300m fiber optic cable with a 100Mbps router



Overview

Simply plug the cable to any fiber port on the device and high speed fiber optic link between two long distance locations can be generated by spending far less time and cost.

Key Takeaways

A 100 Mbps router will limit your 300 Mbps fiber connection to around 100 Mbps, so upgrading to a gigabit-capable router is recommended to fully utilize your fiber speed.

Key Considerations

Speed Limitation: A router with 100 Mbps LAN ports or Wi-Fi capabilities will cap your internet speed at roughly 100 Mbps, even if your fiber plan provides 300 Mbps. This means downloads, streaming, and gaming will not reach the full potential of your fiber connection.

Wi-

Fi Standards: Older routers using Wi-Fi 4 (802. 11n) or Wi-Fi 5 (802. 11ac) may not efficiently handle higher speeds.

For 300 Mbps fiber, a Wi-Fi 5 or Wi-Fi 6 router is recommended to ensure stable wireless performance.

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N Ports: Ensure the router has gigabit Ethernet ports (1 Gbps). A 100 Mbps router typically has 10/100 Mbps ports, which will bottleneck wired connections. Recommended Router OptionsTP-Link AX3000 / AX5400 (Wi-Fi 6): Dual-band routers supporting speeds well above 300 Mbps, suitable for multiple devices and streaming.

NETGEA

R Nighthawk RAX43 / RAX54S (Wi-Fi 6): Handles fiber speeds up to 1 Gbps, with multiple LAN ports and strong coverage.

ASU

S RT-BE55 / RT-AX86U (Wi-Fi 6/7): High-performance routers capable of supporting 300 Mbps or higher fiber plans with low latency and advanced security.

Practical Advice

Upgrade for Full Speed: To achieve 300 Mbps, replace your 100 Mbps router with a gigabit-capable router. Check Device Compatibility: Ensure your devices support the router's Wi-Fi standard to benefit from higher speeds. Consider Coverage: For larger homes, mesh systems or routers with high-gain antennas and beamforming technology improve signal distribution.

Wired Connections: Use gigabit Ethernet for devices requiring maximum speed, such as gaming PCs or streaming devices. Conclusion: Using a 100 Mbps router with a 300 Mbps fiber connection will significantly limit your speed. Upgrading to a Wi-Fi 5/6 router with gigabit LAN ports ensures you can fully utilize your fiber plan, maintain stable connections, and support multiple devices simultaneously.

Article Content

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