

Router Fiber Optic Selection



Article Overview

Choosing the right router for fiber optic internet requires considering speed, coverage, wireless standards, LAN ports, and device capacity to fully utilize your high-speed connection.

Key Factors to Consider

1. **Speed and Wireless Standard** Fiber internet can deliver gigabit or multi-gigabit speeds, so your router must support high throughput. Look for routers with Wi-Fi 6 (802.11ax) or Wi-Fi 7 (802.11be), which provide faster speeds, lower latency, and better handling of multiple devices compared to older Wi-Fi 5 or 4 standards . Wi-Fi 7 routers, like the NETGEAR Nighthawk RS700S or ASUS RT-BE86U, can reach speeds up to 6.5 Gbps in optimal conditions .
2. **Coverage and Range** Consider the size of your home or office. Dual-band or tri-band routers provide better coverage and reduce interference. Routers with multiple internal or external antennas, beamforming, and MU-MIMO technology ensure stable connections across multiple devices and rooms . For example, the RS700S covers up to 3,500 sq. ft. and supports up to 200 devices .
3. **LAN Ports and Wired Connectivity** Fiber users often need wired connections for gaming, streaming, or workstations. Choose routers with at least 4 Ethernet ports, ideally with 2.5G or 10G WAN/LAN support and LAN aggregation for combining ports to increase bandwidth . This ensures you can fully utilize multi-gigabit fiber plans.
4. **Device Capacity and Performance** High-performance routers can handle multiple devices simultaneously without slowing down. Look for routers with powerful processors (quad-core or higher) and sufficient RAM to manage network traffic efficiently . This is especially important for smart homes or offices with many connected devices.
5. **Security and Additional Features** Modern routers often i...

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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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