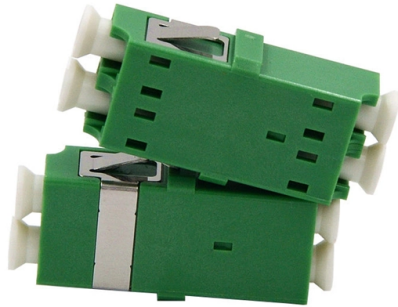


100k fiber optic cable with a 450 router



Article Overview

You can use a 450 Mbps router with a 100 Mbps fiber optic connection, but the router's Wi-Fi speed may limit wireless performance.

Compatibility and Setup

Fiber internet requires an Optical Network Terminal (ONT) provided by your ISP, which converts the fiber signal into an Ethernet connection for your router. Most modern routers, including a 450 Mbps Wi-Fi router, can connect to the ONT via the WAN Ethernet port. Ensure the router has a Gigabit Ethernet WAN port to fully utilize the fiber connection, even if the Wi-Fi speed is lower than the fiber plan.

Steps to Connect:

- Install the ONT: Connect the fiber cable from the wall outlet to the ONT and power it on.
- Connect Router to ONT: Use an Ethernet cable from the ONT's LAN port to the router's WAN port.
- Configure Router: Access the router's admin panel to set up Wi-Fi, security (WPA3 recommended), and any ISP credentials if required.
- Test Connection: Verify internet access and run a speed test to ensure the fiber connection is active.

Performance Considerations

- A 450 Mbps router can handle a 100 Mbps fiber plan without bottlenecking wired connections, but Wi-Fi speeds may be limited to 450 Mbps under ideal conditions

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