

Can a 450Mbps router meet the requirements of a 100Mbps fiber optic connection



Article Overview

Yes, a 450Mbps router can support a 100Mbps fiber connection, but actual performance depends on the router's LAN/WAN ports and Wi-Fi capabilities.

Wired Connection

If your router has Fast Ethernet ports (100Mbps), it can fully handle a 100Mbps fiber connection over a wired connection without being a bottleneck. The router's theoretical Wi-Fi speed of 450Mbps refers to the maximum wireless link speed, not the actual internet speed. For wired devices, the limiting factor is the LAN/WAN port speed; a 100Mbps port will cap the throughput at 100Mbps, which matches your fiber plan .

Wireless Connection

The 450Mbps rating is based on Wi-Fi 4 (802.11n) or Wi-Fi 5 (802.11ac) standards and represents the maximum link speed under ideal conditions. In practice, distance, interference, and building materials reduce actual speeds significantly. Users often experience 70–90Mbps on Wi-Fi, which is still sufficient for a 100Mbps fiber connection, but may not fully utilize the router's theoretical maximum .

Considerations for Optimal Performance...

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What are the theoretical speed limits of fiber optic, cable and DSL?

These connections utilize coaxial cables, which are made of copper, instead of fiber optic cables, which use small,

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Test: WLAN-Router mit 450 Mbps

Schnellstes WLAN ohne Funkstörungen. COMPUTER BILD hat getestet, ob die neuen Turbo-WLAN-Router mit 450

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Going from 50mbps to 10 gigabit fiber! Do I need a new router?

You can't put a router at the demarc for your wired home, you need a switch with enough ports. Or say you have an entertainment

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Can I Use My Own Router for Fiber Internet? | Mercury Fiber

Key Takeaways: Yes, you can use your own router with fiber internet, as long as it has a Gigabit Ethernet WAN port

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Why Doesn't My Internet Speed Match What I'm Paying For?

Question: Through my ISP, I've contracted for 100 megabits per second of internet speed. The maximum speed that I

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What Internet Speed do I Need

What else do I need when choosing my speed? Now that you've chosen the internet speed that's right for you, it's

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Will a New Router Boost Your Internet? Is Your 100M Fiber Truly

If you've been frustrated with slow internet at home—especially with a 100M fiber connection—you're not alone. Many people wonder

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Do you need a special router for fiber optic internet?

This guide clarifies the requirements for optimal performance, explaining what your existing router can handle and when an upgrade

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So you have 500Mbps-1Gbps fiber and need a router READ THIS FIRST

It's such a frequently asked question over the last few years that we really need a post we can point people to. So your

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Optimize Fiber Internet Speed

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See how much internet speed you need for all your laptops, gaming consoles, phones, and TVs with this bandwidth

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Can I use my existing router with fiber?

While many existing routers can connect to a fiber network, there are several scenarios where upgrading your router is not just

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That "450mbps" is between your system and the router. One of the many lies they foist upon us. Yes, 70-90 is poor.

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Bandwidth Calculator: How Much Do You Need

Start here to find out how much Internet speed you need for streaming, gaming, and all the other smart devices sharing bandwidth on

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Why am I not getting the maximum speed that my router is capable of ...

Your custom configuration is throttling your speeds Most NETGEAR routers feature the ability to configure various

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Broadband Speed Guide

Compare typical online activities with the minimum download speed (Megabits per second, or Mbps) needed for

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What if LAN Speed of the Wi-Fi Router Is Capped at 100 Mbps?

Some customers may report the associated/link speed between their computer and the router is capped at 100 Mbps,

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Why Am I Not Getting Gigabit Speeds?

If you know your router can support gigabit speeds, but you aren't getting the signal strength you should be, try

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Why am I not getting the maximum speed that my router is capable of ...

To prevent your router from "bottlenecking" your network, we recommend using a router that's capable of faster speeds

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Fiber-Optic Cable Bandwidth: Complete Guide

Yes, fiber optic cables have bandwidth limitations, but these are typically determined by terminal equipment (lasers,

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100mbps Fiber vs. 400mbps cable : r/HomeNetworking

Fiber is often synchronous in that a 100Mbps connection is 100Mbps down and 100Mbps up (or sometimes 50Mbps down and

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TP-Link Router Internet Speed: Mbps and Wi-Fi FAQs

The WAN port is always connected with the ISP line, so even if you have a high-speed bandwidth from your ISP, you

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The Best Routers for Fiber Internet: My Expert Picks

However, choosing the best router for fiber optic internet can be challenging, given the many available options. Based

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I'm getting fiber optic internet installed soon, should I ...

Right now you have a modest, mid-tier router that can certainly still be used. If you upgraded it to something else, expect only a very

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It's a fiber optic connection, I'm not sure what you mean by the second part. I chatted with my Internet provider

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What if my Router Speed is capped at 100 Mbps?

Some models like Archer C20 and Archer C50 only support 10/100 Mbps WAN/LAN ports, you can find that in the

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1 Gig Internet Explained: Is It Worth the Upgrade?

Whether you're exploring fiber optic internet plans or upgrading your current setup, 1 Gig can help you do more. Additionally, unlike

Contact Us

For more information, pricing, or custom solutions, please contact us:

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

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

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