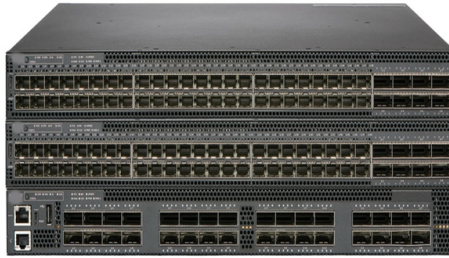


Checking the optical attenuation of Huawei switch ports



AI Overview

You can check optical attenuation on Huawei switch ports by using the display transceiver and display transceiver diagnosis commands to view TX/RX power and digital diagnostic monitoring information. Viewing Optical Module Information To check optical attenuation, you first need to access the optical module details: All ports: Use display transceiver to list all optical modules and their basic information, including type, wavelength, and vendor details . Specific port: Use display transceiver interface to view information for a particular port . Detailed diagnostics: Add the verbose parameter to see TX (transmit) and RX (receive) optical power, voltage, bias current, and temperature . Example command: `CodeCopydisplay transceiver interface GigabitEthernet1/0/1 verbose` This will show the digital diagnostic monitoring (DDM) data, which includes the current optical power levels. Optical attenuation can be inferred by comparing the TX power of the sending port and the RX power of the receiving port. Using Diagnostic Commands Huawei switches also provide a dedicated diagnostic command: `CodeCopydisplay transceiver diagnosis interface` This command displays real-time optical power, signal quality, and potential faults for the module, helping you identify if attenuation is within acceptable limits . Interpreting Optical Power Typical TX/RX ranges: For SFP modules, TX power usually ranges from -5 dBm to 0 dBm, and RX sensitivity ranges from -20 dBm to -3 dBm depending on the module type . High attenuation: If RX power is significantly lower than expected, it indicates excessive attenuation, possibly due to fiber length, connectors, or patch panels. Low attenuation or high RX power: May indicate a short link or incorrect module type. Additional Tips Ensure you are using Huawei-certified optical modules, as non-certified modules may provide inaccurate readings or cause interface issues . U...

Article Content

Huawei Virtual Cable Test Command | PDF

The document discusses a "virtual-cable-test" command available on some Huawei switches that can check the status and length of physical Ethernet cables

Checking the optical attenuation of Huawei switches

Checking the optical attenuation of Huawei switches Run the display transceiver [interface interface-type interface-number | slot slot-id], to view the information on the optical module interface. During use,

Huawei Switches Viewing Optical Port Receiving and Sending

Use the command display transceiver to view the optical module information of all optical ports, and use the command display transceiver interface interface-type interface-number to view the

What are the common check commands for Huawei

What are the commonly used inspection commands for Huawei switches? Many data in Huawei switches need to be queried using commands,

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 and transmit optical power are normal.

How Do I Check the Interface or Port Status?

Checking Service Interface Indicators to Determine the Interface Status Observe service interface indicators to quickly identify the service interface status. The following uses the S6730-H48X6C as

Troubleshooting Interface Down Problems

View the Alarm information field to check whether the optical module is a non-Huawei-certified optical module. If the alarm message "Non-Huawei-Certified Transceiver" or "Non-Huawei-Ethernet-Switch

Displaying Optical Module Information

The optical attenuation information cannot be viewed directly. You need to view the current optical power in optical module information to determine whether the optical power is attenuated.

Troubleshooting S Series Switch Port and Interface Problems

Troubleshooting S Series Switch Port and Interface Problems This document describes how to check the switch interface or port status and how to locate an interface physically down fault and restore the

How To Check If Interconnected Optical Ports Cannot

1. **Checking the Optical Module Type** Log in to the switch through Telnet or console port to check the switch model. Run the display device command to check the

Checking optical attenuation at ports on a Cisco switch

Overview In the Privileged EXEC mode of the switch, use the show fiber-ports-optical-transceiver command by entering the following: interface interface-id - (Optional) Specify an Ethernet port ID.

How To Check If Interconnected Optical Ports Cannot Go Up?

If the problem is not caused by the optical modules, fibers, or intermediate device, connect the switch to another interface or replace the switch to check whether the problem ...

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

Checking the optical attenuation of Huawei switches

Run the display transceiver [interface interface-type interface-number | slot slot-id], to view the information on the optical module interface. During use, reading optical module information helps

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 Universal Service Router or NE40E running version 8.x OS.

Checking optical attenuation configuration on Huawei switches

The following uses the Moduletek SFP-10G-LR module connected to a Huawei S6700 switch as an example to introduce how to read information of the connected optical module on a Huawei switch.

Optical Module Solutions for Huawei S5700/S5720 Series Switches

When using switches, we may encounter many confusions, such as what types of optical modules are needed for different models of Huawei switches, and how to resolve issues encountered

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

Displaying Optical Module Information

What Is the Impact of Using Non-Huawei-Certified Switch Optical Modules? When certifying an optical module, Huawei comprehensively verifies the functions of the optical module to ensure the optical

How To View Optical Transceiver Information On Huawei Switches

Optical transceivers are widely applied in switches, network cards, routers and other communication devices. Checking transceiver parameters allows users to monitor real-time

Troubleshooting S Series Switch Port and Interface Problems

If the receive power of an optical module is too low or too high, use an optical power meter to test the optical power attenuation of each part of the link and repair abnormal parts.

Huawei OLT | WDM | Switch | Router, Global Premium Provider

Overview & Thematic Scope This FAQ addresses the critical role of Digital Optical Monitoring (DOM) and Digital Diagnostics Monitoring Interface (DDMI) in modern SFP transceivers. As a network engineer,

Huawei Switch Optical Attenuation Information

When using switches, we may encounter many confusions, such as what types of optical modules are needed for different models of Huawei switches, and how to resolve issues encountered

Checking Optical Attenuation on Huijue Optical Switches

Attenuation in optical transceivers weakens signals. Manage loss by checking cables, cleaning connectors, and using proper fiber tools. Possible causes include: The connector attenuation of the

Displaying Optical Module Information

To determine whether optical modules delivered for Huawei switches before January 1, 2016 are certified ones, contact Huawei technical support. If your optical modules are delivered after January

Contact Us

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