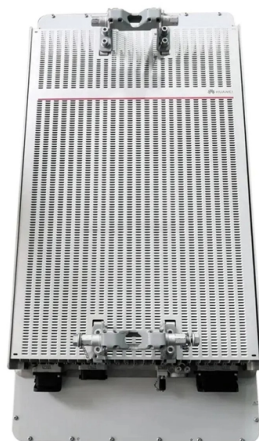


The optical module on the switch has expired



Overview

Most switch brands have specific compatibility requirements, especially when using third-party optical modules.

Key Takeaways

An expired optical module typically needs to be replaced with a certified or compatible module to restore proper switch functionality.

When a switch reports that an optical module has expired, it usually indicates that the module is no longer recognized, unsupported, or has reached its end-of-life. This can prevent the port from going up, cause link failures, or trigger alarms such as LOS (Loss of Signal) on the switch interface .

Immediate Troubleshooting Steps

- Check Module Recognition and Compatibility
- Verify that the optical module is compatible with your switch model. Some switches, like Huawei CE series or Extreme switches, require certified modules; non-certified modules may show as unsupported or fail to operate .
- Use switch commands to check module status:
- Huawei: `display interface transceiver` or `display interface transceiver verbose` to view alarms and power levels .
- Cisco: `show fiber-ports-optical-transceiver` to check Tx/Rx power, LOS, and module identification .

- Extreme: query DDM diagnostics for temperature, voltage, and optical power .
- Inspect Optical Power and Fiber Connections
- Measure transmit and receive power using an optical power meter. Low or high power readings may indicate a faulty module, dirty connectors, or fiber issues .
- Ensure the fiber type matches the module: single-mode modules with single-mode fiber (yellow) and multimode modules with multimode fiber (orange), .
- Clean optical bores and connectors with proper tools and cover unused ports with dust plugs .
- Reinstall or Restart
- Remove and reinstall the module to see if the fault clears.
- If the issue persists, reboot or power cycle the switch. Be cautious as this may temporarily disrupt network services .

Replacement and Certification

- If the module is expired or faulty, replace it with a certified or compatible optical module. Look for manufacturer logos or certification labels to ensure compatibility with your switch .
- Using a certified module ensures the port can go up and avoids alarms related to unsupported hardware.

Additional Considerations

- Check the switch software version; some modules require updated firmware to function correctly .
- Monitor the module after replacement to ensure link stability, proper optical power, and absence of alarms. By following these steps, you can identify whether the expired module is causing the issue and restore proper network connectivity by replacing it with a certified or compatible optical module.

Article Content

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Diagnose switch optical link failures by checking module and fiber compatibility, port status, Tx/Rx optical power

Typical Troubleshooting Cases of Optical Module

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Based on typical issues encountered with optical modules in daily switch applications, this document summarizes

optical module Troubleshooting and Common Problems

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

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Learn how to troubleshoot optical modules step by step. Discover common causes of link failure, optical power issues,

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View the Optical Module Status on a Switch through the

Once the transceiver and fiber optic cable are plugged in properly in the switch optical module, you should be able to view the current

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What is the most common cause of optical module failure? The most common cause is lack of baseline optical power

Optical Module Application: Common Problems & Troubleshooting

Most switch brands have specific compatibility requirements, especially when using third-party optical modules. First

Troubleshooting for Optical Modules on Huawei Switch

The type of optical modules used on the two ports is not restricted. For example, a port with an XFP optical module can communicate

Typical Troubleshooting Cases of Optical Module

Check whether the information is consistent with the optical module specifications provided in the product documentation. (For

Optical Interface Interconnection Is Abnormal on CE Switches ...

View the Transceiver Type field to check whether the local optical module type matches the remote optical module

port is disconnected due to optical module faulty

This alarm indicates the port and switch has been disconnected. Hence, we would advise you to perform cross test to

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Therefore, alarms about optical modules that are not certified for Huawei Ethernet switches are generated. You can run

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The first thing you should do is re-plug the optical module into the switch slot and make sure it is firmly inserted. If the

Displaying Optical Module Information

An optical module has received Huawei switch certification if it meets the following conditions: In the display elabel command output,

Optical Module Failure Diagnosis and Prevention: Securing Network

A comprehensive guide on Optical Module Failure diagnosis and prevention to maintain network stability through

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By thoroughly understanding common optical module problems and their solutions, engineers can identify failures

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