

Reading information from the lc optical port module



Overview

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications.

Key Takeaways

You can read LC optical module information using system or switch commands to retrieve transceiver type, connector type, wavelength, transfer distance, vendor, and diagnostic data.

Using Linux Commands

If the LC optical module is installed on a network card in a Linux system, you can use the `ethtool` command to check its status and basic information:

- Identify the network interface name using `ip addr` or `ifconfig`. Typical names are `eth0` or `p4p1` (slot-based).
- Run the command:

`ethtool` This will display interface rate, link status, duplex, speed, and transceiver type. Ensure the link is detected (Link detected: yes) for normal operation .

Using Huawei Switch Commands

For Huawei switches, you can query optical module information with the following commands:

- To view all optical ports:

display transceiver

- To view a specific port:

display transceiver interface interface-type interface-number

- To include detailed receive and transmit power information, add the verbose parameter:

display transceiver interface interface-type interface-number verbose

The output typically includes:

- Transceiver Type (e.g., 1000_BASE_LX_SFP)
- Connector Type (LC)
- Wavelength (nm)
- Transfer Distance (m)
- Digital Diagnostic Monitoring (YES/NO)
- Vendor Name and Part Number
- Manufacturing Serial Number and Date
- Transmit (TX) and Receive (RX) Power with thresholds .

Understanding LC Optical Modules

LC (Lucent Connector) is a compact fiber optic connector widely used in modern networking due to its small 1.25 mm ferrule, push-pull latch, and high port density. LC connectors are compatible with SFP, SFP+, and QSFP modules, making them standard in switches, routers, and WDM hardware .

Summary

To read LC optical module information:

- Use ethtool on Linux for network card modules.
- Use display transceiver commands on Huawei switches for detailed module and diagnostic data.
- Interpret the output to verify module type, connector, wavelength, distance, vendor, and operational parameters. This ensures proper installation, monitoring, and troubleshooting of optical links.

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