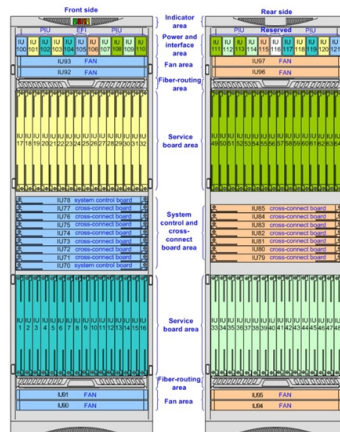


Using a gigabit router with a 50m fiber optic connection from China Telecom



AI Overview

You can use a gigabit router with China Telecom's fiber connection, but proper configuration and compatible hardware are essential to achieve full gigabit speeds. Router and Connection Requirements To fully utilize a gigabit fiber connection, your router must support gigabit WAN and LAN ports and ideally WiFi 6 or WiFi 7 for wireless devices. For wired connections, use Cat6 Ethernet cables to maintain speeds up to 1 Gbps over 50 meters; older Cat5 cables may limit throughput. Connection Types China Telecom fiber typically uses PPPoE for authentication, requiring a username and password provided by the ISP. Some setups may also require VLAN tagging, depending on the local network configuration. If your router supports PPPoE and VLAN configuration, you can connect it directly to the ONT (Optical Network Terminal) provided by China Telecom. Setup Steps Connect the ONT to your router's WAN port using a Cat6 Ethernet cable. Configure the WAN connection on your router: Select PPPoE and enter your China Telecom credentials. If required, set the VLAN ID as specified by China Telecom. Verify the connection by checking the router's status page; a stable link indicates proper configuration. Optimize WiFi placement: Place the router centrally to reduce signal loss over distance, especially for 50m coverage areas. Performance Tips For devices requiring maximum speed, prefer wired connections over WiFi. Ensure the router's WAN port speed matches or exceeds 1 Gbps; otherwise, the connection will be bottlenecked. If using a router with integrated fiber modem capabilities, you may connect directly to the fiber socket, bypassing the ONT, but only if the router supports China Telecom's fiber standard. Considerations Some ISPs, including China Telecom, may restrict the use of third-party ONTs, meaning you must use the ISP-provided ONT and connect your router b...

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