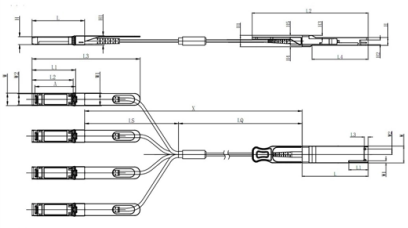
Viewing optical port and optical module information in Linux



Unit mm

QSFP28	L	L1	L2	L3	L4	W	W1	W2	H	H1	H2	H3	H4	H5	H6
Max	72.2	-	128	4.35	61.4	18.45	-	6.2	8.6	12.4	5.35	2.5	1.6	2.0	-
Type	72.0	-	-	4.20	61.2	18.35	-	-	8.5	12.2	5.2	2.3	1.5	1.8	6.55
Min	68.8	16.5	124	4.05	61.0	18.25	2.2	5.8	8.4	12.0	5.05	2.1	1.3	1.6	-

SFP28	L	L1	L2	L3	W	W1	W2	H	H1	A
Max	57.6	47.7	44.55	119.9	13.8	14.0	12.3	8.7	10.3	45.25
Type	57.4	47.5	44.35	117.9	13.55	13.8	12.1	8.5	10.1	45
Min	57.2	47.3	44.15	115.9	13.3	13.6	11.9	8.4	9.9	44.65

Article Overview

You can view optical module information on Linux using the ethtool command to check port status, transceiver type, and diagnostic data.

Checking Network Port Status

To see the link status and configuration of a network interface:

ethtool
• is the network interface name (e.g., eth0, swp1, p4p1).
• This command displays link speed, duplex mode, port type (FIBRE), auto-negotiation status, and whether the link is detected .
• You can list all interfaces using ip link or ifconfig. Example output snippet:

Speed: 10000Mb/sDuplex: FullPort: FIBRELink detected: yesAuto-negotiation: on

Viewing Transceiver Identification and Diagnostics

To query the optical module (SFP/QSFP) for detailed information:

ethtool -m
• This command retrieves module type, vendor, serial number, wavelength, and Digital Diagnostic Monitoring (DDM) data such as Tx/Rx optical power, temperature, and voltage ....

Article Content

Viewing the optical module on Linux

This guide introduces how to read optical module information when it is installed on a network card in a Linux system. It takes the

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

Monitoring Interfaces and Transceivers with ethtool | Cumulus Linux 5.9

You can view this information when you run cl-netstat, ifconfig, or cat /proc/net/dev. You can also run sudo cl-netstat -c to save or

RHEL 6 ethtool does not show SFP laser optical diagnostics

Our Juniper switch shows SFP laser diagnostics like: > show interfaces diagnostics optics ge-7/3/0 Physical interface: ge-7/3/0 Laser

Monitoring Interfaces and Transceivers Using ethtool

Monitor Switch Port SFP/QSFP Hardware Information Using ethtool To see hardware capabilities and measurement information on

Viewing optical modules in Linux

Learn everything about monitoring & troubleshooting Optical Modules, what metrics are important to monitor and why, and how to

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

Obtainining info on the optical drive in a CentOS Linux system

I can see from the value of "1" for "DVD-R" that the device can write to DVD-R discs. If you have the cd-drive tool on

Viewing optical modules in Linux

For optical modules used on switches, we read their information via brand- specific terminal commands. This example uses the

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