

Fiber optic only with router



Article Overview

Yes, you can use your own router with fiber optic internet, provided it has a compatible WAN Ethernet port and supports the speeds of your fiber plan.

How Fiber Internet Works with a Router

Fiber internet delivers data via light signals through fiber-optic cables. Unlike DSL or cable, it does not use a traditional modem. Instead, your ISP installs an Optical Network Terminal (ONT), which converts the fiber signal into an Ethernet connection that can be plugged into your router. This means you do not need a specialized modem-router combo, but your router must have a Gigabit Ethernet WAN port to handle high-speed fiber connections.

Router Compatibility Requirements

To ensure your router works with fiber internet:

- **WAN Port:** Must have a Gigabit Ethernet port to connect to the ONT.
- **Speed Support:** Ensure the router can handle the maximum speed of your fiber plan, especially if it exceeds 1 Gbps.
- **Wi-Fi Standard:** Wi-Fi 6 or 6E is recommended for optimal speed and device management; Wi-Fi 7 routers are emerging for even better performance.
- **Connection Type:** Some ISPs, like Deutsche Telekom, require PPPoE over VLAN7 for authentication. Routers designed for DSL (phone line input) or cable (coaxial input) will not work directly with fiber

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Without an ONT, a Fiber-to-the-Home (FTTH) Internet connection cannot communicate with your router, computers, gaming

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Yes, this is correct. I have fiber optic coming to my ONT outside, which simply connects to a double-ended male fiber

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A wired fiber optic router uses physical Ethernet cables to connect devices to the internet, whereas a wireless fiber

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9 Best Routers For Fiber Optic | Stop Throttling Your Fiber

After analyzing nine models ranging from compact VPN-focused units to enterprise-grade edge routers,

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Does fiber require a modem/router? : r/techsupport

With fiber optics your Optical Network Unit would be your "modem". Fiber optics would go into it and Cat5 or coaxial or telephone

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How to Connect a Fiber Optic Cable to a Router

Connect fiber internet correctly. Learn the essential hardware bridge and sequential steps needed to link the optical

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Routers For Fiber Optic Internet

Routers for Fiber Optic Internet are designed to help you take full advantage of your high-speed connection, delivering a seamless

Contact Us

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