

How to connect a router with dual fiber optic interfaces



Article Overview

To connect a dual fiber optic router, use compatible SFP modules with duplex fiber cables, configure one router as primary and the second in Access Point mode, and assign static IPs within the same subnet to ensure seamless network communication.

Physical Connection

- **Check Compatibility:** Ensure your fiber optic cables match the SFP transceivers in type (single-mode or multi-mode) and connector type (e.g., LC-LC, UPC-UPC) for both routers .
- **Use Duplex Fiber Cables:** For most setups, duplex cables are recommended to handle bidirectional communication. Simplex cables may be used only if space or conduit limitations exist .
- **Connect SFP Modules:** Insert the SFP modules into the fiber ports of both routers and connect the duplex fiber cable between them .

Network Configuration

- **Primary Router Setup:** Connect the fiber optic cable from your ISP to the WAN port of the primary router. Configure it normally with DHCP enabled to manage IP addresses for your network .
- **Secondary Router Setup:** Configure the second router in Access Point (AP) mode to extend coverage. Assign it a static IP address within the same subnet as the primary router but outside the DHCP range to avoid conflicts .
- **Disable DHCP on Secondary Router:** This ensures all devices receive IP addresses from the primary router, maintaining a unified network

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Biconic BiconicConnector. ST (straight tip) Connector. SC (Square connector)Connector. FC (Face Contact)Connector. FDDI FDDI

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fiber cable to connect 2 routers

I'm new to fiber optics and ordered 2 Mikrtotiks with SFP. I got the S-3553LC20D LC adapter and wanted to make sure

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As a result, connecting fiber optic cables to routers has become essential for maximizing network performance and

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Is there a way to connect both strands to a single router port without creating two interfaces on the router for each fiber connection?

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Cisco routers with Fiber-optic interface

is there are router with both Fiber-optic (SM) and E1 interface that can act as a redundant on a both Microwave and

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Is it possible to connect two wifi routers to same fiber modem

My house there is a one fiber broadband port and fiber modem connected to this port using fiber cable. Then Wireless router

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