

# Setting up a fiber optic connection to a router



## Article Overview

To set up a fiber optic connection, you need an Optical Network Terminal (ONT) to convert light signals to data, then connect it to a compatible router via Ethernet.

### Step 1: Gather Necessary Equipment

- Optical Network Terminal (ONT): Provided by your ISP, it converts fiber optic signals into electrical signals your router can use .
- Fiber optic cable: Usually a thin yellow cable with SC/APC or SC/UPC connectors .
- Router: Ensure it supports fiber input or has a WAN port for Ethernet connection. Modern routers with gigabit or multi-gigabit support (Wi-Fi 6 or newer) are recommended .
- Ethernet cable: Cat6 or higher to connect the ONT to the router .

### Step 2: Install the Optical Network Terminal (ONT)

- Locate the fiber wall outlet where the 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), .

### Step 3: Connect the ONT to Your Router

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

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