

How to connect a fiber optic leased line to a router



Article Overview

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

Required Equipment

- Optical Network Terminal (ONT): Provided by your ISP, it converts the optical signal from the fiber line into an electrical signal your router can use .
- Fiber optic cable: Typically single-mode with SC/APC or SC/UPC connectors, connecting the ISP's fiber outlet to the ONT .
- Ethernet cable (Cat6 or higher): Connects the ONT to the router's WAN/Internet port .
- Router: Ensure it supports gigabit speeds or higher to fully utilize fiber performance .

Step-by-Step Setup

- Locate the fiber entry point: Identify where the ISP's fiber line enters your building .
- Connect the fiber cable to the ONT: Remove protective caps, align the connector, and insert it into the ONT's optical port until it clicks securely .
- Power on the ONT: Plug in the power adapter and wait for the status lights to stabilize, indicating a successful connection to the ISP network .
- Connect the ONT to the router: Use an Ethernet cable to link the ONT's LAN/Ethernet port to the router's WAN/Internet port .
- Power on the router: Wait for the router's indicator lights to confirm connectivity

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