

Setting up a 300Mbps router with a 100Mbps fiber optic connection



AI Overview

You can fully utilize a 100Mbps fiber connection with a 300Mbps router, but ensure the router's WAN/LAN ports support at least 100Mbps and proper cabling is used.

Connecting Fiber to Your Router

Optical Network Terminal (ONT): Most fiber connections require an ONT provided by your ISP, which converts the optical signal into an electrical signal your router can use.

Fiber Cable Connection: Plug the fiber optic cable from the wall outlet into the ONT using the correct connector type (SC/APC or SC/UPC).

Router Link: Connect the ONT to your router's WAN port using a high-quality Ethernet cable (Cat5e or Cat6 recommended).

Power and Configuration: Power on the ONT first, then the router. Access the router's admin panel (usually via 192.168.1.1) to configure network settings and ensure the WAN port is set to auto-negotiate or 100Mbps full duplex if your fiber speed is 100Mbps.

Ensuring Full Speed Utilization

Check Router Port Speeds: Some routers have WAN/LAN ports limited to 100Mbps, which can cap your speed even if the router supports 300Mbps Wi-Fi. Verify in the router's admin panel that the WAN port is negotiating at 100Mbps or higher.

Use Proper Cabling: Cat5e or Cat6 Ethernet cables are recommended to avoid speed limitations. Avoid older Cat5 cables, which may restrict throughput.

Firmware Updates: Ensure your router firmware is up to date to fix potential performance issues.

Wi-Fi Considerations: While your router may support 300Mbps, actual Wi-Fi speeds can be lower due to distance, interference, and device capabilities. For multi-floor coverage, consider using wired access points instead of repeaters to maintain speed.

Troubleshooting Common Issues

If your speed tests show only 100Mbps or less, check whether the router's WAN/LAN ports are limited to 100Mbps. Upgrading to a router with gigabit ports may be necessary for future-proofing.

Test speeds directl...

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Question

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My internet should be 1000/1000 Mbps but my speedtest is less

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How to Connect Fiber Optic Cable to Router: A Step-by-Step Guide

However, setting up a fiber optic connection to your router can seem daunting if you're unfamiliar with the process. In this guide, we'll walk you through how to connect a fiber...

I tested this cable without router and get 300mbps in my desktop, but when I connect the cable in my router, the lan and wifi connections are limited to 100mbps.

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Why is my ethernet cable speed is capped at 100 mbps when the

The router was recently changed so it's definitely not the problem, the ethernet cable is Cat5e so it should support up to 1Gb. Cable has been sitting inside wall unmoved for like 8 years so I don't think it's

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What if my Router Speed is capped at 100 Mbps?

If it's still connected at 100 Mbps, try with another Cat5e/6 cable or change the port of your ISP device, where you're connecting the TP-Link router (if possible).

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Website: <https://lwazipm.co.za>

Email: info@lwazipm.co.za

Phone: +27 82 415 6392

Address: 15 Oxford Street, Rosebank, Johannesburg, 2196, South Africa

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