

Huawei switch network cable access



Overview

If a network cable does not meet the preceding requirements, replace it with a compliant one or reduce the interface speed.

Key Takeaways

To access a Huawei switch via network cables, connect the appropriate Ethernet or optical cable, configure the port as an access port, assign it to a VLAN, and enable it using CLI commands.

Physical Cable Connection

- **Ethernet Cables:** Use CAT5E or CAT6 cables for standard connections, but avoid using them for 5GE or 10GE interfaces due to potential crosstalk and packet loss issues. If the cable does not meet standards, either replace it or reduce the interface speed .
- **Optical Fiber:** Install an optical module on the SFP+ port if required, and connect to the peer device using optical fiber. Ensure the fiber bend radius does not exceed 180° and remove dust plugs before installation .
- **PoE Considerations:** If using PoE, ensure the power supply type is compatible. Both Ethernet ports support PoE input, and power is superimposed if the types are the same .



- Cable Management: Bundle cables neatly, maintain at least 30 mm spacing between different types, and create drip loops to prevent water ingress .

Configuring Access Ports

- Access the Switch CLI: Connect via console cable or SSH and log in. Enter system-view mode using system-view .
 - Select the Port: Navigate to the target port, e.g., interface GigabitEthernet 0/0/1 .
 - Set Port Type: Configure the port as an access port with port link-type access .
 - Assign VLAN: Assign the port to a VLAN using port default vlan 10 (replace 10 with your VLAN ID), .
 - Enable the Port: Activate the port with undo shutdown .
 - Save Configuration: Use save to make changes permanent .
- #### Security and Optimization
- Port Security: Enable MAC address binding with port-security enable and port-security mac-address sticky to prevent unauthorized devices .
 - Rate Limiting: Apply outbound rate limits using qos lr outbound cir to control traffic .
 - Verification: Check port status with display interface GigabitEthernet0/0/1 and VLAN assignment with display vlan .

Additional Notes

- For trunk ports, use port link-type trunk and allow VLANs with port trunk allow-pass vlan all .
- For switches supporting auto-negotiation, enable rate decrease auto-negotiation to adjust speed based on cable quality .
- Always follow ESD protection measures when handling ports and modules .

By following these steps, you can ensure proper network cable access, secure port configuration, and reliable connectivity on Huawei switches.

Article Content

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Thunder link offers various models of Huawei Ethernet switches and network switches, including the S5720, S6720, S6730, CE6800

Checking the Network Cable

If any of the four line pairs in a cable is damaged, electrical interfaces cannot go Up. Use a cable tester or the virtual cable test

Huawei Switch Configuration Tutorial Basic

Shahed Israr Shahed Israr is a Network Engineer specializing in GPON, FTTH, and telecom access network

HUAWEI SWITCH BASIC CONFIGURATIONS WITH EXAMPLE(5

Access port config: An access port belongs to and carries the traffic of only one VLAN within 2-layer switch. Traffic is

Huawei Switch Stack Configuration | S6730 S5732 S5735

Whether you're a network administrator, IT professional, or simply interested in learning

Example for Configuring a Layer 2 Switch to Work with a Router for ...

Networking Requirements In Figure 3-326, a company has multiple departments that belong to different network segments, and each

Example for Configuring a Layer 3 Switch to Work with a Router for ...

Example for Configuring a Layer 3 Switch to Work with a Router for Internet Access
Layer 3 Switch Layer 3 switches provide the

Ethernet Interface Configuration Commands

Usage Guidelines Usage Scenario You can check the quality of the network cable on a MultiGE electrical interface to determine

Sx300 Series Switches Typical Configuration Examples (V200)

A network administrator usually logs in to a new switch through a console port and then performs initial

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