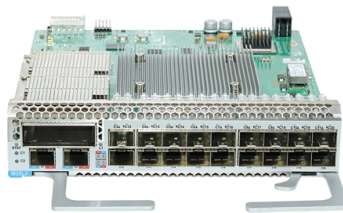


Should I use a 100Mbps or gigabit router for a 100Mbps fiber optic connection



AI Overview

Yes, a 100Mbps fiber optic connection can be used with a gigabit router, but the connection speed will be limited to 100Mbps. Compatibility and Performance A gigabit router is fully compatible with a 100Mbps fiber connection. The router will automatically negotiate the connection speed with your network, so even if the router supports 1Gbps, the actual throughput will be capped at 100Mbps, which is the maximum speed of your fiber plan. This means you won't experience faster internet than your ISP provides, but the router will still manage your home network efficiently.

Benefits of Using a Gigabit Router

- Future-Proofing:** If you upgrade your fiber plan to 1Gbps or higher in the future, your gigabit router will already support the faster speeds without needing replacement.
- Better LAN Performance:** Even with a 100Mbps internet connection, a gigabit router allows faster local file transfers between devices on your home network, such as streaming from a NAS or transferring files between computers.
- Advanced Features:** Gigabit routers often include better Wi-Fi standards (Wi-Fi 6/6E/7), improved range, multiple LAN ports, and features like port aggregation, which can enhance overall network performance even if the internet speed is limited.

Considerations

- Ethernet Cables:** To achieve gigabit speeds internally, use at least Cat5e or Cat6 cables. For a 100Mbps connection, Cat5e is sufficient, but Cat6 is recommended for future upgrades.
- WAN Port Limitations:** Ensure the router's WAN port can handle the fiber connection. Most modern gigabit routers have a 1Gbps WAN port, which is compatible with 100Mbps fiber.
- No Speed Boost:** Using a gigabit router will not increase your internet speed beyond 100Mbps; it only ensures that the router is not a bottleneck for future upgrades or internal network traffic.

Conclusion Using a gigabit router with a 100Mbps...

Article Content

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Contact Us

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