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Identifying Huawei Original Optical Modules



Overview

How to Identify Huawei-Certified Switch Optical ModulesTo determine whether optical modules delivered for Huawei S switches before July 1, 2013 are certifi.

Key Takeaways

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 .

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• 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 .

• Temperature, voltage, and current: Ensure module operates within safe limits .

Practical Tips

• Always use certified modules to avoid network instability or hardware damage.

• Verify module type and interface compatibility before installation.

• Use switch commands to monitor real-time status and troubleshoot link issues.

• Consult datasheets for exact specifications, especially for high-speed modules like QSFP28 or QSFP DD. By combining visual inspection, certification verification, and switch-based commands, you can accurately identify Huawei optical modules and ensure reliable network performance.

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Article Content

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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

Optical Modules in General-Purpose Computing Scenarios

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huawei optical module | huawei networking products

Huawei switches must use Huawei-certified optical modules. Non-Huawei-certified optical modules cannot ensure transmission

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HUAWEI S Series Switch-Identify a Huawei-Certified Optical Module video demonstrates how to identify a Huawei

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Huawei Optical Module Common Models

Optical modules are important devices in fiber optic communication systems. Huawei Optical Module is manufactured by Huawei

How To View Optical Transceiver Information On Huawei Switches

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Optical transceivers are widely applied in switches, network cards, routers and other communication devices.

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