

Identifying Huawei Optical Modules



AI Overview

Huawei optical modules can be identified by checking certification, module type, interface information, and operational parameters using Huawei switch commands and visual inspection. Huawei-Certified Module Verification Huawei-certified optical modules are tested for quality, compatibility, and performance. They undergo checks for installation/removal, transmit/receive power, signal quality, fault tolerance, EMC, and environmental performance. Using non-certified modules can cause installation failures, interface conflicts, data bus errors, or damage to electronic components. To determine certification, you can visually inspect the module for Huawei branding or use switch commands to verify its status.

Reading Module Information on Huawei Switches

To check module details on Huawei switches, use the following commands:

Display interface information: `display interface` shows interface rate, module type, link status, and traffic statistics.

Display transceiver information: `display transceiver [ interface interface-type interface-number | slot slot-id ] [ verbose ]` provides detailed module data including optical power, wavelength, transmission distance, temperature, voltage, and current.

Interface overview: `display interface brief` lists all interfaces and their numbers for easier identification.

Common Huawei Optical Module Types

Huawei manufactures a range of optical modules for different speeds and applications:

- Gigabit SFP Optical Module
- 10 Gigabit SFP+ Optical Module
- 40G QSFP+ Optical Module
- 100G SFP Optical Module
- 100G QSFP28 Optical Module

QSFP DD modules typically consume 12–14 watts, but exact specifications should be checked in the datasheet.

Key Operational Parameters

When identifying and evaluating modules, consider:

- Transmit power:** Average optical power output, measured in W, mW, or dBm.
- Extinction ratio:** Ratio of optical power for signal 1 versus signal 0, indicating laser efficiency; typical minimum is 8.2–10 dB.
- Wavelength and transmission distance:** Critical for matching fiber type and network design.
- Tem...**

Article Content

Huawei Optical Module Common Models

Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei Technologies Co. and originated in Shenzhen.

How to Identify Huawei-Certified Optical Modules

Huawei routers must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission reliability and may affect service stability. Huawei is not responsible for any

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 process of using the optical module information can be read to

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 introduce the query instructions of relevant parameters of optical

How to Identify Huawei-Certified Switch Optical Modules

A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical or copper modules cannot ensure transmission reliability and may

What Is an Optical Module and Its FAQs (V200)

What Is an Optical Module and Its FAQs (V200) Describes what an optical module is and FAQs, including the fundamentals, appearance and structure, key performance counters, common types,

WHAT IS AN OPTICAL MODULE AND ITS FAQS (V200)

As an important part of fiber-optic communication, an optical module is a photoelectric converter which converts electrical signals into optical signals and vice versa. An optical module works at the physical

Introduction of Optical Modules on Huawei Switches

You may learn how to classify and check the optical modules from this article, thunder-link sales team will assist you for further questions about optical

Huawei Optical Switch View Optical Module Commands

Taking the Huawei 5700 series switches as an example, the commands to view optical module information are as follows: ... View the general, manufacturing, alarm, and diagnostic

The Ultimate Guide to SFP Modules (2026): Types,

Confused by SFP vs SFP+? Read the definitive 2026 guide on SFP modules. We explain Single Mode vs Multimode, DDM diagnostics, and how to choose the

01-10 OPTICAL MODULES

Optical modules are available in various types to meet diversified requirements. Depending on transmission rates, optical modules are classified into 100GE, 40GE, 25GE, 10GE, FE, and GE

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How to Identify Huawei-Certified Optical Modules

How to Identify Huawei-Certified Optical Modules Huawei routers must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission reliability and may affect

Understanding Optical Modules

Appearance and Structure of an Optical Module Types of Optical Modules Optical Module Terms Rules for Optical Module Interoperation Understanding Copper Modules Understanding Hybrid Modules

How To View Optical Transceiver Information On Huawei Switches

1. Transceiver identity information: model, wavelength, transmission distance, SN, manufacturer data stored in module EEPROM. 2. Real-time DDM values and alarm thresholds.

Understanding High-Speed Transceiver Tests | 100G & 400G Optical ...

In this article, we'll explain why high-speed optical transceiver testing matters, which tests are most important, and how to choose modules that deliver long-term stable performance.

HUAWEI S Series Switch-Identify a Huawei-Certified

HUAWEI S Series Switch-Identify a Huawei-Certified Optical Module Huawei Documentation Insights 31.9K subscribers 1

Optical Modules for Huawei S Series Switches

A switch must use optical or copper modules that have been certified for use on Huawei switches. Non-certified optical or copper modules cannot ensure transmission reliability and may affect service

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