

Setting up a router with a telecommunications fiber optic cable



AI Overview

To connect a router to a fiber optic line, you need an Optical Network Terminal (ONT) to convert the fiber signal, then link it to your router via Ethernet for high-speed internet.

Required Equipment

- Optical Network Terminal (ONT): Provided by your ISP, it converts fiber optic light signals into electrical signals your router can use .
- Fiber optic cable: Usually single-mode with SC/APC or SC/UPC connectors .
- Router: Ensure it supports gigabit speeds or higher; some routers have SFP ports for direct fiber input .
- Ethernet cable: Cat6a or higher is recommended to maintain optimal speeds between the ONT and router .

Step-by-Step Setup

1. Install the ONT

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

2. Connect the ONT to Your Router

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If your ONT ends up outside, the technician will run an Ethernet cable from the ONT through the wall to your router

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