

Where can I find the model number of the optical module



Overview

Optical Modules (also known as Optical Transceivers) are critical components in fiber optic communication systems.

Key Takeaways

The model number of an optical module can be found either via vendor-specific commands on the network device or by inspecting the chip markings inside the module.

Using Network Device Commands

1. Cisco Devices:

- Use `show inventory` to list all installed modules, including Product ID (PID), Version ID (VID), and serial numbers.
- Use `show interface transceiver detail` to view Digital Diagnostic Monitoring (DDM) metrics such as temperature, voltage, Tx/Rx power, and vendor details, which often include the module model number .
- For Nexus switches, `show interface transceiver` or `show inventory` all can provide SFP/SFP+ module details .

2. Huawei Devices:



- Run display transceiver [interface interface-type interface-number | slot slot-id] to view detailed optical module information.
- Use display transceiver diagnosis interface [interface-type interface-number] to check diagnostic data, including module type, wavelength, and transmission distance .

3. Fortinet Devices:

- Commands like get system interface transceiver or get system interface transceiver display vendor, serial number, and module type.
 - diagnose hardware deviceinfo nic can provide additional interface-specific details .
- #### Inspecting the Optical Module Chip

Optical modules contain several semiconductor chips such as laser chips, photodetectors, driver chips, TIA chips, and DSP chips. Each chip has a model number printed on it, which identifies its type, supported data rate, and manufacturer. By reading these markings, engineers can determine:

- Chip type (e.g., VCSEL, DFB, EML for lasers)
- Supported transmission speed (e.g., 25G, 100G, 400G)
- Application environment and technology platform .

Once the chip model number is obtained, it can be cross-referenced with the manufacturer's datasheets or electronic component databases for detailed specifications.

Summary

To find the model number of an optical module:

- Use device CLI commands appropriate for your vendor to display module information.
- Check the module physically for chip markings if detailed chip-level identification is needed.
- Verify against manufacturer documentation to confirm specifications, supported speeds, and compatibility.

This approach ensures accurate identification for maintenance, troubleshooting, or procurement purposes.

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This article provides instructions on how to view the Optical Module Status on your switch.

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Optical module

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Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a

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How to Check a Router Model. If you have physical access to the router, you can usually find the model

The Key External Components of Optical Modules

An optical module serves as the backbone of modern fiber-optic communication. Its appearance often resembles a

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This article shows how to find basic information about your Windows device, including your device name and model,

Finding Model Numbers

On most devices, you can usually find the model number on a label located on the front, back, side, or bottom

View the Optical Module Status on a Switch

Objective The Cisco Small Business Series Switches allow you to plug in a Small Form-factor Pluggable (SFP) transceiver in their

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

