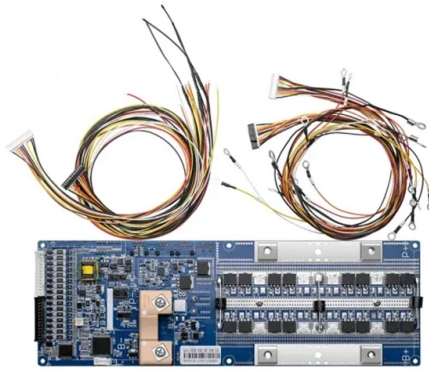


How to connect a home router to fiber optic cable



AI Overview

To connect a home router to a fiber optic internet line, you need an Optical Network Terminal (ONT) to convert the fiber signal into Ethernet, which then connects to your router.

Step 1: Gather Necessary Equipment

- Optical Network Terminal (ONT):** Provided by your ISP, it converts the fiber optic signal into electrical signals your router can use.
- Fiber optic cable:** Usually single-mode with SC/APC or SC/UPC connectors.
- Router:** Ensure it supports fiber input or has a WAN/Ethernet port.
- Ethernet cable (Cat6a or higher recommended):** Connects the ONT to the router.

Step 2: Install the ONT

- Locate the fiber optic 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 (usually 2–5 minutes).

Step 3: Connect the ONT to Your Router

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

Step 4: Verify the Connection

- Check that your devices can access the internet.
- If the router has a web interface, log in to confirm the WAN status and ensure the IP address is assigned correctly.

Precautions

- Always turn off the router before connecting cables to prevent damage.
- Avoid bending the fiber cable sharply, as it can break the delicate glass strands.
- Keep fiber connectors clean and free from dust; use protective caps when not connected.
- If your router lacks a fiber port, a media converter may be required to bridge the fiber to Ethernet.

Following these steps ensures a stable, high-speed fiber optic connection for your home network, leveraging the full performance of your ISP's fiber service.

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The router is responsible for creating a Wi-Fi network that allows multiple devices within your home or business to wirelessly connect to the internet. Using Wi-Fi with fiber internet provides the

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