Can the router be connected to fiber optic cable China Telecom



Overview

Hooking up my router to China Telecom thingy : r/shanghai If it's a fiber-optic cable, I assume it's only got WiFi then?

In that case, like the other guys.

Key Takeaways

A router cannot connect directly to a fiber optic cable; you need an Optical Network Terminal (ONT) to convert the fiber signal into an Ethernet signal your router can use.

Key Components Required

Optical Network Terminal (ONT): Provided by China Telecom, the ONT converts the incoming optical signal from the fiber into an electrical signal compatible with standard routers. Fiber Optic Cable: Typically single-mode with SC/APC or SC/UPC connectors, supplied by your ISP. Router: A standard router with a WAN or SFP port to receive the Ethernet signal from the ONT.

Ensure it supports gigabit speeds to fully utilize fiber performance. Ethernet Cable: Cat5e or Cat6 cable to connect the ONT to the router's WAN port.

Step-by-



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Step Connection Process

Install the ONT: Locate the fiber wall outlet where China Telecom's fiber enters your home. Connect the fiber optic cable from the wall outlet to the ONT's optical port. Power on the ONT and wait for the status lights to stabilize.

Connect ON

T to Router: Use an Ethernet cable to link the ONT's LAN port to your router's WAN port. This allows the router to receive the converted electrical signal. Power Up and Configure Router: Turn on the router and access its admin panel via a web browser.

Enter any ISP-provided credentials if required. Ensure the router is configured to handle the high-speed fiber connection. Verify Connection: Check the router's indicator lights and test internet connectivity to confirm a successful setup.

Important Notes

Direct Connection Not Possible: Standard routers cannot interpret optical signals directly; the ONT is essential for signal conversion. Router Compatibility: Some high-end routers have SFP ports that can accept fiber modules, but for most home setups, the ONT-to-Ethernet method is standard. Placement: Position the ONT close to the fiber entry point to minimize signal loss and maintain optimal performance.

By following these steps, you can successfully connect a router to a China Telecom fiber optic line, ensuring high-speed, low-latency internet throughout your home or office.

Article Content

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If it''s a fiber-optic cable, I assume it''s only got WiFi then? In that case, like the other guys said, you can set up a wireless bridge. dd-wrt/OpenWRT can do that pretty easily, you can configure the existing

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