

Configure the connection between two switch optical ports



Article Overview

To connect two switches via fiber, ensure compatible SFP/SFP+ modules, matching fiber type, proper connectors, and configure interfaces correctly, optionally using EtherChannel for redundancy.

Step 1: Choose the Right Fiber and SFP Modules

- Fiber Type: Use multimode fiber for short runs (under 1000 feet / ~300 meters) and single-mode fiber for longer distances (over 1000 feet) .
- SFP/SFP+ Modules: Select modules that match the fiber type and desired speed. 1G modules are SFP, 10G modules are SFP+, and higher speeds use QSFP .
- Wavelength and Duplex: Ensure both switches use the same wavelength and duplex mode. For duplex fiber, connect send on one port to receive on the other .

Step 2: Connect the Fiber

- Use LC-LC connectors for most modern SFP modules .
- Verify that the fiber strands are correctly crossed: transmit (TX) on switch A to receive (RX) on switch B.
- Check that the fiber length does not exceed the module's maximum transmission distance .

Step 3: Configure Switch Interfaces...

Article Content

Apr 01, 2026

3 FAQs of Connecting Switches by Fiber Optical Ports

Can two switches with optical ports be directly connected by optical fiber? Yes, the main

Aug 11, 2025

Connecting Two Network Switches Together

In this video we take a look at the different ways of connect 2 switches together. There

Sep 13, 2025

Connectrix: How to Configure an Inter-Switch Link | Dell US

This article provides the prerequisites and steps to configure the inter-switch link (ISL) on a Brocade switch.

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How to Connect two PoE switch with fiber optical cable

Next connect fiber cable to the SFP module. Finally, use Ethernet patch cord to link the media convertor to PoE switch. While SFP

Jun 10, 2026

Steps for Creating an Etherchannel Between Catalyst Switches

This document provides simplified steps for creating a layer two port channel between two Catalyst switches running

Feb 12, 2026

Connecting two switches through a fiber cable

I need to connect a single 3750G - 48 ports switch to a single 2960 - 48 ports switch and it needs to be through a

Oct 20, 2025

Troubleshoot Switch Port and Interface Problems

This document describes how to determine why a port or interface experiences problems.

Aug 29, 2025

What is Differences Between Switch Optical Ports and Ethernet Ports

Switches come in three types: those with purely Ethernet ports, those with purely optical ports, and those with a

Oct 07, 2025

How to connect two cisco switches inside LAN

With these switches, you can make a 2 gig uplink, instead of a 1 gig uplink, by combining 2 gigabit ports into one port

Aug 11, 2025

VLAN Configuration & Trunking Between Two Cisco Switches

☐☐ Master the art of VLAN configuration and trunking between two Cisco switches with this

Oct 31, 2025

Introduction of Two Optical Ports and the Role of Optical Ports on ...

A lot of customers in the purchase of industrial Ethernet switches will ask how many optical and electrical ports of

Jul 16, 2026

How To Connect A Network Switch To Another Network Switch

In this comprehensive guide, we will explore the intricacies of network switches and provide step-by-step instructions

Feb 03, 2026

Fiber Optic Switch Guide: Definition, Connection Methods, Cabling ...

A practical B2B guide explaining what a fiber optic switch is, how to connect fiber optic cable to Ethernet switches, how

Nov 28, 2025

How to Connect Multiple Ethernet Switches Using Fiber Optic Cables ...

In cases where the distance between switches exceeds the total cable length, you can use the LC-LC coupler to

May 02, 2026

Connecting Network Switches via Fiber

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

Feb 04, 2026

How to Connect Two Switches Together: A Comprehensive Guide

However, when four switches are stacked together, the stacking cables provide backplane bandwidth greater than

Feb 24, 2026

Configure ethernet switch ports

Using VTP, you can make configuration changes centrally on one or more switches and have those changes automatically

Apr 04, 2026

How To Configure Two Switches Together

This type of cable is designed for connecting two switches together and ensures that the data sent from one switch is

Jul 03, 2026

2.2 Configure and verify interswitch connectivity

2.2 Configure and verify interswitch connectivity 2.2.a Trunk ports 2.2.b 802.1Q 2.2.c Native VLAN What if we have a large network

Oct 31, 2025

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,

Feb 03, 2026

How do I setup two switches together?

To set up two switches together, you will need to connect them using an Ethernet cable. The type of cable required

Feb 26, 2026

Connecting Two Cisco Switches Using a fiber cable.

3750G which has more than 2 SFP ports (option#1 & option#2 = attached here with) = Kindly advice.. Kindly advice

Dec 13, 2025

Switch Ports

Meraki's MS switches allow for the configuration of a single port to thousands of ports through our industry-first Virtual

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Connecting two switches through a fiber cable

Well, I have erased (write erase) the configuration of both switches, so they have the default cisco config. I have

Contact Us

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