Huijue switch optical port suffers severe packet loss



Overview

How to use the optical port on a Huijue switchWhen the transmit/receive power of the optical ports is too high, optical modules on the ports may be damaged.

Key Takeaways

Severe packet loss on a Huawei switch optical port is often caused by optical module issues, fiber link problems, or misconfigurations, and can be diagnosed by checking optical power, module compatibility, and port status.

Common Causes

Optical Power Issues If the receive optical power is too low, packet loss can occur even when the transmit power is normal. This may result from high insertion loss at connectors, excessive fiber bending, or a faulty fiber link. Persistent issues may indicate a defective optical module.

Module and Fiber Mismatch Using incompatible optical modules or mixing single-mode and multi-mode fibers can cause severe packet loss. Ensure the module type matches the fiber type and the interface speed (e.g., do not use a 10G module on a 1G port),. Port Configuration and Status Ports that are administratively down or misconfigured can drop packets.

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Use commands like display interface xgigabitethernet0/0/2 and display transceiver interface xgigabitethernet0/0/2 verbose to check port status, optical power, and module health. Physical Layer Problems Damaged or poorly seated cables, excessive bending, or faulty AOC cables can lead to intermittent connectivity and high CRC error counts, resulting in packet loss.

Switch Congestion or CP

U Overload High traffic, buffer overflows, or excessive control plane traffic can also cause packet drops.

Inspect CP

U usage and QoS policies to ensure the switch is not overwhelmed.

Diagnostic Steps

Check Optical Power Verify both transmit and receive optical power are within normal ranges. Low receive power indicates fiber or module issues. Perform a Loopback Test Connect the fiber jumper to the same optical module to see if the port operates normally.

This helps isolate whether the problem is with the module or the fiber. Inspect Port and Module Logs Review system logs for errors such as "SFP validation failed" or high CRC error counts.

Use DD

M data to check temperature, voltage, and bias current. Verify Configuration Ensure speed, duplex, and VLAN settings match on both ends of the link. Misconfigurations can lead to packet loss.

Replace Suspected Faulty Components If diagnostics indicate a defective module or cable, replace it and retest the link.

Recommendations

Use compatible optical modules and fiber types. Avoid excessive bending or stress on fiber cables. Monitor port statistics regularly to detect early signs of packet loss.

Consider upgrading firmware if known bugs affect optical port performance. If packet loss persists after all checks, escalate to Huawei support for further hardware diagnostics. By systematically checking the optical power, module compatibility, port configuration, and physical layer integrity, most severe packet loss issues on Huawei switch optical ports can be identified and resolved.

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Article Content

How to use the optical port on a Huijue switch

When the transmit/receive power of the optical ports is too high, optical modules on the ports may be damaged. In this case, connect an attenuator to the optical modules.

What s wrong with the optical port on the Huijue switch

The first thing you should do is re-plug the optical module into the switch slot and make sure it is firmly inserted. If the problem persists, please check the compatibility of the optical module

NETWORK ENGINEER STUFF: Troubleshooting Packet Drops in a

When packets are getting dropped on a switch, it can result from various issues across different layers. Here''s a structured way to troubleshoot packet drops on a switch:

The Transmit Optical Power of an Optical Module Is Normal, But

If so, this fault is typically caused by high insertion loss of the connector or the bending of the optical fiber. If the fault persists, replace the optical module to check whether the fault is caused by the

How to Fix Packet Loss in 5 Steps & Top 5 Tools

In this post, you''ll learn the ins and outs of high packet loss and how to handle it within your system. I''ve also compiled a list of five of the most effective software programs for eliminating packet

Optical Link Failure Troubleshooting: Switch-to-Switch (SMF/MMF)

Learn how to troubleshoot optical link failures between network switches. Essential guide covers checking optical modules, single-mode (SMF) vs. multimode (MMF) fiber integrity, and

Switch Port Packet Loss Troubleshooting | FS

Summary: Port packet loss is only a possible cause of Layer 2 and Layer 3 forwarding. If you encounter a Layer 2 or Layer 3 forwarding failure, you still need to troubleshoot according to the above possible

Network Switch Troubleshooting Guide: Common Problems and

A comprehensive switch troubleshooting from the physical layer to the data link layer to the network layer to find out why your network switch is not working.

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Why Is My PS5 Lagging? Fix Wi-Fi, Ping and Packet Loss

Validate why your PS5 is lagging online, including Wi-Fi, high ping, packet loss, downloads, NAT and evening broadband congestion.

Solved: Packet loss in switch

If the switch did not go down, that means the interface connecting in the path of Orion has lost connectivity to the switch. You can look at the switch interfaces and see what interface has gone

Network Packet Loss Locating and Handling

Network Packet Loss Locating and Handling When packet loss occurs on a network, determine the location where packets were lost, analyze the cause of the packet loss, and then rectify the fault

How to Fix Packet Loss in 5 Steps & Top 5 Tools

What is packet loss and what causes it? Read this complete guide to troubleshoot network packet loss issues with reviews of software.

Huijue Fiber Optic Switch Packet Loss

If so, this fault is typically caused by high insertion loss of the connector or the bending of the optical fiber. Our room controllers operate on a loop topology just daisy. We have a core switch nexus 9000

How To Fix Packet Loss & Know When It''s a Problem

Understanding how to fix packet loss, as well as recognizing when it becomes a significant problem, is essential for both personal and professional use of the internet. In this

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

Packet Loss On Switch Port OpenWRT

Scenario 1 i have packet loss. Scenario 2 i don''t have any. Seems by adding another device in between before it runs up to my other 1Gbps switch it removes the packet loss. Since

Avoiding Cross-Datacenter Collective Congestion via Disaggregated

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The multi-millisecond congestion control loop is too slow to react, triggering severe packet loss and congestion collapse. We present Spillway, a transparent in-network mechanism that

Optical Switching: Switch Fabrics, Techniques, and Architectures

All-optical switch fabrics play a central role in the effort to migrate the switching functions to the optical layer. Optical packet switching provides an almost arbitrary fine granularity but faces significant

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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