

H3C Switch Fiber Optic Access



Overview

H3C industrial switches can operate in -40°C - 75°C environments for a long time, and use industrial components to reach IP40 H3C S6825 Series.

Key Takeaways

H3C switches support fiber optic connections via SFP, SFP+, and SFP-DD ports, and proper installation and verification are essential for optimal link performance. Fiber Optic Ports and Modules

H3C switches, such as the S3100 series and CN6675B, provide fiber optic connectivity through 100/1000Base-X SFP ports, 10/25/40/50/100G SFP+ or SFP-DD ports, depending on the model. These ports allow connection to fiber optic cables using compatible transceivers. The H3C Transceiver Modules User Guide lists supported modules for different speeds and distances, including short-range (SR), long-range (LR), and extended-range (ER) modules.

Connecting Fiber Optic Cables

- Select the correct transceiver for the port and desired distance.
- Insert the transceiver into the SFP/SFP+ port until it clicks securely.
- Connect the fiber optic cable to the transceiver, ensuring proper alignment of transmit (TX) and receive (RX) fibers.
- Verify the link by checking the port LEDs: a solid or blinking link LED indicates a successful connection.

Verifying Optical Module Status

H3C switches provide commands to monitor fiber optic connections:

- Use show interface to view detailed interface and optical module status, including link state, module type, and statistics .
- If the interface type or number is unknown, show interface brief displays all interfaces and their status.
- A link state of UP indicates normal operation, while DOWN or errors may indicate misalignment, incompatible modules, or cable issues .

Best Practices

- Ensure the switch is properly mounted and powered on before connecting fiber modules .
- Use clean fiber connectors to prevent signal loss.
- Avoid bending fiber cables sharply; maintain the minimum bend radius.
- Confirm that the transceiver type matches the port speed and network requirements.
- For troubleshooting, check both the switch configuration and the optical module statistics to identify link abnormalities . By following these steps, you can establish reliable fiber optic connections on H3C switches, ensuring high-speed, low-latency network performance.

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