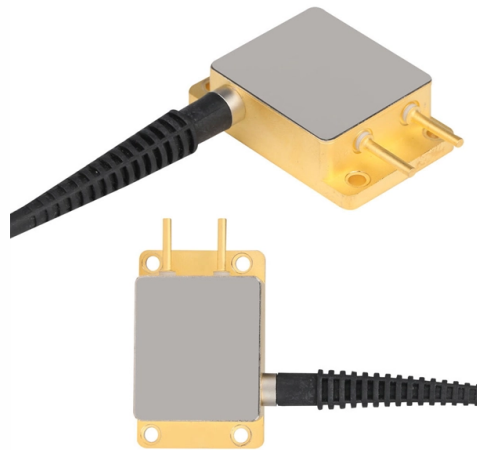


How to connect a router to a home's fiber optic internet connection



AI Overview

To connect a router to a fiber optic internet connection, you must first use an Optical Network Terminal (ONT) to convert the fiber signal to Ethernet, then link it to your router's WAN port.

Step 1: Gather Necessary Equipment

- Optical Network Terminal (ONT):** Provided by your ISP, it converts the 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:** Cat6a or higher is recommended for optimal speeds.
- Router:** Ensure it supports fiber input via WAN or SFP ports and gigabit speeds.

Step 2: Install the ONT

Locate the fiber optic wall outlet where the ISP's fiber enters your home. Connect the fiber optic cable from the wall outlet to the ONT's optical port, handling the cable carefully to avoid damage. Power on the ONT and wait for the status lights to stabilize, which may take a few minutes.

Step 3: Connect the ONT to Your Router

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

Step 4: Configure the Router

Access the router's admin panel via a web browser (commonly 192.168.1.1 or 192.168.0.1). Enter your ISP-provided credentials if required. Update the router firmware and configure Wi-Fi settings, including SSID and password. Optionally, enable Quality of Service (QoS) to prioritize traffic for streaming or gaming.

Step 5: Verify the Connection

Check that devices connected to the router can access the internet. Ensure the ONT's power and data lights are solid green, indicating a stable connection.

Safety and Best Practices

Keep the ONT and router in a dry, ventilated area near a power outlet. Avoid bending the fiber optic cable sharply or touching the fiber tip. Use a surge protector to safeguard your equipment. By following these steps, your router will be properly connected to...

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