

Connecting a router to the fiber optic cable in the home



Article Overview

To connect a router to a fiber optic cable, you need an Optical Network Terminal (ONT) to convert the fiber signal into Ethernet, which then connects to your router's WAN port.

Step 1: Gather Necessary Equipment

- Optical Network Terminal (ONT): Provided by your ISP, it converts light signals from the fiber into electrical signals your router can use .
- Fiber optic cable: Usually a thin yellow cable with SC/APC or SC/UPC connectors .
- Router: Ensure it has a WAN port or supports fiber input via SFP modules .
- Ethernet cable: To link the ONT to your router .

Step 2: Install the ONT

- Locate the fiber wall outlet where the ISP's fiber line enters your home .
- Connect the fiber optic cable from the wall outlet to the ONT's optical port, handling the connector carefully to avoid dirt or damage .
- Power on the ONT and wait for the status lights to stabilize, which may take a few minutes .

Step 3: Connect the ONT to Your Router

- Use an Ethernet cable to connect the ONT's LAN/Ethernet port to the WAN/Internet port on your router .
- Power on the router and wait for the indicator lights to confirm a successful connection .

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6. Turn on the router: Once the fiber optic cable is connected to the router, turn the device back on and wait for the

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