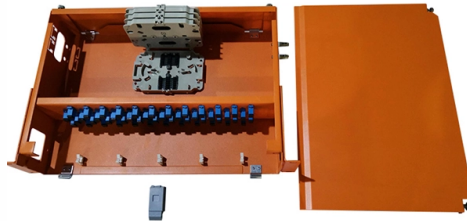


Fiber Optic and Gigabit Routers



Summary of Content

The best routers for fiber internet are multi-gig capable, support Wi-Fi 6 or 7, and offer high-speed wired and wireless connectivity to fully utilize fiber-optic plans.

Key Features of Fiber-Optimized Routers

1. Multi-Gig Ethernet Ports: Fiber internet often delivers speeds above 1 Gbps. Standard Gigabit Ethernet ports max out around 940 Mbps, so routers with 2.5GbE, 5GbE, or 10GbE ports are recommended to avoid bottlenecks and fully utilize your fiber plan . 2. Wi-Fi Standards: Wi-Fi 6 (802.11ax), Wi-Fi 6E, and the latest Wi-Fi 7 (802.11be) routers provide higher throughput, lower latency, and better device management. Wi-Fi 7 routers, like the Netgear Nighthawk RS700S or ASUS RT-BE86U, can handle multi-gig speeds and support advanced features like Multi-Link Operation (MLO) and 4096-QAM modulation . 3. Coverage and Antennas: Tri-band or quad-band routers with multiple internal or external antennas ensure strong coverage across large homes or multi-floor setups. For example, the RS700S covers up to 3,500 sq. ft. and supports up to 200 devices simultaneously . 4. Processing Power: High-speed fiber requires routers with powerful CPUs and sufficient RAM to manage multiple devices, streaming, gaming, and smart home traffic without lag. Routers like the ASUS RT-BE86U feature a 2.6 GHz quad-core CPU and 2 GB RAM for heavy loads . 5. Security and Management: Built-in security suites (e.g., Netgear Armor, TP-Link HomeShield) and features like VPN support, guest networks, and parental controls help protect your network while providing flexibility for multiple users .

Recommended Routers for Fiber Internet

- Netgear Nighthawk RS700S (Wi-Fi 7): Multi-gig capable, 8 internal antennas, supports up to 10 Gbps wired speeds, ideal for gaming, streaming, and large homes .

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