

A 100Mbps fiber optic connection can be used with a gigabit router



AI Overview

A 100Mbps fiber optic connection does not require a gigabit router; a router with a 100Mbps WAN port is sufficient, though a gigabit router provides future-proofing and better performance.

Router Requirements for 100Mbps Fiber

For a 100Mbps fiber plan, your router must have a WAN port that supports at least 100Mbps to handle the full speed of your connection. Most modern routers, including Wi-Fi 5 and Wi-Fi 6 models, come with Gigabit Ethernet ports, which are more than sufficient for a 100Mbps plan and allow for faster wired connections to multiple devices. Using a router with a gigabit WAN port will not increase your internet speed beyond 100Mbps, but it ensures that the router will not become a bottleneck if you upgrade to a faster plan in the future.

Benefits of a Gigabit Router

Even though a 100Mbps connection does not require gigabit speeds, a gigabit router offers advantages:

- Future-proofing:** If you upgrade to a 1Gbps fiber plan later, your router can handle the higher speeds without replacement.
- Better LAN performance:** Gigabit LAN ports allow faster file transfers between devices on your local network.
- Improved Wi-Fi performance:** Modern Wi-Fi 6 or Wi-Fi 6E routers with gigabit ports can manage multiple devices efficiently, reducing congestion and latency.

Summary

For a 100Mbps fiber connection, a router with a 100Mbps WAN port is sufficient. However, using a gigabit router is recommended if you want to future-proof your network, improve local network performance, and take advantage of modern Wi-Fi standards. Ensure your router is fiber-compatible and has the appropriate WAN port to connect to your ONT (Optical Network Terminal) provided by your ISP.

Article Content

Can I use my existing router with fiber?

Yes, you can often use your existing router with fiber optic internet, but there are crucial considerations. Understanding compatibility, potential limitations, and when an upgrade is necessary

How is Fiber Internet Installed? Everything You Need to

Explore how fiber optic internet is installed in your home, with step-by-step details on cables, ONTs, routers, and what to expect during the appointment.

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

For wired networks under 100M fiber, it's unnecessary—you won't see improved speeds. But for wireless performance, especially with modern devices, a gigabit router can ...

Do I Need a Gigabit Switch or 10/100Mbps Switch?

Because gigabit switch used in tandem with a gigabit router will allow you to use your local network at speeds up to ten times greater than 10/100Mbps switch. If either of these component

Fibre Broadband Deals

In 2026, fibre optic broadband connections are far more commonplace, so you'd find it difficult not to end up with a fixed fibre broadband connection. If

Complete Guide to Fiber Optic Home Networking

The fiber-optic cable connecting the ONT to the entry point is glass, so it doesn't bend like copper cable. Moving the ONT without professional help risks

Speed Of Fiber Optic | Verizon Business

Learn about the speed of fiber optic internet and its benefits for your business with Verizon Business. Get faster connectivity today.

What is Ethernet?

3. 10 - Gigabit Ethernet Speed: 10 Gbps Media: CAT6a, CAT7, and fiber optic cables Supports long distances (up to 10 km with fiber) Widely used in data

Fiber vs. 5G Home Internet: Which Is Better?

Fiber is so reliable, you can get away with slower max speeds than you might need with a cable or 5G home internet connection. We recommend

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

Get answers to common TP-Link speed questions — router speed, Wi-Fi Mbps, link speed, WAN port limits, and real-world speed test results in this FAQ guide.

Can I use my existing router with fiber?

For those seeking to unlock the full potential of their fiber connection, investing in a modern router with multi-gigabit capabilities and Wi-Fi 6/6E is the recommended path to a fast, reliable, and future-proof

Types of Ethernet Cable

Fiber optics can transmit signals over a very long distance as compared to twisted pairs or coaxial cables. It uses 10BaseF, 100BaseFX,

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9 Best Routers For Fiber Optic | Stop Throttling Your Fiber

Your gigabit fiber plan is being choked by a router that cannot keep up. The bottleneck in your home network isn't the fiber drop — it's the LAN ports and Wi

Fiber Optic Internet Installation Guide | Verizon Business

Follow our fiber optic internet installation guide for businesses and set up high-speed connectivity with ease. Ensure a smooth transition to fiber. Learn more now!

Small Form-factor Pluggable

Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module

100M Optical Fiber Transceiver Vs. Gigabit Optical Fiber Transceiver

Summary: 100M and Gigabit fiber optic transceivers have the same function, they are used to receive light signals, but their bandwidth is different, and Gigabit speed is faster.

100 Gigabit Ethernet

100 Gigabit Ethernet 40 Gigabit Ethernet (40GbE) and 100 Gigabit Ethernet (100GbE) are groups of computer networking technologies for transmitting Ethernet frames at rates of 40 and 100 gigabits

Why is the Gigabit Switch Only 100Mbps? How to Solve It?

Running a Gigabit Ethernet network at only 100Mbps is a common problem. Thankfully, the causes are usually easy to identify and fix, ranging from cable issues to misconfigured settings.

Fiber Internet Provider

Greenlight uses 100% fiber optic infrastructure from the street directly to your home. Fiber transmits data as pulses of light, which means no

10 100 1000 Base T Explained: A Guide to Gigabit Ethernet

These modules allow switches or routers designed for optical transceivers to connect directly to twisted-pair copper networks while maintaining support for 10Mbps, 100Mbps, and 1Gbps Ethernet speeds.

Fiber vs. Cable: Which Internet Type Is Best + Pros and

Compare fiber vs. cable internet speeds, reliability, and costs to find the best network connection type for your needs. Learn the pros and cons in this guide.

Starlink vs. Fiber: Which is Better for Your Home in 2026?

While Starlink is widely available, providing high-speed internet when other options are scarce, if fiber comes to your town, is it worth the investment?

Fiber Optic Cables – Transmitting Mediums at high speed

Fiber optic cables are cables that are made up of tiny glass or plastic fibers. These fibers are extremely thin, allowing them to transmit data over long distances using light signals. They are

Fiber to the Home (FTTH): A Comprehensive Guide

What is Fiber to the Home (FTTH)? Fiber to the home (FTTH) is a broadband internet connection technology that uses fiber optic cable to reach the boundary

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

When selecting a router for fiber optic internet, ensure it is a “fiber compatible router” with a Gigabit WAN port. Most modern Wi-Fi 6 routers will work, but checking for “fiber ready”

Can a gigabit switch be connected to a 100Mbps network cable?

Gigabit network cables are fully compatible with 100Mbps networks. Of course, the transmission rate of 100Mbps network cables is not as high as that of gigabit, so they cannot be upwardly compatible.

Contact Us

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

Website: <https://www.sky-connect.co.za>

Email: info@sky-connect.co.za

Phone: +44 20 7946 0958

Address: 1 Cornhill, London EC3V 3ND, United Kingdom

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