

# Router Fiber Optic Speed



## AI Overview

To fully utilize fiber optic internet, choose a router that supports Wi-Fi 6, 6E, or 7 with multi-gig Ethernet ports for speeds up to 10 Gbps.

**Key Considerations for Fiber Routers**

**Wi-Fi Standard:** Modern fiber connections benefit from Wi-Fi 6, 6E, or 7. Wi-Fi 7 offers the fastest wireless speeds and is ideal for multi-gigabit fiber plans, while Wi-Fi 6E adds the 6 GHz band to reduce congestion in crowded networks.

**LAN Ports and Wired Speeds:** Look for routers with multi-gigabit Ethernet ports. Some high-end models, like the Netgear Nighthawk RS700S, feature 10G LAN/WAN ports and support LAN aggregation, allowing combined ports to reach speeds up to 2 Gbps. A minimum of 1 Gbps LAN ports is recommended for fiber plans of 100 Mbps or higher.

**Coverage and Device Support:** Router range and the number of devices supported are crucial. High-performance routers can cover 3,500+ square feet and handle 200+ devices simultaneously, making them suitable for large homes or offices. Mesh systems, like Linksys Velop AX4200, are ideal for eliminating dead zones.

**Performance Examples:**

- Netgear Nighthawk RS700S (Wi-Fi 7): Supports multi-gig speeds, 8 internal antennas, and up to 10 Gbps wired throughput.
- ASUS RT-BE96U (Wi-Fi 7): Tri-band support with dual 10 Gbps WAN/LAN ports and four 2.5G ports for NAS or workstations.
- TP-Link Archer AX55 (Wi-Fi 6): Budget-friendly, supports gigabit speeds, OFDMA, and MU-MIMO for multiple devices.
- TP-Link Archer AXE75 (Wi-Fi 6E): Tri-band router with 6 GHz support, ideal for crowded networks and multiple devices.

**Additional Features:** Advanced security, parental controls, and QoS (Quality of Service) are important for managing traffic and protecting your network. Some routers include subscriptions for enhanced protection against malware and hackers.

**Summary**

To maximize fiber optic internet speeds: Choose a router with Wi-Fi 6, 6E, or 7. Ensure multi-gig Ethernet ports for wired devices. Match router coverage to your home size and number of devices. Consider mesh systems for whole-home coverage...

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## Contact Us

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