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Huawei optical module luminous value



Overview

What Is an Optical Module and Its FAQs (V200) If the value of Vendor Name is HUAWEI, the optical module has been certified for Huawei data center switches.

Key Takeaways

Huawei optical modules' luminous value refers to the transmit (TX) and receive (RX) optical power, typically measured in dBm, which can be monitored via DDM commands on Huawei switches.Understanding Luminous Value

The luminous value of an optical module represents its optical power output (TX Power) and received optical power (RX Power). These values are critical for ensuring proper signal transmission and link quality. Huawei optical modules support Digital Diagnostic Monitoring (DDM), which allows real-time monitoring of:

• TX Power (dBm): The optical power emitted by the module.

• RX Power (dBm): The optical power received from the remote module.

• High/Low Thresholds: Maximum and minimum safe operating power levels.

• Bias Current (mA): Current driving the laser diode.

• Voltage (V) and Temperature (°C): Operational parameters affecting optical performance ( ). For example, a typical SFP module output might show:

• TX Power: -5.03 dBm

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• TX High Threshold: -2.22 dBm

• TX Low Threshold: -6.99 dBm

• RX Power: -40.00 dBm

• RX High Threshold: 0.00 dBm

• RX Low Threshold: -16.99 dBm ( ).
How to View Luminous Values on Huawei Switches

Huawei switches provide commands to query optical module information:

• Basic module information:

display transceiver [interface interface-type interface-number | slot slot-id] [verbose] This command shows module type, wavelength, TX/RX power, and other DDM parameters ( ).

• Diagnostic information:

display transceiver diagnosis interface [interface-type interface-number] This command provides detailed DDM readings, including real-time TX/RX power, voltage, temperature, and bias current ( ).

• Interface status check:

display interface Confirms link status (UP/DOWN) and traffic statistics, which helps correlate optical power with link performance ( ).
Typical Ranges and Considerations
• TX Power: Usually between -6 dBm and 0 dBm for standard SFP modules.

• RX Power: Depends on distance and fiber type; must stay within module's RX threshold to avoid link errors.

• Deviation from thresholds: If TX or RX power exceeds high/low thresholds, the module may fail to maintain a stable link.

• Non-Huawei-certified modules: May have nonstandard power levels or DDM readings, potentially causing interface errors ( ). Monitoring luminous values ensures optimal optical link performance, early detection of fiber degradation, and proper troubleshooting of network issues.

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The possible reason is that the distance between the two devices is short but a long-distance optical module is used. In this case,

Huawei GPON Optical Module

We found that there would be fault PON modules, so we test each board and each PON module optical power, and

OSX010000, Huawei SFP+ Optical Transceiver, 10G SFP+, 1310nm,

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Understanding Optical Modules

This document explains optical modules, their types, and applications, providing a comprehensive understanding of their functionality

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

Huawei Optical Module Common Models

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

Checking the Optical Module Type

The selected optical modules must be supported by the optical interfaces. Check whether the optical module used on the switch is

How to view the optical module DDM information on Huawei and H3C ...

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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.

How to View Optical Module Parameters

If you know the model or type of an optical module, you can view the section "Pluggable Modules for Interfaces" in the Hardware

Displaying Optical Module Information

When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical module

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Looking ahead, Huawei aims to collaborate with industry partners to further research and innovate in data center

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Understanding Pluggable Optical Modules

Optical modules are available in various types to meet diversified requirements. Classified by transmission rate Currently, the

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Huawei Enterprise Support Community

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What Are the Common Types of Optical Modules?

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The transmit power of a long-distance optical module is often larger than its overload power. Therefore, when using such optical

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How Do I View the Transmit and Receive Power of an Optical Module ...

How Do I View the Transmit and Receive Power of an Optical Module? Run the display transceiver verbose command. In the

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Huawei Unveils StarryLink Optical Modules That ...

At MWC Barcelona 2025, Huawei introduced the StarryLink optical modules, aimed at creating a network experience

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