

## 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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