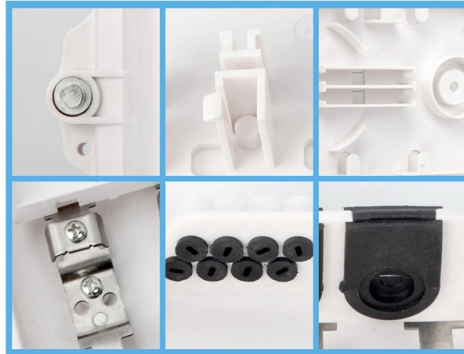


# Switch reads optical module register



## Overview

Run the following command to read identification information for the optical module on the target interface: `show transceiver interface <interface-type> <interface-number>` Run the following command to read identification information for the optical module on the target interface: `show transceiver interface <interface-type> <interface-number>` Every pluggable optical transceiver (SFP, SFP+, QSFP, QSFP28, etc. ) ships with a small EEPROM that stores two kinds of information: a fixed Serial-ID block (vendor, part number, serial number, capabilities) and—when provided—a diagnostics area (real-time temperature, voltage, TX/RX power, etc. Check compatibility between the optical module and switch Most switch brands have specific compatibility requirements. This article provides instructions on how to view the Optical Module Status on your switch through the Command Line Interface (CLI). The Cisco Small Business Series Switches allow you to plug in a Small Form-factor Pluggable (SFP) transceiver in their optical modules to connect fiber optic cables. • EEPROM data encoded/decoded in key/value pairs. Same API: Any Linux-based NOS, any switch, any module vendor, any module type. Open Source, easy to maintain, easy to extend. OOM HAS A PROBLEM!!! OOM works.



## Article Content

Nov 05, 2025

What are I2C, MDIO and CMIS Access in Optical

Allows access to optical transceivers' register pages (memory map) to Read their status and Write (program) their configurations.

Aug 21, 2025

View the Optical Module Status on a Switch through the Command

This article provides instructions on how to view the Optical Module Status on your switch through the Command Line Interface (CLI). The Cisco Small Business Series Switches allow you to plug in a

Jun 30, 2025

Displaying Optical Module Information

Displaying Optical Module Information Context When the optical module on an interface is faulty, you can run the display commands to view information about the optical module.

Aug 15, 2025

How To Read Optical Module Information On H3C Switches

The following uses the Moduletek QSFP-40G-LR4 module connected to an H3C S6820 switch as an example to introduce how to read information of the connected optical module on an H3C switch.

Jul 29, 2025

Displaying Optical Module Information

The A0 registers of some non-Huawei-certified switch optical modules are set incorrectly. As a result, parameters and diagnostic information cannot be read or read incorrectly by the data bus.

Jan 10, 2026

View the Optical Module Status on a Switch

Article ID:5508 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

Nov 26, 2025

Troubleshooting and Repairing Optical Transceiver Failures in

SFP or SFP+ optical transceiver failure can happen in multiple recognizable ways. The most notable fault is the “module not detected” error, which describes a situation in which a switch

Dec 16, 2025

Enabling/Configuring QSFP28 module

You will need to write software to set the appropriate registers to turn the laser on. The Tx and Rx are fairly independent (for QSFPs that don't have internal FEC), and you can check the signal detect

Jul 03, 2025

Teach you to read the DDM information of the optical

When you are not familiar with optical module products, you may not understand the DDM information of optical module read on the switch. In this

Mar 21, 2026

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

When optical modules operate on a switch, it is usually necessary to read the module's internal information to understand its working status—such as connection status and real-time

Mar 03, 2026

View the Optical Module Status on a Switch

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

Feb 08, 2026

How To Read The Information Of Optical Module In Ruijie Switch

When the optical module works on the switch, it is usually necessary to read the internal information of the module to understand its working status, such as the module connection and real

Mar 17, 2026

Tech Talk - View the Optical Module Status on a Switch with CLI

In this edition of Cisco Tech Talk, I'll show you how to view the optical module status on a switch through the Command Line Interface also referred to CLI.

Feb 17, 2026

Managing Optics Using Open Standard Software

January 2018 – "optoe" driver is in Open Network Linux (ONL) for 5 Accton switches and one Quanta switch. We expect additional switches and NOS vendors soon.

Jun 14, 2026

### How To View Port Status And Optical Module

To monitor the operating status of optical modules installed on a switch, it is necessary to read the module's internal information, including link

Jan 03, 2026

### 16 Tips to Troubleshoot Your Optical Transceiver Issues

If the problem persists, please check the compatibility of the optical module with your switch. Tip #3: Why is there no link after connecting two

Apr 10, 2026

### How to Read SFP & QSFP EEPROM Data — Practical

Practical, step-by-step guide to reading and interpreting SFP/QSFP EEPROM and DDM data (A0/A2), with commands, standards notes, and troubleshooting.

Sep 27, 2025

### Optical Module User FAQs

A fixed optical attenuator that yields a 10-15dB loss will help prevent an immediate overload condition, damaging the photodiode. Digital Optical

May 04, 2026

### How To Read Optical Module Information On A Network Card In Linux ...

For optical modules used on switches, we read their information via brand-specific terminal commands. This guide introduces how to read optical module information when it is installed

May 25, 2026

### How To Read Optical Module Information On H3C Switches

Optical modules are widely used in switches, network cards, routers, and other communication equipment. Reading optical module information during use helps understand its real-time operating

Oct 21, 2025

### How To Read Optical Module Information On Brocade Fibre Channel Switches

When an optical module works on a switch, it is usually necessary to read the internal information of the module to understand its working status, such as module connection status, real-time

May 14, 2026

All-Optical Switching Tutorial, Part 1

All-Optical Switching Tutorial, Part 1 A down-to-earth description of all-optical switches \* What they are\* What they do\* How they work

Nov 09, 2025

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 demonstrates

Dec 12, 2025

Optical Module Application: Common Problems & Troubleshooting

Based on typical issues encountered with optical modules in daily switch applications, this document summarizes basic troubleshooting steps for resolving common faults:

Jan 30, 2026

SFF-8024 Standard: Universal Transceiver ID and

When a module is inserted into a switch, router, or network appliance, the host reads these identifiers to determine the module's form factor,

Apr 20, 2026

How To View Port Status And Optical Module Information On MELLANOX Switches

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

Mar 25, 2026

Teach you to read the DDM information of the optical

In this article, ETU-LINK translates the English parameter information of optical module into Chinese, so that you can understand the meaning of these

May 08, 2026

Displaying Optical Module Information

Obtain the electronic label of the optical module and contact Huawei technical support personnel to confirm whether it is a Huawei-certified switch optical module.

May 06, 2026

Optical module

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical modules typically have an electrical interface on the side that

## Contact Us

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