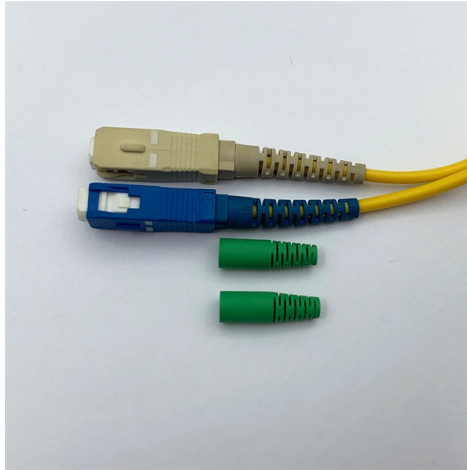


100m fiber optic connection using Xiaomi Router 3



Overview

Xiaomi Router 3 using fiber optic cable In summary, the Xiaomi Mi WiFi Router 3 can be used with fiber optic internet, but it requires an ONT or fiber mode.

Key Takeaways

The Xiaomi Router 3 can support fiber optic connections via its gigabit WAN port, but a 100-meter fiber run requires proper setup with an ONT and Ethernet intermediary for optimal performance. Compatibility and Setup

To connect a 100-meter fiber optic cable to a Xiaomi Router 3, you will need:

- **Fiber Optic Modem (ONT):** Most fiber connections require an Optical Network Terminal (ONT) provided by your ISP. The fiber cable from the wall outlet connects to the ONT, not directly to the router .
- **Ethernet Connection to Router:** Use a standard Ethernet cable to connect the ONT's LAN port to the Xiaomi Router 3's WAN port. The router's gigabit WAN port ensures it can handle speeds of 100 Mbps and above, making it suitable for fiber connections .



- **Router Configuration:** Power on the router, access its admin panel (usually via 192.168.31.1), and enter any ISP credentials if required. Ensure firmware is updated for optimal performance .

Performance Considerations

- **Dual-Band Wi-Fi:** The Xiaomi Router 3 supports 2.4GHz and 5GHz bands, with combined speeds up to 1167 Mbps. The 2.4GHz band provides better coverage over long distances and through walls, while 5GHz offers higher speeds for nearby devices .

- **Long Cable Distance:** While fiber itself can run 100 meters without significant signal loss, the Ethernet cable from the ONT to the router should ideally be Cat6 or higher to maintain gigabit speeds over long distances.

- **Network Stability:** Using a high-quality ONT and Ethernet cable ensures low latency and stable connections, which is critical for streaming, gaming, and large file transfers .

Additional Tips

- **Dual-Band Integration:** Xiaomi routers can combine 2.4GHz and 5GHz under a single SSID, automatically selecting the optimal band for each device .
- **Placement:** Position the router centrally in your home to maximize Wi-Fi coverage, especially if the fiber entry point is far from the main living area.
- **Monitoring:** Check the router's admin panel for real-time speed and device connections to ensure the 100-meter fiber setup is performing as expected. By following these steps, your Xiaomi Router 3 can efficiently handle a 100-meter fiber optic connection, providing high-speed, reliable internet throughout your home.

Article Content

Xiaomi Router 3 using fiber optic cable

In summary, the Xiaomi Mi WiFi Router 3 can be used with fiber optic internet, but it requires an ONT or fiber modem as an

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By following this detailed guide, you've not only learned how to connect fiber optic cable to router properly but also how to optimize

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Is the network cable connected directly to the router's LAN port or through the ethernet wall jack or some other device?

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