

How to connect a router to fiber optic internet in the home



Article Overview

To connect a router to a fiber optic home network, use an Optical Network Terminal (ONT) to convert the fiber signal to Ethernet, then link it to your router's WAN port and configure the router with your ISP credentials.

Step 1: Gather Required Equipment

- Optical Network Terminal (ONT): Provided by your ISP, converts fiber optic signals into Ethernet.
- Fiber optic cable: Usually single-mode with SC/APC or SC/UPC connectors.
- Ethernet cable: Cat6 or higher recommended for high-speed data transfer.
- Router: Ensure it supports gigabit speeds or higher for optimal fiber performance .

Step 2: Connect the Fiber Optic Cable

- Locate the fiber optic wall outlet where the ISP's fiber line enters your home.
- Plug the fiber optic cable into the ONT's optical input port, handling the connector carefully to avoid dirt or damage .
- Power on the ONT and wait for the status lights to stabilize, indicating a successful connection to the ISP network .

Step 3: Link 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 .
- Place both devices near a power outlet and in a well-ventilated area, ideally prote...

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Summary of Connections: Fiber Optic Cable → ONT ONT Ethernet Port → Router WAN Port Router → Power On

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