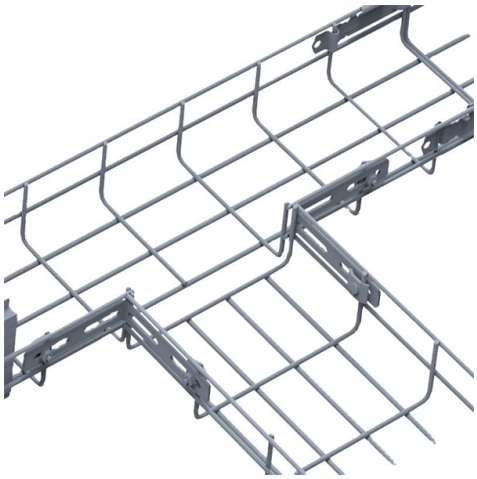
100Mbps router connected to gigabit fiber optic cable



Overview

However, setting up a fiber optic connection to your router can seem daunting if you''re unfamiliar with the process.

Key Takeaways

A 100 Mbps router can work with a gigabit fiber optic connection, but it will limit your internet speed to 100 Mbps, preventing you from fully utilizing the gigabit bandwidth.

Compatibility and Performance

While fiber optic connections can deliver speeds up to 1 Gbps or higher, a 100 Mbps router acts as a bottleneck, capping your maximum speed at 100 Mbps even if your ISP provides gigabit service . This means that for activities like 4K streaming, large file downloads, or multiple devices using the network simultaneously, you won't experience the full potential of your fiber connection. To fully leverage gigabit speeds, a router with Gigabit Ethernet ports and support for high-speed Wi-Fi standards (Wi-Fi 5, Wi-Fi 6, or Wi-Fi 7) is recommended .

Recommended Router Features for Fiber Optic Connections
• Gigabit Ethernet Ports – Ensure the router has at least four 1 Gbps LAN ports for wired devices and a gigabit WAN port to connect to the fiber modem .

• High-Speed Wi-Fi – Wi-Fi 6 or Wi-Fi 7 routers provide faster wireless speeds, better device management, and reduced latency for multiple users .

• Dual-Band or Tri-Band Support – Helps distribute devices across 2.4 GHz, 5 GHz, and 6 GHz bands to reduce congestion .

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• Advanced Features – Look for QoS (Quality of Service), VPN support, and security features like automatic updates and network protection .

• Mesh or FTTR Support – For large homes, mesh networking or fiber-to-the-room (FTTR) setups ensure seamless coverage without speed loss .
Installation Tips
• Connect the fiber modem's LAN port to the router's WAN port using a high-quality Ethernet cable.

• Use CAT5e or CAT6 cables for wired connections to support gigabit speeds.

• Configure the router via its web interface or app, selecting the correct connection type (DHCP or PPPoE) as required by your ISP .

• Position the router centrally for optimal Wi-Fi coverage and consider mesh extenders for larger areas.
Conclusion

Using a 100 Mbps router with a gigabit fiber connection is possible, but it limits your speed to 100 Mbps. For full gigabit performance, invest in a fiber-ready router with gigabit ports and modern Wi-Fi standards. This ensures you can take advantage of high-speed fiber, support multiple devices, and future-proof your home network .

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