

RIVO MULTITRADE OPTICAL SYSTEMS

How to connect a dual-fiber router



Overview

How to Connect One Router to Another to Expand a Network Learn how to connect two WiFi routers to extend your network coverage. This video shows both metho.

Key Takeaways

You can connect a dual-fiber router by using either a wired LAN-to-LAN or LAN-to-WAN setup, or by configuring one router as a wireless bridge to extend your network. Step 1: Identify Your Primary and Secondary Routers

Determine which router will serve as the main router connected directly to the internet via fiber. The secondary router can act as an additional access point, network extender, or separate subnet for guest or IoT devices. Ensure both routers support bridge mode, WDS, or repeater functionality if you plan a wireless connection .

Step 2: Wired Connection (Recommended for Stability)

- LAN-to-WAN Method: Connect an Ethernet cable from a LAN port on the primary router to the WAN (Internet) port on the secondary router. This allows the secondary router to manage its own subnet and DHCP settings .
- LAN-to-LAN Method: Connect a LAN port on the primary router to a LAN port on the secondary router. Disable DHCP on the secondary router to avoid IP conflicts. This method extends the same network across both routers, ideal for seamless Wi-Fi coverage .

- **Configure IP Addresses:** Assign a static IP to the secondary router within the primary router's subnet but outside its DHCP range to prevent conflicts. For example, if the primary router is 192.168.1.1, set the secondary to 192.168.1.2 .

Step 3: Wireless Bridge or Repeater Setup

If running a cable is impractical:

- Place the secondary router within range of the primary router's Wi-Fi signal.
- Access the secondary router's admin panel using its default IP (commonly 192.168.0.1 or 192.168.1.1).
- Enable wireless bridge, repeater, or Wi-Fi extender mode.
- Select the primary router's SSID and enter the Wi-Fi password. The secondary router will now extend the network wirelessly .

Step 4: Configure Wi-Fi Settings

- Set a unique SSID for the secondary router if you want separate networks, or use the same SSID for seamless roaming.
- Ensure both routers use the same security protocol (WPA2/WPA3) and password if sharing the network.
- Adjust channels to minimize interference (e.g., primary on channel 1, secondary on channel 6 or 11), .

Step 5: Test Connectivity

- Connect a device to the secondary router via Wi-Fi or Ethernet.
- Verify internet access and check for stable speeds.
- If using LAN-to-LAN, ensure devices can communicate across both routers.

Additional Tips

- Keep Ethernet cables under 100 meters (≈ 328 ft) to maintain signal quality.
- Update firmware on both routers for optimal performance.
- For dual-fiber setups, ensure the router supports dual WAN/fiber ports if you plan load balancing or failover between two fiber connections . By following these steps, your dual-fiber router setup will provide extended coverage, additional ports, and improved network performance.

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