

Command to disable optical module



AI Overview

Optical modules can be disabled using device-specific commands such as laser turn-off on Huawei, controller optics disable on Cisco, or ifconfig down with TX disable on Intel NICs.

Huawei Devices On Huawei routers or switches, you can disable the optical module laser manually to prevent accidental exposure during maintenance. The commands are:

- Manual disable: laser turn-off** This immediately disables the laser but interrupts services on the interface, so it should not be run on an active link.
- Automatic disable on link failure: laser autosutdown enable** You can also configure intervals for automatic enable/disable using: `laser auto-shutdown-interval { open open-value | close close-value }`.

Third-party modules on Huawei switches, alarms can be disabled using: `transceiver non-certified-alarm disable`.

Cisco Devices On Cisco 8000 Series routers, the optical module can be administratively disabled using the CLI:

- Enter optics controller configuration mode:** `controller optics`
- Disable the transceiver module:** `shutdown` or set the administrative state to maintenance. This disables the module without physically removing it and can be used for maintenance or troubleshooting.

Intel NICs (X710, XL710, X722) For Intel-based SFP modules, the TX port can be disabled via Linux commands:

- Enable TX disable function:** `set link-down-on-close private flag ON`.
- Bring the interface down:** `ifconfig down` This stops the SFP module from transmitting laser signals.

Note: The setting may revert after reboot, so a script is recommended to persist the configuration.

Juniper Devices On Juniper devices running Junos OS, optical modules can be set to low-power mode or disabled using:

- `low-power-mode` to reduce laser output
- `host-side-fec disable` or `media-side-fec disable` to disable forward error correction on optics
- `Loopback` and administrative options can also control module activity.

Key Considerations

- Service impact:** Disabling the optical module may interrupt traffic. Always ensure the interface is not actively carrying critical traffic.
- Safety:** Disabling the laser is important before troubleshooting...

Article Content

How To View Port Status And Optical Module Information On Cisco ...

Optical modules work on the switch usually need to read the internal information of the module to understand its working status, such as module connection and real-time collection of light,

How to View Optical Module Status on a Cisco Switch

In this Cisco Tech Talk, learn how to view the optical module status on a Cisco switch using the Command Line Interface (CLI). This video

View the Optical Module Status on a Switch through the

This article provides instructions on how to view the Optical Module Status on your switch through the Command Line Interface (CLI).

Enabling or Disabling the Optical Module Laser

Pre-configuration Tasks Before enabling or disabling the optical module laser, complete the following tasks: Power on the router and ensure that the router passes the self-check. Ensure that the optical

Interface and Hardware Component Configuration Guide for Cisco

Instructions for configuring controllers, managing optical modules, and monitoring coherent optical transceiver parameters.

Removing and Installing Transceivers and Fiber-Optic Cables on

Laser Warning: Do not look directly into a fiber-optic transceiver or into the ends of fiber-optic cables. Fiber-optic transceivers and fiber-optic cables connected to transceivers emit laser light

set interface optics-monitor enable

The set interface optics-monitor enable command enables or disables optical module monitoring and alerting for all switch interfaces. You can check monitoring information of optical

Dell Command Update – Install & Manage via PowerShell

So, now that you can do all this via PowerShell, you can turn this into remediations scripts to run from Intune or ConfigMgr, or any management

How To Turn Off Alarms For Third-Party Modules On H3C Switches

By default, a large number of alarm messages will be generated if the module is verified as non-H3C original. H3C provides CLI commands to suppress these optical module alarm

show interfaces diagnostics optics | Junos OS | Juniper Networks

Output Fields Table 1 lists the output fields for the show interfaces diagnostics optics command. Output fields are listed in the approximate order in which they appear. Transceivers generate monitoring

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How To Turn Off Alarms For Third-Party Modules On Huawei Switches

Huawei switches perform authentication on inserted optical modules. By default, numerous alarm messages will be generated when a non-original Huawei module is used. Huawei

Enabling or Disabling the Optical Module Laser

Run the laser turn-off command to disable the optical module laser. Run the laser autosutdown enable command to configure the optical module to disable the laser automatically if it detects a link failure.

Optics Commands

To use commands of this module, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using any

How To Enable Support For Third-Party Modules On Cisco Switches

In global configuration mode, execute the following commands in sequence to disable the switch's optical module validation and allow third-party modules: service unsupported-transceiver. no

How to stop messages for SFP not certified by Huawei

The transceiver phony-alarm-disable command disables the alarm function for non-Huawei-certified optical modules. <HUAWEI> system-view transceiver phony-alarm

How Can I Disable the Alarm Function for Optical Modules That Are

Run the transceiver non-certified-alarm disable command to disable the alarm function for optical modules that are not certified for Huawei Ethernet switches.

Optical Module: Typical Optical Module Troubleshooting Procedure

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 GE port, run the display interface GigabitEthernet x/x/x command to

View the Optical Module Status on a Switch through the Command

Once the transceiver and fiber optic cable are plugged in properly in the switch optical module, you should be able to view the current information for the optical connection, which helps you manage

How to set X710, XL710, X722 SFP Port Tx disable

Purpose: It list How to enable X710/X710/X722 SFP TX_disabled function by Linux i40e driver for customer reference, Target Audience: For Advantech TSE, RBU

Cisco SFP Commands Cheat Sheet: Check Status

This guide gives a practical, CLI-focused workflow for checking SFP health and diagnostics on Cisco switches, shows the exact commands you'll use, explains

How To Enable Support For Third-Party Modules On

By default, Cisco switches perform authenticity validation on inserted optical modules. If a module is identified as non-Cisco original, the switch may

Interface and Hardware Component Command Reference for Cisco

This module describes the command line interface (CLI) commands for configuring Optics on the Cisco 8000 Series Routers. Not all commands are supported on both coherent and non

directory-list-2.4.txt/directory-list-2.4.txt at main

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How to set X710, XL710, X722 SFP Port Tx disable function

Content: 1. TX disable function means SFP module's TX port to disable laser signal after key-in "ifconfig <NIC> down" 2. By Intel default setting, the X710/XL710/X722 network Link/speed LED always keep

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