

A gigabit router would be better for fiber optic connections



AI Overview

Gigabit routers are generally suitable for fiber optic connections, especially for plans up to 1 Gbps, but multi-gig routers are recommended for higher-speed fiber plans.

Compatibility and Performance

Gigabit routers, which support speeds up to 1 Gbps, can handle most standard fiber optic internet plans effectively, providing both wired and wireless connectivity for home or small office networks . They are compatible with fiber modems and ONTs (Optical Network Terminals) and can deliver stable performance for streaming, gaming, and general internet use . For fiber plans exceeding 1 Gbps, such as 2 Gbps or multi-gigabit services, routers with multi-gig (2.5G, 5G, or 10G) WAN/LAN ports are recommended to fully utilize the available bandwidth . These routers often support advanced Wi-Fi standards like Wi-Fi 6, 6E, or 7, which improve wireless throughput, reduce latency, and allow multiple devices to connect simultaneously without congestion .

Key Considerations

- **Wi-Fi Standard:** Wi-Fi 6 or Wi-Fi 7 routers are ideal for maximizing fiber speeds over wireless connections, especially in homes with many devices .
- **Port Configuration:** Ensure the router has at least one Gigabit WAN port for the fiber connection and multiple Gigabit LAN ports for wired devices. Multi-gig ports are beneficial for future-proofing

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Contact Us

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

Website: <https://ntmmgroup.co.za>

Email: sales@ntmmgroup.co.za

Phone: +27 82 471 2596

Address: Unit 7, Optic Park, 24 High-Tech Lane, Century City, Cape Town, 7441, South Africa

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