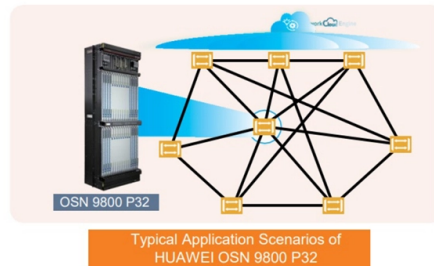


How to choose a wireless router for a 200m fiber optic connection



AI Overview

For a 200 Mbps fiber optic connection, choose a router with Gigabit Ethernet, Wi-Fi 6, dual- or tri-band support, and advanced features like MU-MIMO and QoS to fully utilize your bandwidth. Key Features to Look For:

1. Gigabit Ethernet Ports: Ensure the router has at least one Gigabit WAN port to connect to your ONT (Optical Network Terminal) and multiple Gigabit LAN ports for wired devices. This prevents bottlenecks and allows full utilization of your 200 Mbps fiber speed.
2. Wi-Fi 6 (802.11ax): Wi-Fi 6 routers provide faster speeds, better efficiency, and improved performance in environments with multiple devices. Dual- or tri-band routers help distribute traffic and reduce congestion.
3. MU-MIMO and Beamforming: These technologies allow simultaneous communication with multiple devices and direct Wi-Fi signals toward connected devices, improving coverage and stability.
4. Quality of Service (QoS): QoS prioritizes bandwidth for high-demand applications like streaming, gaming, or video conferencing, ensuring smooth performance even with multiple users.
5. ISP Compatibility: Verify that the router is compatible with your ISP's ONT and supports any required VLAN tagging or PPPoE settings.

Recommended Router Types

High-Performance Wi-Fi 6 Routers: Examples include TP-Link Archer AX6000 or ASUS RT-AX88U, which offer dual-band Wi-Fi, MU-MIMO, and robust security features.

Mesh Wi-Fi Systems: If you have a large home or office, mesh systems like Google Nest Wi-Fi or Eero Pro 6 provide seamless coverage and maintain high speeds across multiple floors.

Future-Proof Options: Even though 200 Mbps is moderate, choosing a router capable of 1 Gbps or higher ensures longevity and supports future upgrades.

Setup Tips

Connect the router to the ONT using the Gigabit WAN port. Place the router centrally to maximize Wi-Fi coverage. Enable dual-band operation and configure QoS...

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Contact Us

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

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

Email: info@araziyahsafety.co.za

Phone: +27 72 418 3692

Address: 123 Rivonia Road, Sandton, Johannesburg, 2196, South Africa

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