

RIVO MULTITRADE OPTICAL SYSTEMS

How to restore the default values of the optical module



Overview

Default values are set to optimize the power consumption by Cisco 400G Digital Coherent QSFP-DD optical modules.

Key Takeaways

Restoring an optical module to its default values typically involves clearing its configuration, reseating the module, or performing a vendor-specific reset command. Check Module Status

Before attempting a reset, verify the optical module's operational status:

- Use commands like display interface transceiver (Huawei) to check alarms, transmit/receive power, and diagnostic information .
 - Ensure the interface is not administratively shut down; if it is, use undo shutdown to bring it up .
 - For Cisco optical modules, check if the module has previous configurations that need clearing before replacement .
- Clear Configurations

To restore default values:



- Huawei switches: There is no direct “factory reset” command for SFPs, but clearing interface configurations and ensuring the interface is up effectively restores operational defaults .
- Cisco NCS optical modules: Use commands to clear card parameters, OTS controller configurations, and controller optics configurations if previously configured . This ensures the module operates with default settings.
Reseat or Replace the Module
- Physically remove and reinsert the optical module to refresh its connection. This can resolve minor configuration or detection issues .
- If the module continues to malfunction, replacing it may be necessary, as some modules (like CP2112) are OTP (One-Time Programmable) and cannot revert VID/PID or other programmed values once changed .

Vendor-Specific Reset

- Some devices, like Brocade Connectrix, automatically detect a module reset and initiate recovery. Monitoring logs can confirm successful reset and recovery .
- For modules with programmable fields, use vendor tools (e.g., Xpress Configurator for CP2112) to lock or configure default values on new modules .

Summary

- Check the module status and alarms.
- Clear any existing configurations using vendor-specific commands.
- Reseat the module to refresh the connection.
- If the module is OTP or continues to fail, replace it.
- Use vendor tools to lock default values on new modules if needed. Following these steps ensures the optical module operates with default parameters and resolves common issues related to misconfiguration or signal alarms .

Article Content

Troubleshooting Enterprise Router Factory Reset: Optical Interfaces ...

By default, many enterprise routers disable non-vendor-approved optical modules. To verify compatibility, use "show interface

Interface and Hardware Component Command Reference for Cisco

Default values are set to optimize the power consumption by Cisco 400G Digital Coherent QSFP-DD optical modules.

Optical Module Debugging Guide

errors Reading of optical module EEPROM registers can be done via either hexdump or I2C tools (choose one of the

Configure Optical Modules

When you plan to replace a configured optical module with a different type of optical module, you must clear the configurations of the

PON Interface Configuration Commands

Using the optical-module threshold bias command, you can set the lower and upper alarm thresholds of the bias current for the

Optical Module: Typical Optical Module Troubleshooting Procedure

If the optical module is faulty, replace it with the spare part. If the fault is caused by the configuration or environment, advise the

Connectrix Brocade: Optical Module reset detected on slot x port y

Frames in transit will be dropped during recovery. It is an SFP issue. a) Reseat the SFP. b) Sfpshow -f to refresh the data, check the

Optical Module Application: Common Problems & Troubleshooting

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

How to Fix Optical Transceiver Compatibility Errors on Cisco, Huawei ...

Step-by-step CLI commands to fix optical transceiver compatibility errors on Cisco IOS, NX-OS, Huawei VRP, and

Optical Module Reset

This article helps engineers quickly identify optical module installation issues and take targeted measures to restore network

Optical Module Troubleshooting

The command output includes the current transmit and receive power values of the optical module, as well as the

View the Optical Module Status on a Switch

Once the transceiver and fiber optic cable are plugged in properly in the switch optical module, the Optical Module

Optical Multi Service Edge Nortel

Note 2: Restore Defaults button can be used to bring back the alarm severity levels to default values. Optical Multiservice Edge 6110

Replacing an Optical Module

Optical modules are electrostatic-sensitive components; therefore, you must take ESD protection measures when replacing optical

Coherent Optical Module Troubleshooting Guide: OSNR, DSP, FEC,

Coherent optical modules are widely used in metro, DCI, and long-haul optical networks where high capacity and

Setting Optical Power Alarm Thresholds

The configured optical power alarm thresholds must be within the default range. The default optical power alarm thresholds are

Optical Module Common Failure Of Optical Power Abnormality

When optical transceivers at both ends of the link work normally, the transmit optical power must be within the

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

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