

200 Mbps fiber optic cable with a 450 Mbps router



Article Overview

Yes, a 200Mbps fiber optic connection can be used with a 450Mbps router, but the router's higher speed rating will not increase your internet speed beyond 200Mbps.

Compatibility Overview

A fiber optic connection delivers data to your home through an Optical Network Terminal (ONT), which converts light signals into electrical signals that your router can use . The router connects to the ONT via its WAN (Ethernet) port. As long as your router has a standard Ethernet WAN port, it can handle the 200Mbps fiber connection without issues .

Speed Considerations

- **Router Speed vs. Internet Speed:** The 450Mbps rating of your router refers to its maximum wireless or internal network throughput, not the internet speed itself . Since your fiber connection is 200Mbps, the router will simply pass along the full 200Mbps to your devices; it will not increase the internet speed beyond what your ISP provides.
- **Potential Bottlenecks:** If your router's Ethernet ports are at least 100Mbps (Fast Ethernet), it can handle 200Mbps only if the connection is aggregated or the port supports higher speeds. Most modern routers with Gigabit Ethernet (1000Mbps) ports will easily support 200Mbps fiber . Using older routers with only 100Mbps ports may limit wired connections to 100Mbps, even if the fiber provides 200Mbps....

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