed, and duplex settings are compatible on both ends of the link .
- o If the port is a combo port, ensure it is configured to operate as an optical port .

Use Huawei Commands to Diagnose

- o Run display transceiver to view all optical module information or display transceiver interface for a specific port .
- o Use display interface to check link status, interface rate, and traffic statistics; the link must be UP for normal operation .
- o For detailed diagnostics, use the verbose parameter to view receive and transmit power, temperature, voltage, and bias current .

Check Fiber and Connection

- o Ensure the fiber jumper is not reversed and is in good condition.
- o Verify that the fiber mode matches the module and that there is no excessive attenuation or damage .
- o If the opposite module's indicator light is off, try switching fiber ends to isolate the faulty side .

Additional Considerations

- o Non-Huawei-certified modules may not function correctly; replace with a Huawei-certified optical module if necessary .
- o If FCS or CRC errors occur, perform a self-loop test to determine if the port itself is faulty .
- o If the problem persists after these checks, collect log information and contact Huawei technical support for



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further assistance . Following these steps systematically should help identify whether the issue is due to the optical module, port configuration, fiber connection, or compatibility, allowing you to restore normal optical transmission.

Huawei is not responsible for any problem caused by the use of non-Huawei-certified optical modules and will not fix such problems.

Optical Modules Fail to Communicate Symptom Two optical interfaces are interconnected through optical fibers. An

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

Devices must use optical modules certified by Huawei. Those that are not certified by Huawei cannot ensure service reliability, and

This FAQ addresses the most common pre-sales and post-sales questions regarding replacement battery modules for Huawei UPS

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

At this time, it is suspected that either the softswitch has not issued the digitmap, or the softswitch has issued the digitmap but the

Replace the optical module, and check whether the alarm is cleared. If so, the alarm handling ends. If not, collect alarms, logs, and

An Optical Module Does Not Send Optical Signals The Transmit Optical Power of an Optical Module Is Too Low Information About

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

Replacing an optical module interrupts services. Ensure that the optical module is faulty before replacing it. Only external optical

The optical module cannot be installed in an optical interface because the optical module structure is nonstandard. The structure and

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This may cause low receive optical power on the remote optical module. As a result, the remote interface may not go Up or discard

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

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

5. To locate which optical module is abnormal, after the optical modules of NE80E and NE40E are changed, the interface of NE80E

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