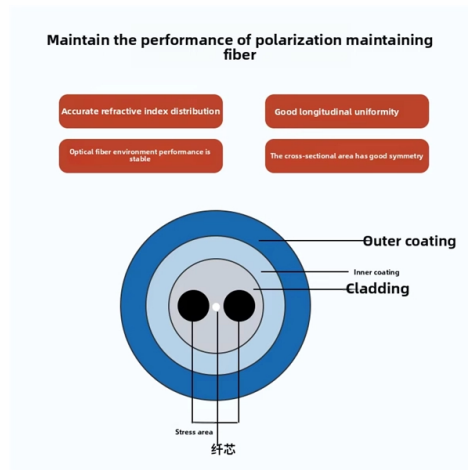


Huawei switch optical port automatically shuts down



Overview

If the transmit power remains low, replace the optical module or install it in another optical port to check whether it is faulty.

Key Takeaways

Huawei switch optical ports may automatically shut down due to hardware faults, configuration mismatches, optical module issues, or Automatic Laser Shutdown (ALS) activation. Common Causes



1. **Hardware and Optical Module Issues** Optical ports can go down if there are hardware failures in the switch, optical modules, fibers, or network cables. Non-Huawei-certified or faulty optical modules can also trigger shutdowns. Using incompatible fiber types (single-mode vs. multi-mode) or mismatched transmission rates can cause the port to enter a shutdown state .

2. **Configuration and Software Problems** Inconsistent configurations between local and remote devices, such as mismatched auto-negotiation, interface speed, or duplex settings, can cause the port to shut down. Ports may also be administratively shut down via commands, which can be verified using `display interface interface-type interface-number` .

3. **Automatic Laser Shutdown (ALS)** ALS is a feature that automatically turns off the laser on an optical port when a fault is detected on the client-side or WDM-side link. The laser is re-enabled once the fault is cleared. This mechanism helps quickly transmit link fault information to client devices and reduces service interruption time .

4. **Network Protocols and Loops** Spanning Tree Protocol (STP), Rapid STP (RSTP), or Unidirectional Link Detection (UDLD) can cause ports to shut down if loops or one-way traffic are detected. Excessive errors or repeated up/down events on the port may also trigger automatic shutdowns .

Troubleshooting Steps

- **Check Port Status:** Use `display interface brief` or `display interface xgigabitethernet0/0/2` to verify if the port is administratively down or physically down .
- **Inspect Optical Modules:** Ensure modules are Huawei-certified, compatible with the fiber type, and within the correct wavelength and power range. Clean optical bores and use dust plugs for idle ports .
- **Loopback Test:** Connect the fiber jumper back to the same optical module to test if the port can go up .
- **Check Configuration:** Verify auto-negotiation, speed, duplex, and STP settings. Adjust configurations to match the remote device .
- **Power Cycle or Reboot:** If the fault persists, restart the switch or power cycle it. Consider upgrading the system software to a recommended version .
- **Monitor ALS Events:** If ALS is enabled, check for client-side or WDM-side faults that may be triggering automatic shutdowns . By systematically checking hardware, configuration, optical modules, and ALS-related events, you can identify the root cause and restore the optical port to normal operation.

Article Content

Why would my switch be shutting down ports automatically?

My thoughts: Someone may have gotten in the way of the optical link while it was running an automated bandwidth

Troubleshooting for Optical Modules on Huawei Switch

If the transmit power remains low, replace the optical module or install it in another optical port to check whether it is faulty. If the

Huawei module automatically shuts down optical port

If an optical module that is not certified for Huawei data center switches is used, replace it with an optical module that is certified for

CX320 Switch Module V100R001 Command Reference 14

Usage Scenario After modifying parameters of an interface, run the shutdown and undo shutdown commands to make the

Recovering an Interface From ERROR DOWN State

Related Information For details about troubleshooting an ethernet interface in physically down state, refer to Huawei S Series

Solved: What would cause all fiber optic ports on a switch to go down ...

I've consistently tested this by connecting another switch on the 3rd port of any of the two stack switches: whenever

Unexpected Reboot of a Fixed Switch

Non-Huawei certified switch optical modules cannot ensure transmission reliability and may affect service stability.

Port: Optical Ports on the AC Cannot Go Up

Use an optical fiber to perform a loopback test on the Huawei device. If the link goes Up, the Huawei device is working properly, and

HP A7500-S switch optical port automatically shutting down

Hello i have one HP A7503 -S (this switch using as my core switch) Switch 24 port full optical port (24 port two module).24 ports are

port is disconnected due to optical module faulty

As per checked the log, it was found that the host port was disconnected, This alarm indicates the port and switch has

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