

What router should I connect to the fiber optic cable in the room



AI Overview

For a fiber optic connection, you need a fiber-ready router with Gigabit Ethernet support, a WAN port for an ONT, and modern Wi-Fi standards like Wi-Fi 6 or 7. Key Considerations

1. Fiber Compatibility: Most fiber connections require an Optical Network Terminal (ONT) to convert the fiber signal into data your router can use. Your router should have a WAN port to connect to the ONT, unless it has a built-in fiber interface.
2. Speed Support: Fiber internet can deliver speeds from 100 Mbps to multi-gigabit levels. Choose a router that supports at least Gigabit Ethernet (1000 Mbps), and for high-speed plans, consider routers with multi-gigabit LAN/WAN ports.
3. Wi-Fi Standard: Modern routers with Wi-Fi 6 or Wi-Fi 7 provide faster wireless speeds, better device handling, and lower latency, which is essential for streaming, gaming, and smart home devices.
4. Coverage and Devices: Match the router to your home size and number of devices. For large homes or offices, consider routers with multiple antennas, mesh systems, or tri-band support to avoid dead zones.
5. Additional Features: Look for LAN aggregation, MU-MIMO, OFDMA, and security features like WPA3 or built-in protection against malware and hackers.

Recommended Routers

- Netgear Nighthawk RS700S (Wi-Fi 7): Supports multi-gig fiber plans, covers up to 3,500 sq ft, handles 200 devices, and has multi-gigabit Ethernet ports.
- ASUS ROG GT-AXE16000: Ideal for gaming with ultra-low latency and high throughput.
- TP-Link Archer AX55 or AX90: Budget-friendly options with Wi-Fi 6, reliable speeds, and good coverage.
- Linksys Velop AX4200: Mesh system for whole-home coverage without dead zones.
- Google Nest Wi-Fi: Best for ease of use and smart home integration.

Setup Tips

- Connect the fiber cable to the ONT provided by your ISP.
- Use an Ethernet cable to connect the ONT to the router's WAN port.
- Configu...

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