

What size router is best for a 100Mbps fiber optic connection



Article Overview

For a 100 Mbps fiber optic connection, a router supporting at least 1 Gbps speeds with Wi-Fi 5 (802.11ac) or Wi-Fi 6 (802.11ax) is recommended.

Key Considerations

Speed and Wi-Fi Standard: Even though your plan is 100 Mbps, your router should support 1 Gbps or higher to avoid bottlenecks and ensure stable performance across multiple devices. Routers with Wi-Fi 5 (AC) or Wi-Fi 6 (AX) standards provide faster wireless speeds, better device handling, and improved coverage compared to older Wi-Fi 4 (N) routers . **Bands and Coverage:** A dual-band router (2.4 GHz and 5 GHz) is sufficient for most homes, offering flexibility and reduced interference. The 2.4 GHz band provides longer range, while the 5 GHz band delivers higher speeds for streaming, gaming, or video calls . For larger homes or multiple floors, consider a mesh Wi-Fi system to eliminate dead zones . **Ethernet Ports:** Ensure the router has at least 4 gigabit LAN ports for wired connections to devices like desktops, gaming consoles, or smart TVs. This allows stable, high-speed connections without relying solely on Wi-Fi . **Device Capacity:** For a typical household, a router that can handle 20–30 devices simultaneously is sufficient. If you have many smart home devices or frequent high-bandwidth users, a higher-capacity router may be beneficial . **Additional Features:** Look for routers with Quality of Service (QoS) to prioritize traffic, robust security protocols, and easy management options. Wi-Fi 6 routers also offer better efficiency for multiple devices and improved battery life for connected devices

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