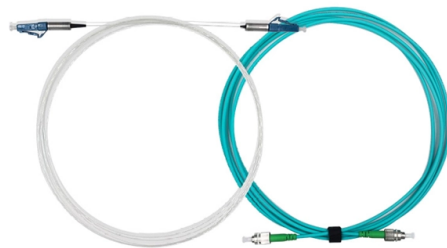


How to connect fiber optic routers A and B



AI Overview

To connect two fiber optic routers, use compatible SFP/SFP+ modules or media converters, linking them via fiber optic cables and configuring each router's WAN/LAN settings appropriately.

Required Equipment

- Fiber-Ready Routers:** Ensure both routers have SFP/SFP+ ports or support fiber input. If not, use media converters to convert fiber to Ethernet.
- Fiber Optic Cables:** Single-mode or multi-mode depending on distance and router specifications. Check connector types (SC, LC, etc.).
- SFP/SFP+ Modules:** Match the fiber type and speed supported by the routers.
- Ethernet Cables:** For connecting ONTs or media converters to router WAN/LAN ports if needed.

Step-by-Step Connection

- Check Router Compatibility** Verify that both routers have fiber ports (SFP/SFP+) or plan to use media converters to bridge fiber to Ethernet ports.
- Install SFP Modules or Media Converters** Insert the SFP/SFP+ modules into the fiber ports of each router. If using media converters, connect the fiber cable to the converter and then use Ethernet to connect to the router's WAN/LAN port.
- Connect Fiber Cable** Use a single fiber strand for simplex or two strands for duplex connections. Align the connectors carefully and insert them into the SFP modules or media converters. Avoid bending or contaminating the fiber ends.
- Power Up Devices in Sequence** If using ONTs or media converters, power them on first. Then power on the routers to allow proper link negotiation.
- Configure Network Settings** Access each router's web interface. Assign IP addresses, configure routing or bridging modes, and enable any VLAN or QoS settings if required. Ensure that the routers are on compatible subnets or configured for point-to-point communication.
- Test the Connection** Check the link lights on SFP modules or media converters. Ping from Router A to Router B to verify connectivity. Adjust settings if the connection is unstable or speed is below expectat...

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Since most fiber optic links use two fibers transmitting in opposite directions to create a full duplex link, you need to ensure that transmitters are connected to receivers and vice versa.

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Conclusion Connecting two routers on the same fibre optic line can be an effective solution to extend your network coverage and ensure a seamless

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By understanding these components and following these steps, you can successfully connect your fiber optic cable to both Ethernet and wireless

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