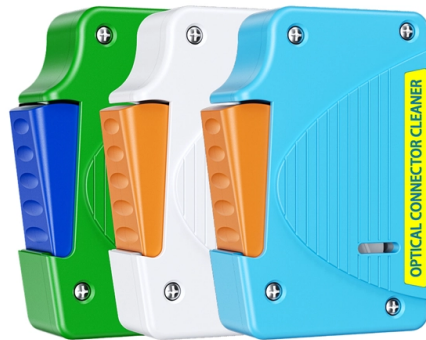


What size router is needed for a 200m fiber optic connection



AI Overview

For a 200-meter fiber optic connection, you should use a high-performance router with multi-gigabit support, preferably Wi-Fi 6 or 7, and consider using additional network equipment like switches or access points to maintain coverage.

Key Considerations

1. **Speed and Bandwidth:** Fiber connections can deliver speeds from 1 Gbps up to multi-gigabit levels. Your router should support at least 1 Gbps throughput, with multi-gigabit LAN/WAN ports if your plan exceeds 1 Gbps. Routers like the Netgear Nighthawk RS700S or ASUS ROG GT-AXE16000 are designed for multi-gig fiber plans and can handle high-speed traffic without bottlenecks . 2. **Wi-Fi Standard:** For optimal wireless performance, choose a router with Wi-Fi 6 (AX) or Wi-Fi 7. These standards provide higher throughput, better device management, and lower latency, which is essential for streaming, gaming, or multiple connected devices . 3. **Coverage and Range:** A 200-meter fiber connection may extend beyond a single building or large property. Standard routers cover 100–150 feet indoors, so for 200 meters, you will likely need wired Ethernet extensions, switches, or mesh Wi-Fi systems to maintain strong connectivity throughout the area . Mesh systems like Linksys Velop AX4200 can help eliminate dead zones. 4. **LAN Ports and Wired Connections:** Ensure the router has enough Ethernet ports for wired devices. A minimum of 4 LAN ports is typical, but for larger setups, consider routers with LAN aggregation or additional switches to distribute the connection efficiently . 5. **Additional Features:** Look for routers with strong internal antennas, security features (WPA3, firewall), and QoS m...

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