

# What router should I buy for a 200m fiber optic connection



## AI Overview

For a 200-meter fiber optic connection, you need a high-performance router with multi-gig Ethernet ports, Wi-Fi 6 or 7 support, and strong coverage to maintain speed and stability.

**Key Considerations**

- Speed and Standards:** Your router should support Wi-Fi 6 or Wi-Fi 7 to fully utilize fiber speeds, especially if your plan exceeds 1 Gbps. Wi-Fi 7 routers, like the Netgear Nighthawk RS700S, offer multi-gig speeds and advanced features for gaming, streaming, and large device networks.
- Coverage:** A 200-meter fiber connection may serve a large home, office, or campus. Choose a router with high signal strength and wide coverage, or consider a mesh system like the Linksys Velop AX4200 to eliminate dead zones.
- Wired Connectivity:** Ensure the router has multi-gig Ethernet ports (10G WAN/LAN or LAN aggregation) to handle high-speed wired connections without bottlenecks. A minimum of 4 LAN ports is recommended for connecting desktops, NAS devices, or gaming consoles.
- Device Capacity:** For environments with many devices, select a router that supports MU-MIMO and OFDMA technologies to manage multiple simultaneous connections efficiently.
- Security and Management:** Look for routers with built-in security suites, parental controls, and QoS features to prioritize traffic and protect your network.

**Recommended Routers**

- Netgear Nighthawk RS700S (Wi-Fi 7):** Best for multi-gig fiber, large coverage, and high device count.
- ASUS ROG GT-AXE16000:** Ideal for gaming with ultra-low latency and high throughput.
- TP-Link Archer AX90 or AX55:** Balanced performance and affordability for smaller setups.
- Linksys Velop AX4200 Mesh System:** Best for whole-home coverage without dead zones.
- TP-Link Archer AX21/AX1800:** Budget-friendly Wi-Fi 6 option with solid performance for multiple devices.

**Conclusion**

For a 200-meter fiber optic connection, prioritize a router with...

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