

How to install an optical fiber port on a router



Article Overview

To connect a router to an optical fiber port, you need an Optical Network Terminal (ONT) to convert the fiber signal into Ethernet, then link it to your router's WAN port.

Required Equipment

- Optical Network Terminal (ONT): Provided by your ISP, it converts the incoming fiber optic signal into an electrical signal your router can use .
- Fiber optic cable: Usually single-mode with SC/APC or SC/UPC connectors .
- Ethernet cable: Cat6 or higher is recommended for high-speed data transfer .
- Router: Ensure it has a WAN or Internet port compatible with Ethernet input .

Step-by-Step Connection

- Locate the fiber optic wall outlet where the ISP's fiber line enters your home .
- Connect the fiber optic cable to the ONT: Remove protective caps, align the connector, and insert it until it clicks securely . Handle the fiber carefully to avoid damage.
- Power on the ONT: Plug it into a power source and wait 2-5 minutes for the status lights to stabilize .
- 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 indicator lights to confirm a successful connection .
- Configure the router: Access the router's admin panel via a web browser (commo...

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The fiber is threaded through and the hole is sealed around the cable with a wall plate installed on the interior side.

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If you are new to fiber optic network design, we recommend you study the design pages on the FOA

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