

RIVO MULTITRADE OPTICAL SYSTEMS

How to bridge fiber optic cables to connect a router



Overview

However, setting up a fiber optic connection to your router can seem daunting if you're unfamiliar with the process.

Key Takeaways

To bridge a fiber optic connection to your router, you must use an Optical Network Terminal (ONT) to convert the fiber signal to Ethernet, then connect it to your router's WAN port, optionally enabling bridge mode for direct routing.

Step 1: Understand the Role of the ONT

Fiber optic cables cannot connect directly to a standard router because the signal is optical, not electrical. The ONT provided by your ISP converts the incoming light signal into an Ethernet signal that your router can use. The ONT is typically installed near the fiber entry point in your home and contains an optical port for the fiber cable and Ethernet ports for connecting networking devices.

Step 2: Connect the Fiber Cable to the ONT

- Remove protective caps from both the fiber cable and the ONT port.
- Align the connector carefully using the key or tab and insert it until it clicks securely.

- Handle the fiber connector by its plastic housing to avoid damage or contamination .

Step 3: Link the ONT to Your Router

- Use a high-quality Ethernet cable (Cat6 or higher) to connect the ONT's LAN or Ethernet output port to your router's WAN/Internet port .
- Ensure both devices are near a power source and in a dry, ventilated area.
- Power on the ONT first and wait for it to establish a connection with the ISP network. Status lights should indicate power and active optical link .

Step 4: Enable Bridge Mode (Optional but Recommended)

If your ISP's ONT also functions as a router, enabling bridge mode allows your personal router to handle all routing, DHCP, NAT, and Wi-Fi management, avoiding Double NAT issues .

- Connect a computer to the ONT via Ethernet.
- Access the ONT's admin interface using its IP address and login credentials.
- Navigate to settings such as Operation Mode, Network Settings, or WAN, and select Bridge Mode.
- Save changes and reboot the ONT.
- Connect your router's WAN port to the designated LAN port on the ONT. Your router should now detect the internet connection .

Step 5: Configure Your Router

- Enter your ISP credentials (if required) in the router's admin panel.
- Update firmware to ensure optimal performance.
- Set up Wi-Fi and secure your network with a strong password.
- Test the connection using a speed test to confirm proper bridging . By following these steps, your fiber optic connection will be successfully bridged to your router, providing high-speed, low-latency internet while allowing your personal router to manage your home network efficiently.

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How to connect optic fiber cable to the router

The very basic operation to be performed on an optical fiber is to connect it to a standard connector. To do so, the

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