Disable function in optical modules

Overview

By default, a large number of alarm messages will be generated if the module is verified as non-H3C original.

Key Takeaways

You can disable an optical module either manually or automatically to stop laser emission or transmission, using device-specific commands or settings.Manual Laser or Transmission Disable
• Huawei Devices: To manually disable the optical module laser, access the system interface and run the command laser turn-off. This immediately stops the laser but will interrupt services on the interface, so it should only be done when the interface is not actively transmitting data. Manual enabling can be done later with laser turn-on to check service recovery .

• Intel X710/XL710/X722 SFP Modules: On Linux systems using the i40e driver, you can disable the TX port (laser transmission) by first setting the NIC down with ifconfig down and ensuring the SFP module supports TX disable. Additionally, set the private flag link-down-on-close to ON to maintain the TX-disabled state after reboot .
Automatic Laser Disable
• Huawei Devices: You can configure the optical module to automatically disable the laser when a link failure is detected using the command laser autoshutdown enable. Optionally, you can set intervals for automatic checks with laser auto-shutdown-interval { open open-value | close close-value } . This prevents accidental exposure to the laser during troubleshooting.
Safety Precautions
• Always power on the device and ensure it passes self-checks before disabling the module .

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• Avoid looking directly into active fiber ports, even if the module is low-power or Class 1 .

• Disabling the laser or TX port interrupts network services, so plan maintenance accordingly .
Managing Alerts
• On some devices, such as F5 BIG-IP, disabling an optical module may trigger alerts like “Unsupported Optic.” You can suppress these alerts by editing the alert configuration file (/etc/alertd/alert.conf) and backing up the original configuration . By following these steps, you can safely disable an optical module for maintenance, troubleshooting, or compliance with safety protocols while minimizing network disruption.

Article Content

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Everything You Need to Know About Optical Modules

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Purpose: It list How to enable E810 QSFP TX_disabled function by Linux ice driver for customer reference, Target Audience: For

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If this optical module was delivered from Huawei earlier, run the transceiver phony-alarm-disable command to disable

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You can configure the alarm thresholds for the power, temperature, current, and voltage of optical modules, and the interval at which

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The function of optical modules is to bridge different network components while transmitting and receiving data.

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