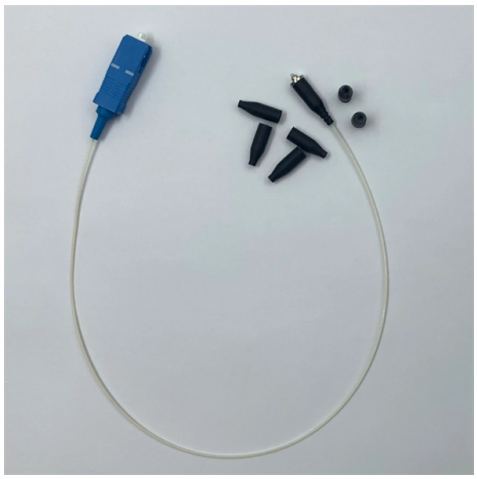
Connecting two fiber optic ports on the switch



Overview

Can two switches with fiber ports be directly connected through fiber ports? The answer is yes. The mainline of the fiber optic LAN directly connects to the switch, then to the router.

Key Takeaways

To connect two fiber optic ports on switches, use compatible SFP transceivers with duplex fiber cables, ensuring proper fiber type, connector, and port configuration. Required EquipmentSFP Transceiver Modules: Each switch must have an SFP (Small Form-factor Pluggable) module installed in the fiber port. Ensure the modules are compatible with the fiber type (single-mode or multimode) and the desired speed (1G SFP, 10G SFP+, etc.),.

Duplex Fiber Optic Cable: Use a pre-terminated duplex fiber cable with LC connectors. Duplex cables have two strands: one for transmitting and one for receiving. Optional LC-LC Coupler: If using separate fiber patch cords, an LC-LC coupler can join the fibers between switches.

Steps to Connect

Check Compatibility: Confirm that both switches' SFP modules match in fiber type, wavelength, and supported distance. Also, verify port speed and duplex mode are compatible.

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Insert SF

P Modules: Plug the SFP transceivers into the fiber ports on each switch. Connect Fiber Cable: Attach the duplex fiber cable to the SFP modules. Ensure the transmit (TX) on one switch connects to the receive (RX) on the other switch, and vice versa.

Verify Link: Power on the switches and check the SFP port LEDs. If the link is down, ensure the VLAN interface is enabled (e.g., no shutdown on VLAN 1 for Cisco switches) and that the SFP modules are recognized. Configure Network Settings: Assign VLANs or trunking as needed to allow communication between devices on both switches.

For simple connectivity, the default VLAN may suffice.

Tips

Use Pre-terminated Cables: Saves time and reduces errors compared to field-terminated fiber. Limit Cascading Layers: For multiple switches, avoid cascading more than four layers to maintain performance. Check Optical Power: Ensure the optical power and sensitivity of the SFP modules are within the same range to prevent link issues.

Clean Connectors: Always clean fiber connectors before connecting to avoid signal loss. By following these steps and ensuring compatibility between SFP modules and fiber cables, you can successfully connect two fiber optic ports on switches for high-speed, reliable network communication.

Article Content

Tips For Connecting Two Switches Through Fiber Ports

Can two switches with fiber ports be directly connected through fiber ports? The answer is yes. The mainline of the fiber optic LAN directly connects to the switch, then to the router. The

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When connecting terminated duplex fiber optic cable between two network switches, ensure the connections are reversed between the SFP transceiver ports (connection A to B and B to A). SFP

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004_TLN_AppBro_FiberReadyNetSwitch

When connecting terminated duplex fiber optic cable between two network switches, ensure the connections are reversed between the SFP transceiver ports (connection A to B and B to A). SFP

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