

The switch displays 0 00 light reception

Article Overview

A 0.00 light reception reading usually indicates no optical signal is being received, which can result from a faulty SFP, disconnected or damaged fiber, or misaligned connections.

Common Causes

- o **Disconnected or Damaged Fiber** If the fiber cable is unplugged, broken, or bent beyond its minimum bend radius, the optical signal cannot reach the transceiver, resulting in 0.00 RX power readings .
- o **Faulty or Incompatible SFP Transceiver** The SFP module itself may be defective or incompatible with the switch. Some transceivers have strict vendor-specific thresholds for RX power, and a module outside these limits may report 0.00 even if partially functional .
- o **Incorrect TX/RX Pairing** Optical links require proper pairing: the TX of one module must connect to the RX of the other, and vice versa. Swapping fibers or connecting the wrong ends can cause no reception .
- o **Dirty Connectors or Endfaces** Dust or debris on the fiber connectors can block light transmission. Cleaning the connectors with proper fiber cleaning tools often resolves RX issues .
- o **Switch Port or Configuration Issues** Some switches may disable the port if the SFP is not recognized or if the interface is administratively down. Verifying port status and configuration is essential .

Troubleshooting Steps

- o **Check Physical Connections** Ensure the fiber is properly seated in both SFPs and that the correct TX/RX orientation is used.
- o **Inspect and Clean Fiber Endfaces** Use a fiber inspection scope and cleaning kit to remove dust or contamination.
- o **Test with a Known Good SFP and Fiber** Swap the SFP module and fiber with a working pair to isolate whether the issue is with the transceiver or the cable.
- o **Verify Switch Diagnostics** Use commands like `show interfaces diagnostics optics` (Juniper) or `show interface transceiver details` (Cisco/Dell) to check RX/TX power, alarms, and warnings . A 0.00 RX reading with normal TX from the other side indicates a receiving problem.
- o **Check for Alarms or Errors** Look for high/low alarms or invalid module errors, which may indicate the SFP is not operating properly or is incompatible .
- o **Replace Components if Necessary** If the SFP or fiber is confirmed faulty, replace it. Ensure the replacement meets the required specifications for wavelength, distance, and vendor compatibility.

Summary

A 0.00 light reception reading is typically a physical layer issue. Start by checking fiber connections, cleaning connectors, and verifying SFP compatibility. Use switch diagnostics to confirm RX/TX power levels and alarms. Swapping components with known good ones helps isolate the faulty element, whether it is the fiber, SFP, or switch port .

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I plugged everything in, and the dock light is green when I put my switch in, but nothing goes to the TV. I have tried different TVs and

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