

Wireless Router for 200m Fiber Optic Cable

Article Overview

For a 200-meter fiber optic setup, a dual-band Gigabit router or a two-node mesh system ensures full-speed coverage and reliable connectivity.

Key Considerations

1. Router Type:

- Standalone Dual-Band Gigabit Routers (e.g., TP-Link EC220-G5, Intelbras W5 AC1200) are ideal for open layouts or single-floor homes up to 200 m². They provide full 200 Mbps throughput with minimal setup and cost.
 - Two-Node Mesh Systems (e.g., TP-Link Deco X55, Intelbras Twibi Force AX) are recommended for multi-level homes or thick walls, offering seamless coverage and automatic handoff between nodes .
- #### 2. Wi-Fi Standard:
- Wi-Fi 6 (AX) or Wi-Fi 7 (BE) routers are preferred for fiber plans ≥ 200 Mbps, as they handle multiple devices efficiently and reduce latency. Wi-Fi 7 adds Multi-Link Operation (MLO) for simultaneous multi-band transmission, improving speed and stability .
- #### 3. Ethernet Ports:
- Ensure Gigabit WAN/LAN ports (10/100/1000 Mbps) to avoid bottlenecks. Multi-gig ports (2.5G or 10G) are beneficial for future-proofing and connecting NAS or gaming PCs .
- #### 4. Coverage & Placement:
- Coverage claims like "200m" usually refer to ideal open-space conditions. Real-world performance drops with walls or interference. Central placement and elevated positioning improve signal strength. Mesh systems are better for consistent coverage...

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