Huijue switch optical attenuation checked



Overview

How To Use The Optical Port On A Huijue SwitchVerify switch port configuration If optical attenuation is normal but the link still fails, check the switch.

Key Takeaways

Huawei switches can monitor optical attenuation through the digital diagnostic monitoring (DDM) features of certified optical modules, allowing you to check both transmit and receive power levels to assess signal loss.Viewing Optical Attenuation

Huawei switches support optical attenuation monitoring via the DDM function of SFP or other optical modules. You can use the following commands:

• display transceiver interface verbose This command shows detailed information about the optical module, including Current RX Power (dBm) and Current TX Power (dBm), which can be used to calculate optical attenuation by comparing transmitted and received power levels .

• display transceiver diagnosis interface This command provides diagnostic information, including optical power thresholds and real-time monitoring data, which helps identify if the optical link is experiencing excessive loss .
Interpreting the Data
• Transmit Power (TX): The optical power sent from the switch.

• Receive Power (RX): The optical power received at the other end.

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• Optical Attenuation: Calculated as the difference between TX and RX power, indicating the signal loss over the fiber link. Typical single-mode fiber links may have attenuation ranging from 0.2 dB/km to 0.5 dB/km depending on fiber type and distance. Huawei-certified modules also provide high and low threshold alarms for both TX and RX power, allowing the switch to alert you if the optical attenuation exceeds safe limits .
Best Practices
• Always use Huawei-certified optical modules to ensure accurate DDM readings and reliable monitoring .

• Ensure the interface is UP before checking optical power, as inactive ports may not report accurate values .

• For troubleshooting, compare the measured RX power against expected values for the fiber length and type to determine if additional attenuation (e.g., from connectors or splices) is present. By using these commands and interpreting the TX/RX power data, you can effectively monitor optical attenuation on Huawei switches and maintain optimal fiber link performance.

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Typical Troubleshooting Cases of Optical Module

Possible causes include: The connector attenuation of the optical fiber exceeds the attenuation threshold, or the optical fiber is bent

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Evaluating Attenuation When OTDR Testing: User Guide

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