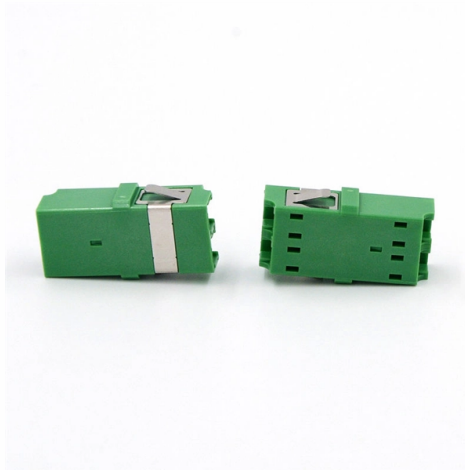


Interconnecting two fiber optic switches



Article Overview

To connect two fiber optic network switches, use compatible SFP/SFP+ modules with duplex fiber cables, ensuring proper TX/RX alignment and matching fiber type (single-mode or multimode) for the distance and bandwidth required.

Step 1: Determine Fiber Type and Distance

- Multimode fiber (MMF) is suitable for short distances, typically under 1000 feet (300 meters), using 850nm wavelength SFP modules .
- Single-mode fiber (SMF) is ideal for longer distances, from several hundred meters to tens of kilometers, using 1310nm or 1550nm wavelength SFP modules .
- Choose the fiber type based on the physical distance between switches and the required bandwidth.

Step 2: Select Compatible SFP/SFP+ Modules

- Check your switch's specifications for supported SFP or SFP+ modules.
- 1G connections use SFP transceivers, 10G connections use SFP+ transceivers, and higher speeds may require QSFP modules .
- Ensure the module matches the fiber type (single-mode or multimode) and connector type (usually LC), .

Step 3: Use Duplex Fiber Cabling

- Most SFP modules require duplex fiber, meaning two strands: one for transmit (TX) and one for receive (RX),

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