

How to connect two fiber optic routers



Article Overview

You can connect two routers to a fiber optic connection by using the first router as the primary gateway and linking the second router to it, either in Access Point or LAN-to-WAN mode, to extend or segment your network.

Step 1: Understand Your Network Setup

The fiber optic line terminates at an Optical Network Terminal (ONT) or fiber modem, which converts optical signals into electrical signals for your router. Typically, the ONT provides a single public IP address, so connecting two routers directly to it is not recommended for residential setups, as it can cause IP conflicts. Instead, the first router should act as the primary gateway.

Step 2: Choose the Right Mode for the Second Router

- Access Point (AP) Mode: Extends the existing network without creating a separate subnet. Ideal for seamless Wi-Fi coverage.
- LAN-to-WAN Mode: Creates a separate network segment with its own subnet. Useful for isolating devices or managing traffic separately.
- Ensure the second router supports the chosen mode and operates on compatible frequency bands to avoid interference.

Step 3: Physical Connection

- Use an Ethernet cable to connect the routers. For AP mode, connect a LAN port on the primary router to a LAN port on the secondary router. For LAN-to-WAN mode, co...

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How to use fiber optical cable to connect second WiFi router

Usually, you will need two media converters on both ends. The regular WiFi router

Contact Us

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