

Interconnecting two fiber optic network switches



Article Overview

Two fiber optic switches can be interconnected using compatible SFP transceivers and fiber cables, ensuring matching fiber type, wavelength, and port configuration.

Step 1: Verify Compatibility

Before connecting, ensure the following:

- Fiber type: Both switches must use the same fiber type—single-mode or multi-mode ().
- SFP transceivers: The transceivers at both ends must match in type (SX, LX, ZX) and wavelength ().
- Port speed and duplex: Ensure both fiber ports support the same speed (1Gbps, 10Gbps, etc.) and duplex mode ().
- Optical power and distance: Check that the transceivers' optical power and sensitivity are suitable for the distance between switches ().

Step 2: Select the Fiber Cable

- Use LC-LC patch cables for SFP connections.
- Match the cable type to the transceivers: single-mode fiber for single-mode SFPs, multi-mode fiber for multi-mode SFPs ().
- For redundancy or higher bandwidth, consider dual fiber runs and configure them as a port channel to aggregate bandwidth ()...

Article Content

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004_TLN_AppBro_FiberReadyNetSwitch

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At this point, I have a separate "dumb" switch to do this and separate cabling, but at our new location, this isn't easy

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

Contact Us

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