

How to connect a router to a high-speed fiber optic cable



Article Overview

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

Required Components

- **Optical Network Terminal (ONT):** Provided by your ISP, this device converts the incoming fiber optic light signals into electrical signals your router can use .
- **Fiber Optic Cable:** Typically thin and yellow, with SC/APC or SC/UPC connectors .
- **High-Speed Router:** Ensure it supports gigabit or multi-gigabit speeds and has a WAN or SFP port compatible with the ONT .
- **Ethernet Cable:** Cat6 or Cat6a recommended for high-speed data transfer between the ONT and router .
- **Power Cables:** For both the ONT and router.

Step-by-Step Connection

- **Locate the Fiber Outlet:** Identify where the ISP's fiber line enters your home or office .
- **Connect Fiber to ONT:** Remove protective caps and carefully insert the fiber optic cable into the ONT's optical port, ensuring a secure click . Handle the fiber by its plastic housing to avoid damage .
- **Power ON the ONT:** Plug in the ONT and wait for the status lights to stabilize, indicating a successful connection to the ISP network .
- **Link ONT to Router:** Use an Ethernet cable to connect the ONT's LAN/Ethernet port...

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Connecting a fiber optic cable to a router might seem daunting at first, but with the right tools and a bit of patience, it's a

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