

# Cracking the EEPROM Optical Module





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### Slide 1

To address problems with consistent access to EEPROM information on optical transceivers during OCP Interop testing. How can you Access & Participate in OOM? Download, use and improve!

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### SFPTOTAL(TM)

The coding boards make able to succesfully recode transceivers most popular form factors produced by different world factories. A distinctive feature is the lack of

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## **SFP Module Coding Recognition Failures and Solutions**

Troubleshoot and solve SFP module recognition failures with stepwise diagnostics, firmware insights, and vendor-specific compatibility

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## **And now for a bit of EEPROM hacking - Have Blue [dot**

Correct, you need to get an EEPROM dump before you start using a new cartridge. There is no way to refill a cartridge chip unless you read out the

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## **SFP/QSFP EEPROM Recovery: Fix Bricked Optics via I2C**

EEPROM corruption in SFP modules occurs when the non-volatile memory storing MSA-compliant vendor data becomes desynchronized or physically altered. This failure prevents the host

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## **EEPROM**

EEPROM or E2PROM (electrically erasable programmable read-only memory) is a type of non-volatile memory. It is used in computers, usually integrated in

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## **EEPROM Programmer for Optical Module Products , AscentOptics**

We offer high-quality and easy-to-use EEPROM programmer for optical module products, use it at product to display the details of the EEPROM - AscentOptics.

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## **EPROM Selection Guide: Types, Features, Applications**



EPROM chips are designed with an optical window that allows ultraviolet (UV) light to penetrate the chip. This window provides a path for the UV

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## **Transceiver EEPROM programmer**

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,

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## **Application Note 1300**

Additional EEPROM reader freeware software (customized for use with the Avago Technologies SFP w/DMI modules) for use in conjunction with the iPort serial interface adapter, can be made available

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## Extracting Firmware from EEPROM, Flash and eMMC

We've previously covered some of the best tools for reversing firmware that you should be using, but before we even get to have some

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## Advice on repairing a corrupted EEPROM chip to a network card?

Then you need to load the data into either a new EEPROM (compatible ones seem to be readily available, so no problem there) or into the corrupted one. Could be a fun experiment, but I wouldn't

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## GitHub

Some NIC's and switches are locked to using a particular vendors own SFP modules, this



hardware and software project provides a tool for reading and

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## **Writing protected SFP / QSFP / XFP and searching password (brute force**

Optical transceivers (SFP/SFP+, QSFP/QSFP+, XFP) may be write protected or unprotected. Most OEM transceivers are not protected so it can be easily modified and programmed.

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## **Intel x520 EEPROM Patcher allows to unlock the x520 network card to**

Intel x520 EEPROM Patcher allows to unlock the x520 network card to work with non-intel branded SFP modules.

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## **Flash memory or EEPROM corruption**

If an application is required to read, write or erase either program Flash or data EEPROM directly after start-up, it is recommended that the Power on Reset (POR) be enabled. Writing, reading or erasing

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## **SFP/QSFP EEPROM Recovery: Fix Bricked Optics via I2C**

To recover a bricked SFP or high-speed QSFP-DD optic, you must bypass the switch's OS and rewrite the corrupted EEPROM data directly via the I2C bus. Follow these precise steps to

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## **A guide to EEPROM , Arduino Documentation**



Learn how to use EEPROM, short for electrically erasable programmable read-only memory, on Arduino boards.

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## Slide 1

What is the Open Optical Monitoring (OOM) decode library? OOM is a Python package, providing a standard API to read/write optical transceiver modules. o EEPROM data encoded/decoded in

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## DS4231 eeprom hack II

Here is the code (written by me, with inspiration from many others): //Use this to dump the contents of an EEPROM to the serial console. Note that

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## GitHub

Driver, include file and brief documentation are in the 'optoe' directory. OOM has been updated to locate eeprom files and port names created by optoe.

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## 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.

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## EPROM Explained: How It Works & Applications

EPROM, the abbreviation of "Erasable Programmable Read-Only Memory", is a non-volatile storage chip that retains data even after power failure.



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## **Design and Implementation of the Simulated EEPROM for the SFP56 Optical**

Aiming at the difference between EEPROM and FLASH, a RAM + FLASH method is proposed to implement the simulated EEPROM. The results show that the simulated EEPROM can meet the

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## **Design and Implementation of the Simulated EEPROM for the SFP56**

There is usually no EEPROM in MCU, and EEPROM inside the SFP56 optical module is usually implemented by MCU and EEPROM chip, which not only increases the cost but also occupies the

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## **EEPROM in Optical Transceivers: Enabling**

Optical transceivers, such as SFP, SFP+, and QSFP modules, are critical components in modern data centers and telecom networks. Inside each

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## **How to Unlock, Clone or VIN edit a used or salvage vehicle module.**



We also show how to edit only the VIN in a module leaving the remaining eeprom data undisturbed. Once complete the module is reassembled and ready to be installed in the vehicle.

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