

# How to set up a router with a 2 gigabit fiber optic connection



## AI Overview

To set up a router for a 2 Gbps fiber optic connection, connect the ONT to your router via Ethernet, configure PPPoE or VLAN settings if required, and optimize both wired and Wi-Fi connections for maximum speed.

**Step 1: Prepare Your Equipment**

- Optical Network Terminal (ONT):** This device converts the fiber optic signal into Ethernet for your router. It is usually provided by your ISP.
- Router:** Ensure your router supports multi-gigabit speeds (2.5 Gbps or higher WAN port) and modern Wi-Fi standards like Wi-Fi 6 or Wi-Fi 7.
- Cables:** Use high-quality CAT6a or CAT7 Ethernet cables to connect the ONT to your router to avoid bottlenecks.
- ISP Credentials:** For some providers, you may need a PPPoE username and password or VLAN ID (e.g., VLAN7 for Deutsche Telekom lines).

**Step 2: Connect the ONT**

Locate the fiber optic wall outlet in your home. Connect the fiber cable from the wall to the ONT's fiber port. Power on the ONT and wait for the status lights to stabilize (usually 2-5 minutes).

**Step 3: Connect the Router**

Use an Ethernet cable to connect the ONT's LAN port to your router's WAN 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 admin panel via a web browser (commonly 192.168.1.1 or 192.168.0.1). Enter your ISP credentials if required (PPPoE username/password or VLAN ID). Update the router firmware to the latest version for performance and security improvements. Set a strong Wi-Fi password and customize your network name (SSID) for security and easy identification.

**Step 5: Optimize for 2 Gbps Speeds**

- Wired Devices:** Connect high-speed devices directly to the router using CAT6a or better Ethernet cables to achieve full 2 Gbps speeds.
- Wi-Fi:** Use Wi-Fi 6 or Wi-Fi 7 routers and place the router centrally in your home for optimal coverage.
- Quality of Service (QoS):** Configure QoS settings to...

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