

How to set up a router for a 100M fiber optic connection without using one



Overview

How to Set Up a Router or Mesh System All you do is tether the router or first mesh unit to a modem, fiber optical network terminal (ONT), or gateway, load.

Key Takeaways

You can use your own router with a 100M fiber optic connection by connecting it to the ISP-provided Optical Network Terminal (ONT) via Ethernet and configuring the router for fiber settings.

Required Equipment

To set up your own router for fiber internet, you will need:

- **Optical Network Terminal (ONT):** This device converts the fiber optic signal into Ethernet. It is provided by your ISP and cannot be replaced by a standard modem .
- **Compatible router:** Ensure your router has a Gigabit Ethernet WAN port to handle 100M speeds and supports your desired Wi-Fi standard (Wi-Fi 5, 6, or 6e), .
- **Ethernet cable:** To connect the ONT to your router's WAN port .

Connection Steps

- **Confirm ONT Installation:** Make sure your ISP has installed and activated the ONT at your location .
- **Connect the Router:** Use an Ethernet cable to connect the ONT's LAN port to your router's WAN port .

- **Configure Router Settings:** Access your router's admin panel via a web browser (commonly 192.168.1.1). Input any ISP-provided credentials, such as PPPoE username and password, and configure VLAN settings if required (e.g., PPPoE over VLAN7 for some providers), .
- **Update Firmware:** Ensure your router firmware is up to date to optimize performance and security .
- **Set Wi-Fi Security:** Customize your network name (SSID) and set a strong password to secure your connection .
- **Test the Connection:** Verify that your internet speed reaches the expected 100M and that all devices can connect successfully .

Additional Tips

- **Router Compatibility:** Routers designed for DSL or cable connections will not work with fiber; only routers with a Gigabit WAN port are suitable .
- **Wired Connections:** For critical devices, use Ethernet connections to achieve full 100M speeds and lower latency .
- **ISP Restrictions:** Some ISPs may require authentication or specific VLAN settings, so check your provider's instructions .
- **Network Optimization:** Consider enabling QoS, monitoring speed performance, and placing the router in a central location for optimal Wi-Fi coverage . By following these steps, you can successfully use your own router with a 100M fiber optic connection, bypassing the ISP-provided router while maintaining full speed and control over your network.

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