A 100m fiber optic connection requires a gigabit router



Overview

A 100Mbps fiber optic connection can be used with a gigabit routerYes, you can often use your existing router with fiber optic internet, but there are cruc.

Key Takeaways

For a 100M fiber optic connection, a gigabit router is not required for wired speeds but can improve wireless performance and future-proof your network.Wired Network Considerations

For a 100 Mbps fiber connection, the maximum wired speed is limited by the service itself, not the router. Even if you use a gigabit router, the wired LAN speed will not exceed the 100 Mbps cap imposed by your ISP and the optical network terminal (ONT) setup. The main bottlenecks include the WAN port of the ONT, the LAN ports of the router, and the network card of your computer. Therefore, upgrading to a gigabit router will not increase wired speeds beyond the 100 Mbps limit, though it ensures compatibility with higher-speed plans in the future .

Wireless Network Benefits

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A gigabit router can significantly improve wireless network performance. Older routers with Wi-Fi 4 or Wi-Fi 5 may limit wireless throughput, especially for multiple devices. A Wi-Fi 6 or Wi-Fi 6E router provides higher efficiency, better device management, and faster wireless speeds, which is particularly useful if you have smartphones, tablets, or laptops that support these standards . Even on a 100M fiber plan, wireless devices can benefit from reduced latency and improved coverage.

Fiber Compatibility

When selecting a router for fiber, ensure it has a Gigabit Ethernet WAN port to connect to the ONT. Fiber connections do not use traditional modems; the ONT converts optical signals to Ethernet. Routers designed for DSL or cable will not work with fiber. Modern routers with multiple gigabit LAN ports, strong processors, and QoS features help maintain stable performance across all devices .

Future-Proofing

While a gigabit router is not necessary for a 100M plan, it is recommended if you plan to upgrade to higher-speed fiber in the future. Wi-Fi 7 routers, for example, support multi-gigabit speeds and can handle future fiber upgrades without needing replacement .

Summary
• Wired speeds: Gigabit router does not increase 100M fiber wired speeds.

• Wireless speeds: Gigabit router improves Wi-Fi performance and device management.

• Compatibility: Must have a Gigabit WAN port and fiber-ready specifications.

• Future-proofing: Useful if upgrading to faster fiber plans later. In conclusion, a gigabit router is optional for a 100M fiber connection but beneficial for wireless performance and long-term network flexibility.

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In fact, when you are using 100M broadband, changing to a gigabit router can not increase the speed of the wired

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