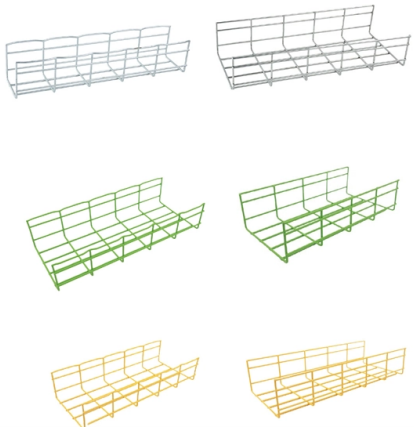
How to read information from an optical module in Linux



Overview

Use the opticsmon command in scripts or integrated with other monitoring solutions. Running opticsmon without arguments queries the current state of all supported optical modules. The output is given in JSON format. We connect Moduletek SFP-10G-LR transceiver to Intel. To check the details of an SFP module in Red Hat Enterprise Linux (RHEL), you can use the ethtool command., eth0, eth1): For Example: Identifier : 0x03. 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. For problem analysis. I need to collect hardware component inventory from physical systems running RHEL (6 and 7) and its derivatives. It takes the device name (like swp1) as an argument.

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Article Content

How To View Optical Transceiver Information On Network Cards In

Special commands are applied to check transceiver data on switches, and Linux systems also support reading transceiver information on network cards. We connect Moduletek SFP-10G-LR

How to check SFP Module transceiver, Vendor name & power check

To check the details of an SFP module in Red Hat Enterprise Linux (RHEL), you can use the ethtool command. Use the following command to check the SFP module details for a specific network interface.

How to Read SFP & QSFP EEPROM Data — Practical Guide

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

opticsmon

Example: Extract raw module data in hex The following pipeline uses jq, base64, and hexdump to produce the raw module EEPROM data for all supported network modules in a human-readable

hardware

To collect info about plugged modules you can use ethtool --module-info command. This command doesn''t require activation of interface. Start from this small script: ...

Monitoring Interfaces and Transceivers Using ethtool

The ethtool command enables you to query or control the network driver and hardware settings. It takes the device name (like swp1) as an argument. When the device name is the only argument to ethtool,

ethtool (8)

If the driver and module support it, the optical diagnostic information is also read and de- coded. When either one of page, bank or i2c parameters is specified, dumps only of a single page or its portion is

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Monitoring Interfaces and Transceivers Using ethtool

Monitor Switch Port SFP/QSFP Hardware Information Using ethtool To see hardware capabilities and measurement information on the SFP or QSFP module installed in a particular port, use the ethtool

hardware

I''m getting ''Cannot get module EEPROM information. Operation not supported'' when trying to pull this info off the interfaces that do not have a link on. Bringing up an interface at the OS

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view optical media and optical drive information in CLI

I have an optical media in an optical drive in a remote headless server. Is it possible to view: 1) optical media capabilities (is it a CD-R, CD-RW,

How to check SFP Module transceiver, Vendor name & power check

SFP modules are commonly used in networking equipment, such as switches, routers, and network interface cards, to provide flexibility in connecting different types of optical and electrical interfaces.

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

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