

# How do I configure a fiber optic router



## AI Overview

To configure a fiber optic router, connect the fiber line to an ONT, link the ONT to your router via Ethernet, and set up your router's admin settings for secure, high-speed internet.

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

- Optical Network Terminal (ONT) provided by your ISP
- Fiber-compatible router with a WAN or SFP port
- Fiber optic cable (SC/APC or SC/UPC connectors)
- Ethernet cable (Cat6 or higher recommended)
- Power adapters for both ONT and router

**Step 2: Connect the Fiber Line** Locate the fiber wall outlet where the ISP's line enters your home. Plug the fiber optic cable into the wall outlet and the ONT's designated port. Power on the ONT and wait 2-5 minutes for the status lights to stabilize.

**Step 3: Connect the ONT to Your Router** Use an Ethernet cable to connect the ONT's LAN port to the router's WAN port. Power on the router and check that the Power, Internet, and Wi-Fi LEDs turn green.

**Step 4: Access Router Settings** Connect a computer or mobile device to the router via LAN or Wi-Fi. Open a web browser and enter the router's default IP address (commonly 192.168.1.1 or 10.0.0.2). Log in using the default credentials (usually admin/admin) and change the username and password for security.

**Step 5: Configure Internet Connection**

- Auto-detect (DHCP):** Most home ISPs use DHCP, which the router can detect automatically.
- PPPoE:** Enter the ISP-provided username and password.
- Static IP:** Input the IP address, subnet mask, and gateway provided by your ISP.

**Step 6: Set Up Wi-Fi** Choose a network name (SSID) and a strong password. Select the appropriate band: 2.4 GHz for range, 5 GHz for speed. Enable Wi-Fi security (WPA3 or WPA2 recommended) to protect your network.

**Step 7: Optimize Your Network**

- Quality of Service (QoS):** Prioritize devices or activities like video calls or gaming.
- Guest network:** Keep your main Wi-Fi secure while allowing visitors access.
- Parental controls:** Limit screen time and block inappropriate content if needed.
- Firmware updates:** Ensure both router and ONT firmware are up to date for...

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