

Fiber optic box connected to external router



Article Overview

A fiber optic box (external junction box) connects to your router through an Optical Network Terminal (ONT), which converts light signals from the fiber into data your router can use.

How the Connection Works

- **External Fiber Box (Junction Box)** The fiber optic cable from your ISP enters your property and terminates at a small external box, often mounted on a wall. This box serves as the entry point for the fiber network and protects the delicate fiber cable from environmental damage .
- **Optical Network Terminal (ONT)** Inside your home, the fiber cable is connected to an ONT. The ONT converts the light signals from the fiber into electrical signals that your router can use. It is typically mounted near a power source and close to where your router will be placed . Some ISPs provide a combo unit that integrates the ONT and router in one device.
- **Router Connection** The ONT connects to your router via an Ethernet cable. The Ethernet cable plugs into the ONT's LAN port and the router's WAN port. Once powered on, the router distributes the internet connection to your devices via Wi-Fi or additional Ethernet ports .

Installation Considerations

- **Cable Routing:** In some cases, the fiber cable can follow the route of an existing telephone line, but the fiber pigtail is fragile, so this must be done carefully by a tec...

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