

How to view EEPROM information on an optical module



Overview

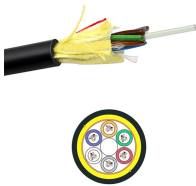
Run the following command to view device board information and identification details of all optical modules: `show inventory` The output includes the module type, serial number, Cisco-compatible part number, and other details, which are retrieved from the pre-programmed data in the. Run the following command to view device board information and identification details of all optical modules: `show inventory` The output includes the module type, serial number, Cisco-compatible part number, and other details, which are retrieved from the pre-programmed data in the. 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. EEPROM is a type of non-volatile memory, meaning it retains stored information even when the power is turned off. It allows data to be written, erased, and rewritten electrically. In optical transceivers, EEPROM provides a reliable way to store module-specific details that networking equipment can. The following introduces the specific operations to view the working status and internal information of an optical

module on a Cisco switch. This guide uses the Moduletek SFP-25G-SR optical module connected to a Cisco C9300 switch as an example. Figure 1 Schematic Diagram of Optical Module. SFF-8024 SFF Module Management Reference Code Tables : This specification provides codes for module identifiers, encoding values, connector types, extended compliance codes, host electrical interfaces and module media interfaces. When testing PRBS, there are 3 test nodes: MAC ----> PHY, PHY -----> MAC, and PHY ----- PHY. The specific viewing information is as follows:.

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Though small, EEPROM is the intelligence hub of optical transceivers. By storing identification codes, compliance data, and diagnostic parameters, it ensures that every SFP or QSFP ...



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



After power-up, the switch accesses the EEPROM via a serial communication protocol, such as I²C, to exchange information with the optical module and monitor its status.



The Optical Module Monitoring feature provides visibility into the status and performance of the optical modules inserted on the switch. It helps users monitor module status, detect faults, and ...



Learn Cisco commands like show inventory and show interface transceiver detail to monitor SFP modules, DDM metrics, and compatibility.



The DPDK API doesn't contain a function to set the module EEPROM, only to get the contents. The dpdk mlx5 driver issues ETHTOOL_GMODULEINFO and ...



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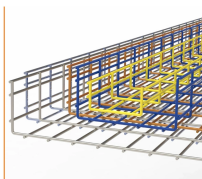
1. Document Purpose The purpose of this document is to introduce the debugging steps and commands for optical modules used with NADDOD switches, for reference by technicians and users. For any ...



Our team is dedicated to contribute to the development of optical modules, we hope that ICHIB can help people use optical modules more simply, quickly, conveniently and easily.



Use the command display transceiver to view the optical module information of all optical ports, and use the command display transceiver interface interface-type interface-number to view the ...



Additionally, identifying module information helps detect coding compatibility between the module and the switch. The following introduces the specific operations to view the working status ...

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