

RIVO MULTITRADE OPTICAL SYSTEMS

Setting up a dual-fiber interconnect router



Overview

Hooking up 2nd router to network: AP mode, WAN, or LAN?

How do you choose the right setup when hooking up 2nd router to network?

Choose AP mode for one shar.

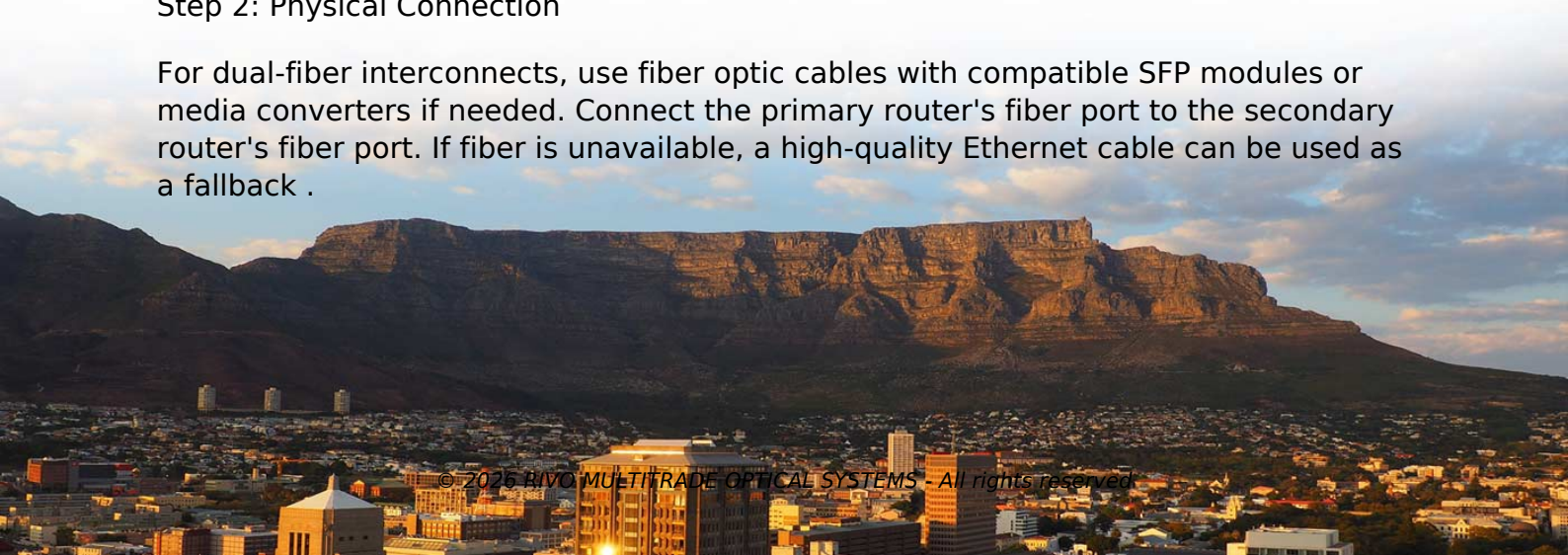
Key Takeaways

To set up a dual-fiber interconnect router, connect the routers via fiber or Ethernet, configure IP addresses and DHCP settings, and choose the appropriate LAN-to-LAN or LAN-to-WAN topology for your network.

Step 1: Determine Network Topology
Decide whether your secondary router will act as a separate network segment (LAN-to-WAN) or as an extension of the primary network (LAN-to-LAN). LAN-to-LAN is ideal for expanding the same subnet and sharing resources, while LAN-to-WAN isolates traffic for security or performance purposes .

Step 2: Physical Connection

For dual-fiber interconnects, use fiber optic cables with compatible SFP modules or media converters if needed. Connect the primary router's fiber port to the secondary router's fiber port. If fiber is unavailable, a high-quality Ethernet cable can be used as a fallback .



Step 3: Configure IP Addresses

- Assign a static IP to the secondary router outside the DHCP range of the primary router to avoid conflicts (e.g., if the primary router uses 192.168.1.2–192.168.1.200, assign 192.168.1.201 to the secondary router), .
- Ensure both routers are on the same subnet if using LAN-to-LAN, or configure proper routing if using LAN-to-WAN .

Step 4: DHCP and Routing

- LAN-to-LAN: Disable DHCP on the secondary router so the primary router manages IP assignments .
- LAN-to-WAN: Keep DHCP enabled on the secondary router to manage its own subnet, ensuring proper NAT and routing .
- Verify that the primary router's gateway is correctly set for internet access.

Step 5: Wireless and Bridging (Optional)

If the routers support wireless bridging or WDS, you can configure the secondary router as a wireless access point to extend coverage without additional cabling . Ensure SSID, security settings, and channels are properly configured to avoid interference.

Step 6: Testing and Validation

- Connect a device to the secondary router and verify internet access and network visibility.
- Test fiber link performance and redundancy if using dual-fiber for failover.
- Adjust MTU, VLANs, or QoS settings as needed for optimal performance.

Step 7: Documentation and Maintenance

Document IP addresses, fiber port assignments, and configuration settings. Keep firmware updated on both routers to ensure compatibility and security. By following these steps, your dual-fiber interconnect router setup will provide high-speed connectivity, redundancy, and expanded network coverage, suitable for both home and enterprise environments .

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