

Where is the information for optical module A0 stored



Overview

The A0h page contains serial ID information for the specific module in question (defined by the SFP MSA), as well as some vendor specific data. 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. The purpose of this Digital Small Form Factor Pluggable (SFP) evaluation board kit is to provide the designer with a convenient means for evaluating Avago Technologies' GbE and Fibre Channel SFP w/DMI transceivers, as well as future SFP w/DMI MSA compatible product offerings. When the optical module on an interface is faulty, you can run the following command to view. As a universal photoelectric conversion module, the SFP optical module has uniform specifications for its structure, hardware and software to ensure broad compatibility with a wider range of host devices. Operating at the physical layer of the OSI model, optical modules are core devices in optical.

Article Content

Nov 23, 2025

Understanding Optical Modules: Working Principles,

Explore the working principles, structures, and performance metrics of optical modules, essential components of optical fiber communication systems. Learn

Nov 15, 2025

Optical Module Development Platform 2.5 Gbps Transmitter with

Address A0h contains the serial ID information and other static information regarding the module that the vendor specifies (Table I). This is used to support the basic GBIC requirements and the extended

Mar 14, 2026

How to view the optical module DDM information?

DDM (Digital Diagnostics Monitoring) is a feature that is included in optical modules, such as SFP, SFP+, QSFP, and QSFP+ transceivers. DDM provides detailed information about the optical

Sep 15, 2025

HFWriteCode User Guide

Insert the pins of the SFP optical module that you want to read into the corresponding SFP socket (as shown in Figure 5). Select the configuration file that corresponds to the SFP optical

Jul 26, 2025

View the Optical Module Status on a Switch through the

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

Sep 02, 2025

What Is an Optical Module and Its FAQs (V300)

Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a photoelectric converter which converts electrical signals into optical signals and

Jan 15, 2026

Huawei Technical Support

Learn how to display optical module information on Huawei devices using specific commands and understand the diagnostic details of optical modules.

Sep 30, 2025

SFP optical module (Writing firmware information tutorial)

All SFP packaged fiber modules can be used for reference. After the software opens, log in. Perform the following steps: 1) Select SFP Tab. 2) Page size set to : 8

Sep 11, 2025

Displaying Optical Module Information

Run the display transceiver diagnosis interface [interface-typeinterface-number] command to view diagnostic information about a specified optical module. This command displays the digital diagnostic

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Quick Reference Guide for Programming the DS1873 SFP+ Controller

Introduction The DS1873 controls and monitors all functions for small form factor (SFF), small form factor pluggable (SFP), and SFP+ modules including all SFF-8472 functionality. Six ADC channels monitor

Dec 01, 2025

How To Read Optical Module Information On Huawei Switches

Optical modules are widely used in switches, network interface cards (NICs), routers, and other communication devices. During use, reading optical module information helps understand

Mar 07, 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

May 18, 2026

Optical module - A comprehensive exploration

The optical module is one of the core devices of the optical communication system, and its development has a vital impact on its related

Jan 07, 2026

Understanding Optical Modules: Types and

Optical Modules (also known as Optical Transceivers) are critical components in fiber optic communication systems. As the core optoelectronic devices operating at the

Mar 30, 2026

Application Note 1300

Both documents specify a 256-byte memory map located in address 1010000X (A0h) and accessible over a two-wire serial interface. The A0h page contains serial ID information for the specific module

Feb 02, 2026

How to Read SFP & QSFP EEPROM Data — Practical

Two addresses on the transceiver 's I²C bus are essential: A0h (0xA0) — the serial ID / base EEPROM (96–128 bytes depending on form factor). You'll find identifier,

Mar 22, 2026

Displaying Optical Module Information

Context If an optical module on an interface is faulty, you can run the display commands to view information about the optical module.

Feb 18, 2026

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right module for your fiber network.

Mar 01, 2026

Unlocking the Secrets of Optical Discs: How Data is Written

Introduction to Optical Discs Optical discs have become a prominent medium for data storage since their inception. Used for everything from music and movies to software and backup

Aug 17, 2025

Application Note 1300

This document describes the details of the evaluation printed circuit board (PCB) and the test equipment and methods for evaluating the optical/electrical characteristics of SFP modules. In addition,

Feb 03, 2026

Displaying Optical Module Information

You can use the display commands to view information about the optical module on an interface, including conventional information, manufacturing information, and alarm information about the

Oct 21, 2025

How To View Port Status And Optical Module Information On

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

May 31, 2026

Brief Introduction to the Data Structure of SFP Optical Modules

The 256 bytes of A0h mainly contain identification information about the optical module, including basic module details such as manufacturer name, manufacturer model, serial number,

Jan 07, 2026

Displaying Optical Module Information

What Is the Impact of Using Non-Huawei-Certified Optical Modules? When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module

Dec 21, 2025

TI DLP® System Design: Optical Module Specifications

ABSTRACT The objective of this application note is to help product developers better understand optical module specifications and related system design considerations. This information helps expedite

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