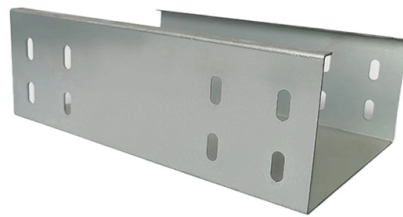


What router is needed for a 100M fiber optic connection from China Telecom



AI Overview

For a 100 Mbps fiber optic connection, a router supporting at least 1 Gbps throughput with Wi-Fi 5 (802.11ac) or Wi-Fi 6 (802.11ax) is recommended.

Key Requirements
Speed and Throughput: Even though your fiber plan is 100 Mbps, it is recommended to use a router capable of handling 1 Gbps or higher to ensure stable performance and future-proofing. Routers with Wi-Fi 5 (AC) or Wi-Fi 6 (AX) standards provide sufficient speed for multiple devices and streaming.
Wi-Fi Standards:
Wi-Fi 5 (802.11ac): Suitable for most homes, supports dual-band (2.4 GHz and 5 GHz) and speeds well above 100 Mbps.
Wi-Fi 6 (802.11ax): Offers better device handling, lower latency, and improved coverage, ideal if you have many connected devices or smart home equipment.
LAN Ports: A router with at least 4 Ethernet LAN ports allows wired connections for devices like PCs, gaming consoles, or smart TVs, ensuring stable speeds.
Coverage and Range: Choose a router with strong coverage to avoid dead zones, especially in larger homes. Dual-band or tri-band routers help manage multiple devices efficiently.
Recommended Router Options
TP-Link AX1800 Archer AX21 – Wi-Fi 6, dual-band, total speed 1.8 Gbps, 4 LAN ports, suitable for streaming and gaming.
NETGEAR Nighthawk Tri-Band Wi-Fi 7 Router (RS700S) – High-end option with Wi-Fi 7, multiple LAN ports, excellent range, ideal for heavy usage or small office setups.
Other Wi-Fi 5/6 routers – Any modern router labeled AX or AC with gigabit LAN ports will work efficiently for a 100 Mbps fiber connection.
Additional Considerations
ONT Requirement: China Telecom typically provides an Optical Network Terminal (ONT) to convert fiber signals. Your router connects to the ONT via Ethernet.
Future-Proofing: Even though 100 Mbps is modest, using a gigabit-capable router ensures compatibility with potential future upgrades.
Security Features: Look...

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