

Fiber optic cable or router



Article Overview

To connect fiber optic internet to a router, you need an Optical Network Terminal (ONT) to convert light signals into electrical signals, a fiber-ready router, and high-quality Ethernet cables for optimal performance.

Key Components

- **Optical Network Terminal (ONT):** This device, usually provided by your ISP, converts the incoming fiber optic light signals into electrical signals that your router can interpret .
- **Fiber-Ready Router:** Ensure your router supports gigabit or multi-gig speeds to fully leverage fiber internet. Modern routers like the NETGEAR Nighthawk Tri-Band WiFi 7 (RS700S) or TP-Link AXE300 can handle speeds up to 10 Gbps .
- **Fiber Optic Cable:** Typically a thin yellow cable with SC/APC or SC/UPC connectors, used to connect the ISP's fiber line to the ONT .
- **Ethernet Cable:** A Cat6a or higher cable is recommended to connect the ONT to your router, ensuring minimal speed loss .

Step-by-Step Connection

- **Install the ONT:** Place it near the fiber entry point in your home to reduce signal degradation. Connect the fiber optic cable from the wall outlet to the ONT .
- **Connect ONT to Router:** Use an Ethernet cable to link the ONT's LAN port to the router's WAN or Internet port. Some advanced setups may use SFP+ modules for multi-gigabit connections .
- **Power On Devices:** Turn on the ONT first, wait for the status lights to stabilize, then power on the router. Confirm connectivity via the router's indicator lights .
- **Configure Router Settings:** Access the router's web interface (commonly 192.168....

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What type of cable is this (optic fiber) connecting to router?

I bought an ASUS RT-AX86U Pro and want to use it instead of my ISP router. The problem is that the cable in the

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