

RIVO MULTITRADE OPTICAL SYSTEMS

How to connect the fiber optic cables between the two switches



Overview

In this video, you will see how to link two network ports together to achieve 2G bandwidth between the switches.

Key Takeaways

Use compatible SFP transceivers and duplex fiber cables, ensuring proper LC connector orientation, to link the switches.

Step 1: Determine Fiber Type and Distance

First, identify whether you need single-mode (SMF) or multimode (MMF) fiber based on the distance between switches. For short distances within the same building (e.g., 100 meters), multimode OM3 or OM4 fiber is typically sufficient, while longer distances require single-mode fiber .

Step 2: Select Compatible SFP Modules

Each switch requires an SFP or SFP+ transceiver compatible with its model and the fiber type. For example, Cisco switches like the C9300 and C9200 support SFP+ modules such as GLC-SX-MM for multimode fiber or SFP-10G-LR for single-mode fiber . Ensure that both ends use the same type of SFP module to avoid incompatibility.

Step 3: Choose the Correct Fiber Cable

Use a duplex fiber optic cable with LC connectors on both ends. Duplex cables have two strands: one for transmitting (TX) and one for receiving (RX). Pre-terminated cables save time and reduce installation errors . For multimode fiber, a 50/125 OM3 LC-LC cable is standard .

Step 4: Connect the Fiber

- Insert the SFP modules into the fiber ports of each switch.
- Connect the TX of switch A to RX of switch B and RX of switch A to TX of switch B. Duplex fiber requires reversing the strands between switches to ensure proper communication .
- Secure the cable and avoid sharp bends to prevent signal loss.

Step 5: Verify Connectivity

After connecting, check the switch interfaces to ensure the link is up/up. Configure the ports if necessary, and test data transfer. If using multiple links, you can aggregate them for higher bandwidth.

Additional Tips

- Label cables for easier troubleshooting.
- Use patch panels if connecting through structured cabling.
- Ensure SFP modules match the network speed (1G, 10G, etc.) supported by the switches .
- For cost efficiency, multimode SFPs are cheaper for short distances, while single-mode is better for long-range connections . By following these steps, you can establish a reliable fiber optic connection between two switches, ensuring high-speed and stable network performance.

Article Content

Connecting Network Switches via Fiber

When connecting terminated duplex fiber optic cable between two network switches, ensure the connections are reversed between

How to link two Network Switch with fiber cables

In this video, you will see how to link two network ports together to achieve 2G bandwidth between the switches. You

How to Connect Switch to Switch With Fiber Optic Cable

This guide will walk you through the entire process of connecting switch to switch with fiber optic cable, covering

Connecting two switches through a fiber cable

If there is no link light when you connect the fiber port, you have most likely a physical layer issue. So, check to see if

Connecting Two Cisco Switches Using a fiber cable.

My other option of each floor, running a minimum of two pairs of fibre to the distribution switch, and then connecting

Choosing the Right Fiber Optic to Connect Two Switches

If you want to achieve the highest speed and distance in the cabling between two or more switches, without a doubt,

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

Application Guide: Connecting Fiber-ready Network Switches

Terminate your fiber optic cabling with two LC-style connectors or purchase a pre-terminated fiber optic cable with two LC-style

How Are Network Switch Connect To Fiber

Learn how network switches connect to fiber optics for fast and reliable data transmission. Understand the benefits

Connect two Fiber Optic Cables using Patch Cord?

Here in the picture, Red links are fiber optic cables; and green is the fiber optic patch cord intended to connect with.

How to connect 2 parts of a facility using fiber optic cable?

I'd plan for at least four fiber runs between your switch closets. Assuming you have two switches on each end, you'd

Those who use fiber to connect switches together what do you use?

Hi everyone I'm looking at buying some SFPs to connect my switches together rather than using the copper ports. I'm debating if MM

3 FAQs of Connecting Switches by Fiber Optical Ports

Switch optical port intercommunication means that the optical fiber ports of two switches are connected to each other

Fiber connectivity between 2 switches

I have an issue when connecting two switches with fiber. The switches connect as expected when in the same room

Solved: Fiber from one switch to another

I have purchased 4 cisco GLC-SX-MM mini modules to put into the 3560's, 2 in each device. I also bought 1 LC to LC

Fibre connectors and how to connect to Ethernet switch

The 1st floor will have the current Production System (Ethernet connections / switches). In the ground floor we will

Need advise on connecting the fiber cable between two switches.

Need advise on connecting the fiber cable between two switches. We have existing core switch model C9300-NM-8X,

Connecting two buildings with fiber

Hello Everyone, I have two Cisco SG500-28 switches. I would like to run a approximately 300ft-360ft fiber cable from

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