

How to configure a switch with dual optical ports



AI Overview

To connect two switches via optical ports, ensure compatible SFP modules, matching fiber types, and configure the ports for proper speed, duplex, and VLAN settings.

Step 1: Verify Hardware Compatibility

- SFP Modules:** Ensure both switches have compatible SFP transceivers. Check whether they are single-mode or multi-mode and confirm the wavelengths match (e.g., 850nm for multi-mode, 1310nm or 1550nm for single-mode).
- Fiber Type:** Use the correct fiber cable type (single-mode or multi-mode) corresponding to the SFP modules.
- Port Speed and Duplex:** Confirm that both optical ports support the same speed (typically 1 Gbps or 10 Gbps) and duplex mode.
- Distance and Power:** Ensure the optical power output and receiver sensitivity are compatible for the distance between switches.

Step 2: Physical Connection

- Insert the SFP modules into the optical ports of both switches.
- Connect the switches using the appropriate fiber cable (LC connectors are common for SFPs).
- For dual-fiber modules, ensure transmit (Tx) and receive (Rx) fibers are correctly crossed; for single-fiber modules, verify the transceiver supports bidirectional communication.

Step 3: Configure Switch Ports

- Enable the interface:** On Cisco switches, use: `CodeCopy interface GigabitEthernet1/1 no shutdown` Replace GigabitEthernet1/1 with the actual SFP port identifier.
- Assign VLANs:** If you want the link to carry traffic for a specific VLAN, configure the port as a trunk or access port: `CodeCopy switchport mode trunk` `switchport trunk allowed vlan 1,10,20` or for access: `CodeCopy switchport mode access` `switchport access vlan 1`
- Set speed and duplex (if required):** `CodeCopy speed 1000 duplex full` Some switches auto-negotiate these settings for fiber ports.

Step 4: Verify the Link

- Check the interface status:** `CodeCopy show interface status` `show ip interface brief` The port should show...

Article Content

Configuring Fibre Channel Interfaces

Each physical Fibre Channel interface in a switch may operate in one of several port modes: E mode, TE mode, F mode, and SD mode (see the figure below). A physical Fibre Channel interface can be

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Configuring Fibre Channel Interfaces

This feature allows multiple applications on the N port to use different identifiers and allows access control, zoning, and port security to be implemented at the application level.

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How to configure fiber optics on a Cisco switch

Cisco switches are devices that connect multiple network devices and enable data transfer between them. Configuring fiber optics on a Cisco switch may seem complicated, but with

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