100Mbps fiber optic cable with a 150Mbps router



Overview

Choose the right 100M optical transceiver by checking compatibility, fiber type, wavelength, distance, data rate, connector, and reliability.

Key Takeaways

A 150 Mbps fiber connection may be limited to 100 Mbps due to router port speed, Ethernet cable type, or network configuration.

Key Factors Affecting Speed

Router Port Speed: Many routers, especially older or budget models, have WAN/LAN ports limited to 10/100 Mbps. Even if your fiber plan is 150 Mbps, a 100 Mbps port will cap the speed at 100 Mbps. Ensure your router has gigabit (1000 Mbps) WAN/LAN ports to fully utilize your fiber connection.

Ethernet Cable Type: The cable connecting your ONT (Optical Network Terminal) to the router must support gigabit speeds. Cat5e or Cat6 cables are recommended. Older Cat5 cables may only use 4 wires, limiting throughput to 100 Mbps.

Network Configuration: Check the router's network settings. Some routers may default to 100 Mbps full duplex. You can manually set the WAN port to 1000 Mbps full duplex in the router's advanced settings.

Also, verify that the connected device's network adapter supports gigabit speeds. Distance Considerations: Fiber optic cables can easily handle 100 meters without significant signal loss. The 100m length itself is unlikely to reduce speed, as fiber transmits data via light pulses with minimal attenuation over this distance.

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Troubleshooting Steps

Verify Router Specifications: Confirm your router supports gigabit WAN/LAN ports. Upgrade if necessary. Check Ethernet Cable: Use a Cat5e or Cat6 cable between the ONT and router.

Replace if the cable is old or damaged. Inspect Device Settings: Ensure the connected PC or device network adapter is set to gigabit mode. Router Configuration: Access the router's web interface and set the WAN port to 1000 Mbps full duplex.

Reboot the router after changes. Test Connection: Use a wired connection to test speeds.

Wi-

Fi may not reach full fiber speeds due to interference or router limitations. By addressing these factors, you can ensure your 150 Mbps fiber connection is not artificially limited to 100 Mbps and achieve optimal performance.

Article Content

Complete Guide to Choosing the Right 100M Optical

Choose the right 100M optical transceiver by checking compatibility, fiber type, wavelength, distance, data rate, connector, and reliability.

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).

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.

Complete Guide to Fiber Optic Home Networking | BroadbandSearch

Build a home fiber network for 1-2 Gbps speeds with this complete guide to installation, troubleshooting, and performance.

Best routers for fiber internet 2025: our top picks for fast broadband

To find the best router for fiber internet, we used our expertise to select items based on key specs, such as speeds, coverage, wireless standards, security, weight, and additional features.

Supposed to have Gigabit connection but only get 100mbps on

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Your computer and cable should be fine (I read your driver in here) so I think it could be your routers settings. I''d log into your router and see if it lets you set the speed of the port you''re plugged into to

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I called sky to change TV package and as part of changes they told me they would give free upgrade from Ultra broadband to Fibre 150. On checking it seems there is very little difference.

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 limiteds to 100mbps.

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By using an Ethernet to fiber conversion solution, fiber optic cabling can be used to extend this link over a greater distance. An Ethernet to Fiber Media Converter can also be used where there is high

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Compare fibre and WiFi plans from Safaricom Home, Faiba, Zuku, Airtel, Telkom, Poa, and Liquid. Speeds from 5Mbps to 1Gbps. Find the

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Flash Fiber is PTCL''s premium Fiber-to-the-Home (FTTH) service. It''s the fastest internet in town giving you blazing speeds of up to 100Mbps with

Jio Fiber vs Jio Air Fiber: Speed, Plans & Pricing

Jio AirFiber: Wireless 5G-powered connectivity, rapid deployment, and fixed wireless access capabilities. Jio Fiber: Fiber-optic cable infrastructure,

Internet Speed Test

Test your internet speed instantly with TestMySpeed, the leading broadband speed test. Get real-time results for download, upload, and ping.

Fibre Broadband Deals: Compare in July 2026

Part fibre (or FTTC) broadband uses a mix of modern fibre-optic cables and older copper wires. The condition and length of the copper can affect your

Jio AirFiber 2026: Cable-Free Internet with 1Gbps Speeds, Pricing,

Jio AirFiber is a Fixed Wireless Access (FWA) solution that delivers high-speed internet and home entertainment without the need for traditional fiber-optic cables. While standard broadband

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Test your current internet speed, and find out how fast your broadband wi-fi handles uploads and downloads. See Google Fiber plan options for faster internet.

Fiber Optic Networking Products in Ghana

Jiji .gh 52+ Fiber Optic Networking Products for sale in Ghana From GH¢ 38 Wi-Fi, LAN & enterprise gear Boost your speed today!

Amazon Best Sellers: The most popular items in Routers

FRITZ! Box 5690 Pro (Wi-Fi 7 Premium DSL and Fibre Optic Router with Triband (2.4GHz, 5GHz, 6GHz) up to 18.5Gbps for Fibre Optic & DSL Connections, WLAN Mesh, DECT Base, German

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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