

HUAWEI H112-372

Huawei 5G CPE Pro H112-372 User Manual

Model: H112-372

1. INTRODUCTION

The Huawei 5G CPE Pro H112-372 is a high-performance wireless gateway designed to provide ultra-fast internet connectivity by converting 5G/4G mobile network signals into Wi-Fi and wired Ethernet connections. This device supports both 5G and 4G networks, offering speeds up to 2.33Gbps for downloads. It is equipped with dual-band Wi-Fi (2.4G/5G) and multiple Gigabit Ethernet ports, making it suitable for home and small office environments requiring robust and reliable internet access.

2. SAFETY INFORMATION

- Do not expose the device to extreme temperatures, direct sunlight, or dusty environments.
- Keep the device away from water, fire, and flammable materials.
- Use only the original power adapter provided with the device.
- Do not attempt to disassemble or modify the device. This will void the warranty.
- Ensure proper ventilation around the device to prevent overheating.
- Avoid placing the device near strong electromagnetic fields.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x Huawei 5G CPE Pro (H112-372)
- 1 x LAN Cable
- 1 x Quick Start Guide (English)
- 1 x Switching Power Adaptor (12V/2A)

4. PRODUCT OVERVIEW



Figure 4.1: Front view of the Huawei 5G CPE Pro H112-372, showing the HUAWEI logo, 5G and 4G indicator lights, Wi-Fi indicator, and the H button.

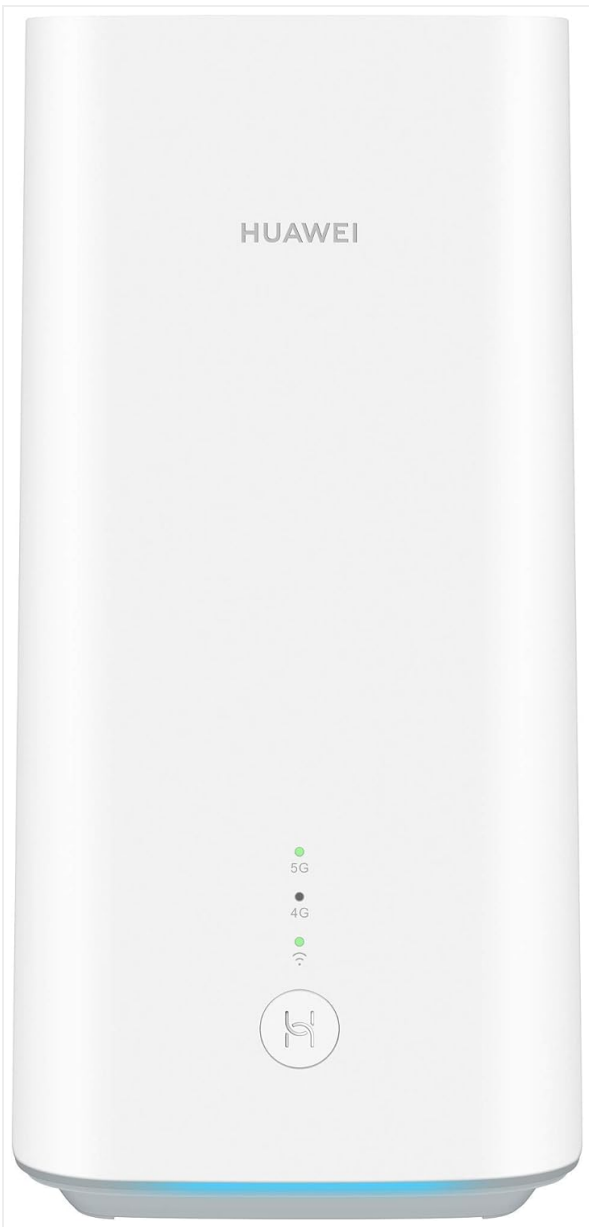


Figure 4.2: Side view of the Huawei 5G CPE Pro H112-372, highlighting its sleek, white design.



Figure 4.3: Top view of the Huawei 5G CPE Pro H112-372, featuring an embossed '5G' logo.

4.1. LED Indicators

- **5G Indicator:** Indicates 5G network status.
- **4G Indicator:** Indicates 4G network status.
- **Wi-Fi Indicator:** Shows Wi-Fi status.

4.2. Ports and Buttons

- **Power Port:** Connects to the power adapter.
- **LAN/WAN Port (Gigabit):** Connects to a computer or other network devices, or to an external modem/router for WAN connectivity.
- **LAN Port (Gigabit):** Connects to a computer or other network devices.
- **SIM Card Slot (Nano-SIM):** Insert your Nano-SIM card here.
- **External LTE Antenna Ports (TS-9):** Two ports for optional external LTE antennas to improve signal reception.
- **H Button:** Used for WPS connection or to pair with other Huawei HiLink devices.
- **Reset Button:** Located in a small pinhole. Press and hold for 3 seconds to restore factory settings.

5. SETUP

5.1. Inserting the SIM Card

1. Ensure the device is powered off.
2. Locate the SIM card slot on the device.
3. Insert a Nano-SIM card into the slot with the gold contacts facing down and the notched corner aligned correctly. Push until it clicks into place.
4. To remove the SIM card, gently push it in again until it springs out.

5.2. Connecting Power

Connect the provided power adapter to the power port on the device and then plug the adapter into a power outlet. The device will automatically power on.

5.3. Initial Configuration

You can configure the device using either the Web UI or the HUAWEI SmartHome App.

Using the Web UI:

1. Connect your computer to the CPE Pro via Wi-Fi or an Ethernet cable. The default Wi-Fi name (SSID) and password are on the label at the bottom of the device.
2. Open a web browser and enter the default IP address (usually 192.168.8.1) in the address bar.
3. Follow the on-screen instructions of the setup wizard to configure your internet connection and Wi-Fi settings.

Using the HUAWEI SmartHome App:

1. Download the HUAWEI SmartHome App from your device's app store (iOS or Android).
2. Connect your smartphone to the CPE Pro's Wi-Fi network.
3. Open the app and follow the instructions to add and configure your device.

6. OPERATING THE DEVICE

6.1. Connecting to Wi-Fi

To connect your devices (smartphones, laptops, tablets) to the CPE Pro's Wi-Fi network:

1. On your device, search for available Wi-Fi networks.
2. Select the Wi-Fi network name (SSID) displayed on the CPE Pro's label.
3. Enter the Wi-Fi password (Key) found on the same label.

The CPE Pro supports dual-band Wi-Fi (2.4GHz and 5GHz) concurrently, allowing for flexible connections and optimized performance for various devices.

6.2. Connecting via Ethernet Cable

For wired connections, use an Ethernet cable to connect your computer or other network devices to one of the Gigabit LAN ports on the CPE Pro.

6.3. Advanced Features

- **VPN Client:** The device supports PPTP and L2TP VPN client modes, allowing you to establish secure connections to VPN servers.
- **VPN Pass-through:** Enables VPN traffic to pass through the router.
- **External Antenna Support:** Utilize the two TS-9 ports for external LTE antennas to enhance signal strength in areas with weak cellular coverage.

7. MAINTENANCE

7.1. Firmware Updates

Regularly check for and install firmware updates through the Web UI or HUAWEI SmartHome App to ensure optimal performance, security, and access to new features.

7.2. Restoring Factory Settings

If you encounter persistent issues or wish to reset all settings, you can restore the device to its factory defaults:

1. With the device powered on, use a pin or straightened paperclip to press and hold the Reset button (located in a small pinhole) for approximately 3 seconds.
2. Release the button when the indicators flash. The device will restart with factory default settings.

7.3. Cleaning the Device

Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosols.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No internet connection.	SIM card not inserted correctly, no network signal, incorrect APN settings, or service provider issue.	Ensure SIM card is properly inserted. Check network signal strength via indicators. Verify APN settings in Web UI. Contact your service provider.
Slow Wi-Fi speed.	Interference, too many connected devices, device too far from router, or outdated firmware.	Move closer to the router. Reduce number of connected devices. Try changing Wi-Fi channel in Web UI. Update firmware.
Cannot access Web UI.	Incorrect IP address, network connection issue, or browser cache.	Ensure you are using the correct IP address (192.168.8.1). Clear browser cache. Try a different browser or device.
Device overheating.	Poor ventilation or prolonged heavy use.	Ensure adequate airflow around the device. Do not cover ventilation holes. Place in a cool, well-ventilated area.

9. SPECIFICATIONS

Feature	Description
Model	H112-372
Dimensions (L x W x H)	4.21 x 3.9 x 8.46 inches
Weight	3.56 pounds
5G Operating Frequency	TDD: n41(2500)/n77(3300~3800)/n78(3500)/n79(4800~4900)
4G LTE FDD Operating Frequency	B1, B3, B5, B7, B8, B20, B28, B32
4G LTE TDD Operating Frequency	B34, B38, B39, B40, B41, B42, B43
Max. Download Speed (5G)	Up to 2.33Gbps
Max. Upload Speed (5G)	Up to 650Mbps
Wi-Fi Standard	802.11a/b/g/n/ac
Wi-Fi Frequency Band	2.4G/5G Dual Band Concurrently
Max. Wi-Fi Users	Up to 64
Ethernet Ports	1 x Gigabit LAN/WAN, 1 x Gigabit LAN (RJ45)
SIM Card Slot	1 x Nano-SIM
External Antenna Ports	2 x TS-9
VPN Support	VPN Client (PPTP, L2TP), VPN Pass-through
Management	Web UI, HUAWEI SmartHome APP (iOS or Android)

10. WARRANTY AND SUPPORT

This Huawei product is covered by a limited warranty. Please refer to the warranty card included in your package for specific terms and conditions, including warranty period and coverage details. For technical support, troubleshooting assistance, or service requests, please visit the official Huawei support website or contact their customer service hotline. Keep your purchase receipt as proof of purchase for warranty claims.

Note: The Huawei 5G CPE Pro H112-372 does NOT support most of USA 5G/4G SIM cards. It primarily supports 4G SIM cards globally, with 5G band support for regions including Europe, Middle East, China, Africa, Australia, Austria, Brazil, Hong Kong, Japan, Maldives, New Zealand, Philippines, Russia, South Korea, Thailand, and Singapore (as of June 2020). Please verify compatibility with your local network provider before use.