

Router with 100m fiber optic cable

Article Overview

For a 100-meter fiber optic connection, a high-performance router with multi-gig Ethernet ports and Wi-Fi 6 or 7 support is recommended.

Key Considerations

Ethernet Cable Length: Standard Cat6 or Cat6a cables can reliably transmit gigabit speeds up to 100 meters, making them suitable for connecting your fiber ONT to a router over this distance . **Ensure the router has 1G or multi-gig ports** to fully utilize your fiber plan. **Speed and Standards:** Choose a router that supports Wi-Fi 6 (AX) or Wi-Fi 7 for maximum wireless performance. These standards handle multiple devices efficiently and provide high throughput for streaming, gaming, and large file transfers . **LAN Ports:** For wired connections, a router with at least 4 gigabit LAN ports is recommended. Some high-end models offer multi-gig or 10G ports for LAN aggregation, which can combine ports for faster speeds . **Coverage:** Consider the size of your home or office. Routers with strong internal antennas or mesh capabilities ensure stable connectivity across large areas .

Recommended Routers

- o NETGEAR Nighthawk Tri-Band WiFi 7 Router (RS700S)
 - o Supports Wi-Fi 7 and multi-gig speeds
 - o 10G WAN/LAN ports and four 1G LAN ports
 - o Excellent range and performance for large homes or offices
 - o Ideal for gaming, streaming, and AR/VR applications
- o TP-Link AX1800 Archer AX21
 - o Wi-Fi 6 dual-band router
 - o Speeds up to 1.8 Gbps (1200 Mbps on 5 GHz, 574 Mbps on 2.4 GHz)
 - o OFDMA and MU-MIMO for multiple devices
 - o Beamforming technology for extended coverage
- o ASUS Tri-Band Wi-Fi 6 Router (Mesh Capable)
 - o Tri-band with dedicated 5 GHz band for gaming
 - o Eight gigabit ports and mesh network support
 - o Covers up to 5,500 sq. ft., suitable for large homes

Setup Tips

- o Use Cat6a Ethernet cable for the 100-meter run to minimize signal loss.
- o Connect the fiber ONT to the router's WAN port.



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- o Enable QoS (Quality of Service) if multiple devices are connected to prioritize bandwidth.
- o For very large areas, consider a mesh system to maintain strong Wi-Fi coverage throughout the space . By selecting a router with multi-gig ports, Wi-Fi 6/7 support, and strong coverage, you can fully leverage your 100-meter fiber optic connection for high-speed, reliable internet across your home or office.

Fiber Optic Internet Modems - Market Trends and Our Advice Selecting the Ideal Fiber Optic Modem: Useful Tips

TP-Link AX1800 WiFi 6 Router (Archer AX21 V5) - Dual Band Wireless Internet, Gigabit, Easy Mesh, Works with Alexa - A Certified

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The 100m length is a versatile choice, catering to various applications, from small office networks to large-scale

In this guide, we'll delve into the key features, considerations, and top contenders to ensure you make an informed decision,

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