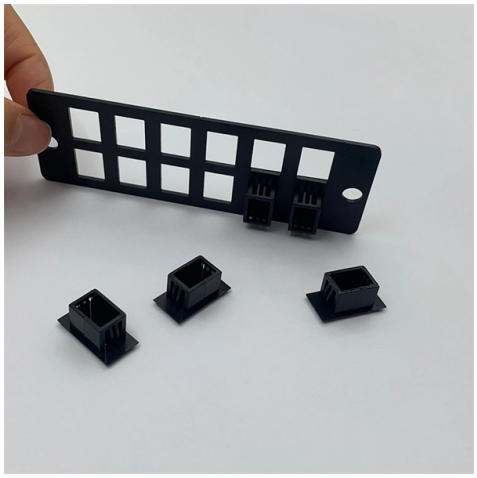
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Fiber optic routers and ADSL routers



Overview

Shop top routers for fiber optic internet at Best Buy. Enjoy fast, reliable Wi-Fi for streaming, gaming, and more in every room.

Key Takeaways

An ADSL router cannot connect directly to a fiber optic line, but it can often be used as a router behind a fiber ONT if it has an Ethernet WAN port.Key Considerations
• Direct Connection Not Possible Fiber optic cables carry data as pulses of light, while ADSL routers are designed for electrical signals over phone lines. You cannot plug a fiber cable directly into an ADSL router because the connectors and signal types are incompatible .

• Use with an ONT Fiber internet requires an Optical Network Terminal (ONT), which converts the light-based fiber signal into a standard Ethernet signal. Your ADSL router can then connect to the ONT via its WAN (Ethernet) port, effectively functioning as a router for your home network .

• Performance Limitations
• Many ADSL routers have older Ethernet ports (10/100 Mbps) and Wi-Fi standards (Wi-Fi 4 or 5), which may limit the speed of your fiber connection, especially if your plan exceeds 100 Mbps .

• For full fiber speeds, a router with a Gigabit WAN port and modern Wi-Fi (Wi-Fi 6 or 6E) is recommended .

• Setup Steps
• Ensure the ONT is installed and active.

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• Connect an Ethernet cable from the ONT to the WAN port of your ADSL router.

• Configure the router settings as needed (VLAN, DHCP, PPPoE) according to your ISP's instructions .

• Optionally, set the ISP-provided gateway to bridge mode if you want the ADSL router to handle all routing functions .

• When to Upgrade If your ADSL router cannot support the speeds of your fiber plan or lacks modern Wi-Fi features, upgrading to a fiber-compatible router ensures optimal performance and better device management .
Summary

While an ADSL router cannot replace the ONT or connect directly to fiber, it can still serve as a router for a fiber connection if it has a compatible Ethernet WAN port. However, to fully utilize high-speed fiber internet, a modern router with Gigabit ports and updated Wi-Fi standards is recommended.

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