

# How to replace the entire fiber optic cable with a router



## AI Overview

To replace a fiber optic cable and connect it to a router, you need to use an Optical Network Terminal (ONT) to convert the fiber signal into Ethernet, then link it to your router.

**Step 1: Gather Necessary Equipment** Before starting, ensure you have the following:

- Optical Network Terminal (ONT):** Provided by your ISP, it converts fiber optic signals into electrical signals compatible with your router.
- Fiber optic cable:** Typically single-mode with SC/APC or SC/UPC connectors.
- Ethernet cable:** Cat6 or Cat6a recommended for high-speed data transfer.
- Fiber-ready router:** Ensure it supports gigabit speeds or higher, with a WAN or SFP port.

**Step 2: Install the ONT** Locate the fiber optic wall outlet where the ISP's fiber line enters your home or office. Connect the fiber optic cable from the wall outlet to the ONT's designated optical port. Handle the fiber connector carefully to avoid dirt or damage. Power on the ONT and wait for the status lights to stabilize, usually 2-5 minutes.

**Step 3: Connect the ONT to Your Router** Use an Ethernet cable to connect the ONT's LAN or Ethernet output port to the router's WAN or Internet port. Power on the router and wait for the indicator lights to confirm a successful connection.

**Step 4: Configure the Router** Access the router's configuration interface via a web browser (commonly 192.168.0.1 or 192.168.1.1). Follow the setup wizard to configure your Wi-Fi network, including SSID and password. Enable Quality of Service (QoS) if needed for VoIP or video conferencing to prioritize traffic. Verify that the WAN or Internet light on the router is solid green, indicating a stable connection.

**Step 5: Test and Optimize** Run a speed test to ensure the connection matches your ISP's promised speeds. Check that all devices can connect to the network. Ensure cables are securely connected and the ONT is positioned close to the fiber entry point to minimize signal loss. Following these steps...

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