

Article Overview

You can use a wireless router with fiber-to-home internet by connecting it to your modem or Optical Network Terminal (ONT), ensuring the router supports high-speed fiber plans for optimal performance.

How Wireless Routers Work with Fiber Internet

Fiber-to-home (FTTH) delivers internet via an optical fiber directly to your residence, providing extremely fast speeds, often exceeding 1 Gbps . To use Wi-Fi, you connect a wireless router to the modem or ONT. The router then distributes the internet wirelessly to multiple devices, allowing simultaneous connections for smartphones, laptops, smart TVs, and gaming consoles . It is crucial that the router can handle the speed and bandwidth of your fiber plan to avoid bottlenecks.

Key Features to Consider

- o **Wi-Fi Standard:** Wi-Fi 6 or Wi-Fi 7 routers are recommended for fiber connections, as they support multi-gigabit speeds and improved efficiency for multiple devices .
- o **Ethernet Ports:** Multi-gigabit Ethernet ports allow wired devices to achieve full fiber speeds. Some routers support LAN aggregation for even faster wired connections .
- o **Coverage:** For large or multi-story homes, mesh systems or routers with multiple antennas ensure consistent coverage without dead zones .
- o **Device Capacity:** High-end routers can support 150-200 devices simultaneously, which is ideal for smart homes or offices .
- o **Security Features:** Built-in security like NETGEAR Armor or ASUS AiProtection helps protect against malware and unauthorized access .

Recommended Routers for Fiber Internet

- o **NETGEAR Nighthawk RS700S (Wi-Fi 7):** Supports multi-gig speeds, up to 200 devices, and 3,500 sq. ft. coverage, ideal for high-bandwidth activities like 4K/8K streaming and gaming .
- o **ASUS RT-BE96U (Wi-Fi 7):** Offers tri-band support, dual 10 Gbps WAN/LAN ports, and advanced security features, suitable for demanding homes .
- o **TP-Link Archer AX55/AX90 (Wi-Fi 6):** Reliable performance at a lower price point, good for smaller homes or budget-conscious users .
- o **Google Nest Wi-Fi:** Excellent for ease of use and smart home integration, with strong coverage for fiber connections .
- o **Linksys Velop Tri-Band Mesh:** Ideal for whole-home coverage without dead zones, especially in larger or irregularly shaped homes .

Setup Tips



Fiber to the home with wireless router

- o Connect the router to the ONT or fiber modem using an Ethernet cable.
- o Configure the router via its web interface or mobile app.
- o Enable Wi-Fi 6/7 features and security settings.
- o Position the router centrally for optimal coverage or use mesh nodes for larger areas. By selecting a router that matches your fiber plan's speed, home size, and device load, you can fully leverage the high-speed capabilities of FTTH internet while maintaining stable and secure wireless connectivity .

For better results, follow these tips: Place your wireless router in a central location. Place the router as close to the center of your

See when you can use your own router for fiber internet, what equipment is still required,

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The best WiFi routers from brands like Asus, Netgear, and TP-Link provide fast, reliable WiFi throughout your home.



Fiber to the home with wireless router

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