

How to read the optical module label



Summary of Content

Optical module labels provide key information about type, speed, wavelength, distance, and vendor, which can be decoded using naming conventions and EEPROM data.

Understanding the Label

Optical module labels, such as GLC-SX-MMD, SFP-10G-LR, or QSFP-40G-SR4, follow a structured naming convention that conveys essential details:

- **Module Type:** Indicates the form factor (SFP, SFP+, QSFP, QSFP28) and sometimes the speed (e.g., 1G, 10G, 25G, 40G).
- **Transmission Distance:** Often included in the code (e.g., SX for short-range, LR for long-range, ZX for extended range).
- **Wavelength:** Some codes specify the operating wavelength in nanometers (e.g., 850 nm for SX, 1310 nm for LR).
- **Connector Type:** Certain letters indicate the type of fiber connector supported.
- **Vendor and Part Number:** The label includes a vendor-specific code and part number for identification and compatibility checks .

Reading EEPROM Data

Every optical module contains a small EEPROM chip storing two main types of information:

- **Serial-ID Block (Base EEPROM at address 0xA0):**
- **Vendor name and OUI (Organizationally Unique Identifier)**

Article Content

What Information Is Provided on the Label Attached on an Optical Module ...

What Type of Cable Can a 40GE Optical Port Use? Can 40G-SR and 40G-iSR Optical Modules Communicate with

Teach you to read the DDM information of the optical module on the ...

Today, ETU-LINK will introduce how to query the information of optical module on Huawei switch. Next, we will

Optical Drawings: Understanding Technical Specifications

This article provides a comprehensive guide on how to read and interpret optical drawings, explaining the various

Internal Structure of Optical Modules

Optical modules are key components in fiber optic communication systems, responsible for electro-optical conversion,

Cisco Command to Check SFP Module Details

For network engineers, knowing how to view and interpret SFP information from the Cisco command-line interface

How To View Port Status And Optical Module Information On Cisco ...

Optical modules work on the switch usually need to read the internal information of the module to understand its

Everything You Need to Know About Optical Modules

Optical modules are electronic devices used in communication systems to transmit optical signals. These modules

The Most Comprehensive Guide Of Optical Modules

Explore the ultimate guide to optical modules. Learn types, functions, performance metrics & how to choose the right

What Is an Optical Module and Its FAQs (V300)

Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a

Displaying Optical Module Information

Displaying Optical Module Information Context When the optical module on an interface is faulty, you can run the display commands

What Is an Optical Module

On an optical network, a sender needs to convert electrical signals into optical signals before sending them to a receiver, and the

How to Decode SFP Module Codes Like a Pro

Whether you're just starting out in networking or have spent years racking up fiber connections, you've probably come

Displaying Optical Module Information

You can use the display commands to view information about the optical module on an interface, including conventional information,

How to Decode SFP Module Codes Like a Pro

Once you know how to read them, you can tell exactly what kind of module you're dealing with—and where it fits in

Fundamentals of an Optical Module

Fundamentals of an Optical Module As an important part of fiber-optic communication, an optical module is a photoelectric converter

Understanding Optical Modules: Types and Troubleshooting Guide

Optical modules come in various types, and their external structures are not exactly the same. However, their basic compositional

What are the Internal Components of an Optical Module?

The function of the optical module is to carry out the photoelectric and electro-optic

Checking the Optical Module Type

The optical module register is set incorrectly. Consequently, parameters and diagnostic information cannot be read or incorrectly

Optical module design resources | TI

View the TI Optical module block diagram, product recommendations, reference designs and start designing.

Displaying Optical Module Information

Run the display transceiver diagnosis interface [interface-type interface-number] command to view diagnostic information about a

How To Read Optical Module Information On Brocade Fibre Channel ...

Reading module information also helps verify encoding compatibility between the optical module and the switch. This

What is Optical Module? A Simple Guide for Beginners

What Exactly Is an Optical Module? An optical module is a compact networking component that converts electrical

How Can I Determine Whether an Optical Module Is Officially

You can check whether an optical module is officially delivered by Huawei using one of the following methods: Use

Optical Module Pull Tab Colors: The Ultimate Guide to SFP, QSFP,

Optical Module Pull Tab Colors: Complete Guide to SFP, QSFP, and CWDM Coding Description: Decode optical

800G Client Optics in the Data Center

When hyperscale data center operators start deploying a new generation of client optics, they immediately require massive volumes

How To View Optical Transceiver Information On Huawei Switches

Optical modules are commonly used in switches, network cards, routers and other communications equipment, in the

X-linkit Optical Module Tagging System: A Complete Guide to Full ...

Dual-Label Design (Module): The front label shows model and core speed for quick specification checks. The side

How to Choose Optical Modules Correctly?

How Optical Modules Operate Transmitter Optical Sub Assembly (TOSA) The TOSA manages light emission,

Contact Us

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