

Check the optical power of Huawei switch ports



Overview

Displaying Optical Module Information To determine whether optical modules delivered for Huawei switches before January 1, 2016 are certified ones, contact.

Key Takeaways

You can check the optical power of Huawei switch ports using the display transceiver or display interface transceiver verbose commands, which show both TX and RX power along with diagnostic thresholds. Commands to View Optical Power

- For most Huawei switches (S, CloudEngine, and NE series):
- Run the command: `display interface [interface-type interface-number | slot slot-id] transceiver verbose` This displays detailed information about the optical module, including current RX power, current TX power, and their respective high/low thresholds .
- Alternative command for S series switches:
- `display transceiver [interface interface-type interface-number | slot slot-id] verbose` This provides digital diagnostic monitoring (DDM) data, including temperature, voltage, bias current, and optical power .

Key Optical Power Parameters

- Current RX Power (dBm): The received optical power at the port.
- Current TX Power (dBm): The transmitted optical power from the port.

- High/Low Thresholds: Upper and lower limits for RX and TX power. Exceeding these thresholds may indicate a faulty module or poor fiber connection .
- Bias Current (mA): Indicates the current driving the laser in the transceiver.
- Voltage (V) and Temperature (°C): Useful for monitoring module health.

Example Output

Current RX Power (dBm) : 0.50Default RX Power High Threshold (dBm) : 3.01Default RX Power Low Threshold (dBm) :-15.02Current TX Power (dBm) :-2.38Default TX Power High Threshold (dBm) :3.01Default TX Power Low Threshold (dBm) :-9.00

This output shows the real-time optical power and the acceptable range. If RX or TX power is outside the thresholds, the optical link may experience errors or fail .

Troubleshooting Tips

- Ensure the fiber connectors are clean and properly seated.
- Verify that both ends of the link use the same wavelength.
- Replace the optical module if the power readings are consistently out of range.
- Use Huawei-certified optical modules to avoid compatibility and performance issues . By using these commands and monitoring the optical power values, you can effectively assess the health of Huawei switch ports and troubleshoot optical link issues.

Article Content

Displaying Optical Module Information

To determine whether optical modules delivered for Huawei switches before January 1, 2016 are certified ones, contact Huawei

How Do I Check the Transmit and Receive Optical Power of an

Run the display interface transceiver verbose command to check the transmit and receive optical power of an optical module. In the

Checking TX / RX optical power for Huawei Switches and Routers

Here is an example on how to query or display optical power of an interface in a Huawei Router. This is tested using NetEngine40E

Checking the Optical Module Type

Check whether the optical module used on the switch is certified by Huawei switches. For the Huawei-certified optical modules,

Checking the Receive and Transmit Optical Power

Run the display interface interface-type interface-number transceiver verbose command to check whether the receive optical power

Troubleshooting Interface Down Problems

Check whether the receive optical power and transmit optical power are normal. Run the display interface interface-type interface

Typical Troubleshooting Cases of Optical Module

Use an optical power meter to measure the receive power of the port. Form a loop on the port using an optical fiber, and check

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

Checking the Receive and Transmit Optical Power

Check whether the distance between the two devices exceeds the maximum transmission distance of the remote optical module. If

Checking the Optical Module

Change the optical module or fiber of the peer and test the receive optical power again. Check whether the transmission distance

Introduction of Optical Modules on Huawei Switches

Check Optical Module Parameters: If an optical module is installed in a running switch, you can run the display transceiver command

Checking Whether the Rx and Tx Optical Power of the Interfaces at

If only the number of B3 bit errors increases, check whether the link directly connecting the remote router and SDH transmission

Checking the Interface Status and Configuration Parameters

If a message is displayed, indicating that the optical module is not in position, remove and then properly insert the optical module. If

Checking that the Optical Power Is Within the Normal Range

In the preceding command output, the information in bold shows the optical power of the optical module. If the value of Rx Optical

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