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Configuring a Huawei Router with Fiber Optic Fiber



Overview

However, setting up a fiber optic connection to your router can seem daunting if you''re unfamiliar with the process.

Key Takeaways

Huawei fiber routers can be configured via web interface, AI Life app, or SFP modules, with proper WAN, VLAN, and Wi-Fi settings for full fiber connectivity.Basic Setup Steps
• Physical Connections
• Connect the WAN port of your Huawei router to your fiber modem or ONT using an Ethernet cable. If your router has self-adaptive ports, you do not need to distinguish between WAN and LAN ports .

• Connect your computer or phone to the router's default Wi-Fi network (SSID printed on the router) or via Ethernet.

• Power on the router.

• Accessing the Router Interface
• Open a browser and enter the default IP address (found on the router label) to access the web-based management page .

• Alternatively, use the AI Life app on your phone, select CONFIGURE, then GET STARTED to begin setup .

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• Internet Configuration
• The router may auto-detect the Internet access mode. If not, manually select DHCP.

• Enter your broadband account and password provided by your ISP.

• Configure IP address, subnet mask, default gateway, and DNS servers if required .

• For fiber connections requiring VLAN, enable VLAN settings and enter the VLAN ID provided by your ISP .

• Wi-Fi and Security Setup
• Set a custom Wi-Fi name (SSID) and password.

• Set a login password for the router's web interface to secure management access .

Advanced Fiber Settings
• SFP GPON Modules: If using a Huawei SFP like MA5671A, ensure the SFP is compatible with your router and ISP. The SFP converts optical signals to Ethernet for the router .

• Combo Ports: Some Huawei routers have combo ports that can operate in either optical or electrical mode. By default, they work in electrical mode. To switch to optical mode, enter system view and run combo enable fiber on the interface. To revert, use undo combo enable fiber . Only one mode can operate at a time.
Connecting Devices
• Wired devices: Connect computers, set-top boxes, or other Ethernet devices to the router's LAN ports.

• Wireless devices: Connect phones, tablets, and laptops to the configured Wi-Fi network .
Tips
• Always save configuration changes after setup.

• For Huawei Wi-Fi Mesh systems, follow the cascading instructions to link secondary routers.

• Verify the SFP transceiver type and distance support to ensure stable fiber connectivity . Following these steps ensures your Huawei router is properly configured for fiber optic internet, with secure Wi-Fi and correct VLAN or SFP settings.

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