

Accessing the Huawei switch s optical port



Overview

Installing an Optical Module Remove the dust plug from an optical port. Keep the dust plug for future use. Ensure that the optical module is correctly orie.

Key Takeaways

You can access and monitor Huawei switch optical ports using the display transceiver and display interface commands to view module details, port status, and diagnostic information. Viewing Optical Module Information

To check the optical module on a specific port, use the following commands:

- Display all optical ports: display transceiver This shows information for all optical modules installed on the switch .
- Display a specific optical port: display transceiver interface Replace and with the port type and ID. This provides details such as transceiver type, connector type, wavelength, transfer distance, vendor, and serial number .
- Verbose mode for power and diagnostics: display transceiver interface verbose This command shows receive and transmit power, temperature, voltage, and bias current, which is useful for troubleshooting .

- Digital Diagnostic Monitoring (DDM): display transceiver diagnosis interface Displays real-time diagnostic data for the optical module, helping identify faults or abnormal conditions .

Checking Port Status

- Port link and traffic statistics: display interface Shows port rate, link status (UP indicates normal operation), transceiver type, and traffic statistics such as unicast, multicast, broadcast, errors, and collisions .

- Summary of all ports: display interface brief Provides a quick overview of all ports, including optical interfaces, their status, and link information .

Best Practices and Troubleshooting

- Use Huawei-certified optical modules to avoid compatibility issues, data bus errors, or physical damage to the interface .

- Check module specifications against the port configuration using display interface GigabitEthernet x/x/x for GE ports to ensure rate and wavelength match .

- Measure optical power with an optical power meter if needed, and consider using optical attenuators for long-distance modules .

- Reinstall or replace faulty modules if the port does not come up, and reboot the switch if necessary .

- Exercise caution on live networks, as removing modules or restarting the switch may affect services . By following these commands and best practices, you can effectively access, monitor, and troubleshoot Huawei switch optical ports.

Article Content

Installing an Optical Module

Remove the dust plug from an optical port. Keep the dust plug for future use. Ensure that the optical module is correctly oriented and

Troubleshooting S Series Switch Port and Interface Problems

When connecting two devices, check whether optical modules match optical interfaces, whether optical modules match fiber models,

S210 Series Switches Installing an Optical Module

DANGER Never look directly into an optical module or the ends of optical fibers. Optical modules and connected fibers emit laser

Replacing an Optical Module

Take out the new optical module from the package. Ensure that the optical module is correctly oriented and gently push it into the

Optical Fiber

AOC An active optical cable (AOC) is a fixed-length optical fiber with optical modules at both ends. It can be directly connected to an

Checking the Optical Module Type

The selected optical modules must be supported by the optical interfaces. Check whether the optical module used on the switch is

Installing an Optical Module

A switch must use optical or copper modules that have been certified for use on Huawei S switches. Non-certified optical or copper

Checking the Interface Status and Configuration Parameters

Access the interface view and run the undo shutdown command. If a message is displayed, indicating that the optical module is not

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

Optical Access

Based on PON technology, passive all-optical network access solutions enable access by any media, tailored to enterprises, ISPs,

Optical Terminal

The OptiXstar product series extends optical connectivity to every home, enterprise, and campus, bringing families closer and

Typical Troubleshooting Cases of Optical Module

(For details about the commands for querying port information, see the command reference of a specific switch model.) Use an

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