

Connecting dual fiber optic routers



Article Overview

To connect a router to dual fiber optic connections, you typically use an Optical Network Terminal (ONT) for each fiber line and configure a dual-WAN or multi-router setup to manage traffic efficiently.

Hardware Setup

- **Optical Network Terminals (ONTs):** Each fiber optic line requires an ONT to convert optical signals into electrical signals your router can use . Place each ONT near the fiber entry point to minimize signal loss.
- **Fiber-Ready Router:** Ensure your router supports dual-WAN or multiple WAN inputs. Some high-end routers have two WAN ports specifically for redundancy or load balancing .
- **Cabling:** Use high-quality fiber optic cables (SC/APC or SC/UPC connectors) to connect each fiber line to its respective ONT, then use Cat6a or higher Ethernet cables to connect the ONTs to the router's WAN ports .

Network Configuration

- **Dual-WAN Router Setup:** Configure the router to recognize both WAN connections. You can set one as primary and the other as backup (failover) or use load balancing to distribute traffic across both connections .
- **IP Address Management:** Each ONT typically provides a single public IP. If your ISP allows multiple IPs, assign each WAN port its own IP. Otherwise, use one router as the primary gateway and connect the second router behind it using a point-to-point subnet to avoid conflicts .
- **Routing Between Routers:** If using two routers, create a point-to-point link (e.g., 192.168.3.0/30) between them. Set the default route on the secondary router to th...

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The router may require a few minutes to set up the new connection. 7. Verify the connection: To make sure everything

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fiber cable to connect 2 routers

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Using fiber optic cable to connect multiple routers (both are ...

My ISP gives me an 500mpbs FIBER optic cable connection to my home. Currently I have the connection connected to my router-A

Contact Us

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