HUAWEI B890-66

Huawei B890 4G LTE Wireless Gateway Mobile Router

User Manual

1. Introduction

The Huawei B890 4G LTE Wireless Gateway is a versatile mobile router designed to provide high-speed internet access via 4G LTE networks. It supports up to 32 users simultaneously and offers a maximum download speed of 100 Mbps. This device integrates cellular connectivity with Wi-Fi and Ethernet capabilities, making it suitable for home or small office environments. It also includes a phone jack for voice services.

Important Note: This device is designed for use in the Americas. However, specific compatibility with certain carriers or regions, including parts of the USA, may vary. Please verify network band compatibility with your service provider before use.

2. Safety Information

- Always handle the device with care. Avoid dropping or subjecting it to strong impacts.
- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Use only the original power adapter provided with the device.
- Keep the device away from water and other liquids.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified service personnel.
- Ensure proper ventilation around the device to prevent overheating.

3. Package Contents

Verify that all items are present in your package:

- Huawei B890 4G LTE Wireless Gateway Router
- User Manual (this document)
- Power Adapter (110-220v)
- American Adapter (if applicable)



Figure 3.1: Front view of the Huawei B890 4G LTE Wireless Gateway retail box, showing the device and a person using a laptop.

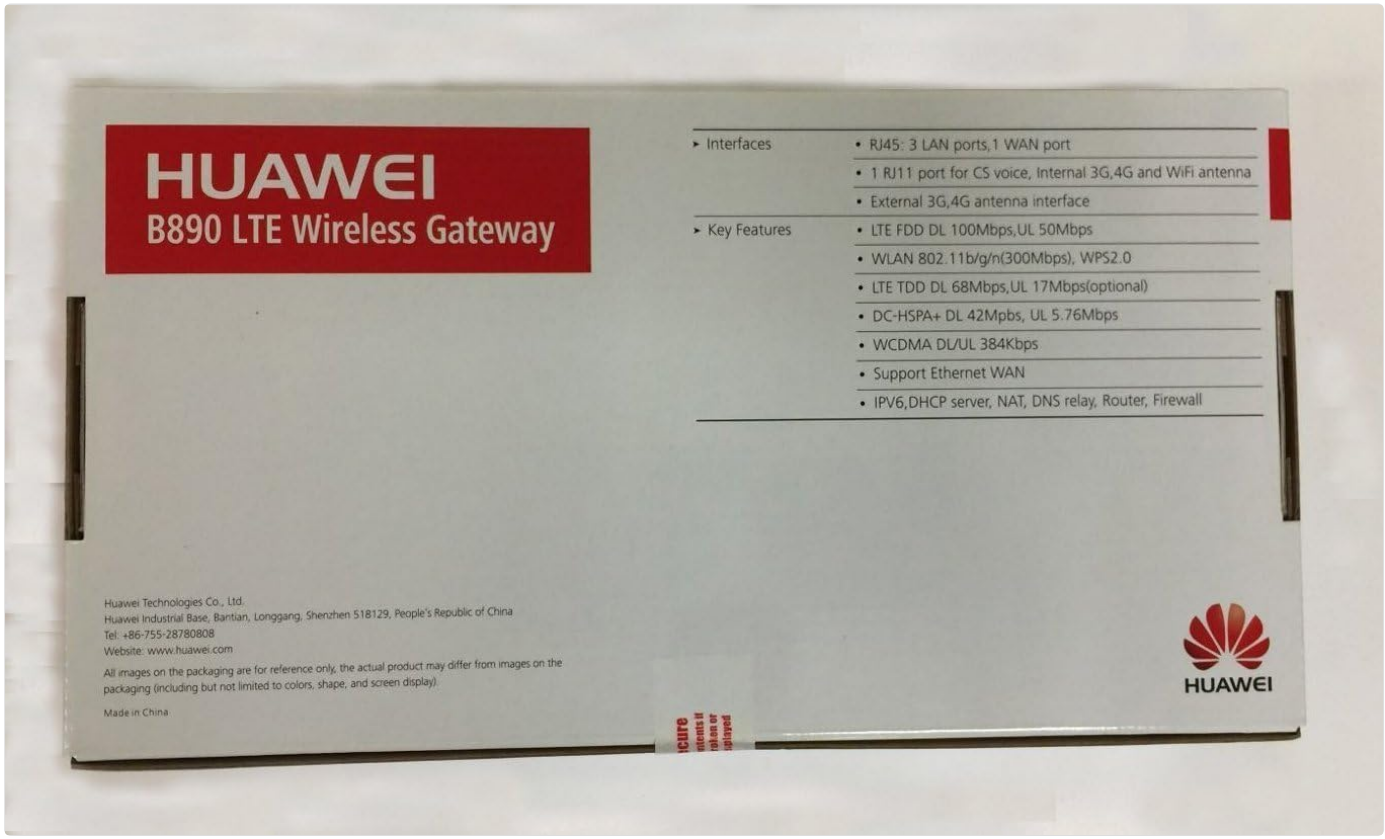


Figure 3.2: Back view of the Huawei B890 4G LTE Wireless Gateway retail box, listing technical specifications such as interfaces (RJ45, RJ11), key features (WLAN, LTE FDD/TDD, DC-HSPA+, WCDMA), and support for Ethernet WAN, IPv6, DHCP, NAT, DNS relay, Router, and Firewall.

4. Device Overview

4.1 Front Panel



Figure 4.1: Front view of the Huawei B890 router, displaying the power, network mode, Wi-Fi, LAN, signal strength, and WPS indicators.

The front panel features several LED indicators:

- **Power Indicator:** Shows the power status of the device.
- **Network Mode Indicator:** Indicates the current network connection type (e.g., 4G, 3G).
- **Wi-Fi Indicator:** Shows the status of the Wi-Fi network.
- **LAN Indicator:** Indicates activity on the Ethernet LAN ports.
- **Signal Strength Indicators:** Multiple LEDs to show the strength of the cellular signal.
- **WPS Indicator:** Shows the status of Wi-Fi Protected Setup.

4.2 Rear Panel

The rear panel contains various ports and buttons:

- **SIM Card Slot:** For inserting your cellular SIM card.
- **Power Port:** Connects to the power adapter.
- **LAN Ports (RJ45):** Four Ethernet ports for wired connections.
- **WAN Port (RJ45):** One Ethernet port for connecting to an external internet source (e.g., DSL/Cable modem).
- **Phone Port (RJ11):** For connecting a standard analog phone.
- **External Antenna Ports:** For connecting optional external 3G/4G antennas.
- **Reset Button:** Used to restore factory default settings.

5. Setup

5.1 Inserting the SIM Card

1. Ensure the device is powered off.
2. Locate the SIM card slot on the rear panel.
3. Insert your standard-sized SIM card into the slot with the gold contacts facing down and the notched corner oriented correctly. Push until it clicks into place.
4. To remove, gently push the SIM card inward until it springs out.

5.2 Connecting the Power Adapter

1. Connect one end of the power adapter to the power port on the rear of the router.
2. Plug the other end of the power adapter into a suitable electrical outlet.

3. The Power Indicator on the front panel will light up.

5.3 Initial Network Connection

1. After powering on, wait for the device to boot up. The Network Mode Indicator will show the connection status.
2. The Signal Strength Indicators will illuminate to show the cellular signal strength. For optimal performance, place the router in an area with good signal reception.
3. If the Network Mode Indicator does not show a stable connection, you may need to configure the Access Point Name (APN) settings via the web management interface.

6. Operating the Device

6.1 Connecting Devices via Wi-Fi

1. Ensure the Wi-Fi Indicator on the front panel is lit.
2. On your Wi-Fi enabled device (laptop, smartphone, tablet), search for available Wi-Fi networks.
3. Select the network name (SSID) of your Huawei B890 router. The default SSID and Wi-Fi key are usually printed on a label on the bottom or back of the device.
4. Enter the Wi-Fi key when prompted.
5. Your device should now be connected to the internet.

6.2 Connecting Devices via Ethernet

1. Connect one end of an Ethernet cable to a LAN port on the rear of the Huawei B890 router.
2. Connect the other end of the Ethernet cable to the Ethernet port on your computer or other network device.
3. The corresponding LAN Indicator on the front panel will light up, indicating a successful wired connection.

6.3 Accessing the Web Management Interface

The web management interface allows you to configure advanced settings for your router.

1. Connect your computer to the router via Wi-Fi or Ethernet.
2. Open a web browser (e.g., Chrome, Firefox, Edge).
3. In the address bar, type the default IP address of the router (commonly192.168.1.1 or 192.168.8.1) and press Enter. Refer to the label on your device for the exact IP address.
4. Enter the default username and password when prompted. These are usuallyadmin for both, but check the device label for specifics.
5. You can now access various settings such as Wi-Fi name and password, APN settings, network mode, and security features.

6.4 Using the Phone Port

The Huawei B890 includes an RJ11 port for connecting a standard analog telephone, allowing you to make and receive calls over the cellular network, depending on your SIM card's plan.

1. Connect your analog phone to the RJ11 port on the rear of the router using a phone cable.
2. Ensure your SIM card supports voice services.
3. You can now use the connected phone as you would a regular landline phone.

7. Maintenance

7.1 Cleaning the Device

To maintain the device, periodically wipe it with a soft, dry cloth. Do not use liquid cleaners or aerosol sprays.

7.2 Firmware Updates

Periodically check the Huawei support website or the router's web management interface for available firmware updates. Keeping your firmware updated ensures optimal performance and security.

7.3 Resetting the Device

If you encounter persistent issues or forget your login credentials, you can reset the router to its factory default settings.

1. With the router powered on, locate the Reset button on the rear panel (it may be recessed).
2. Use a pointed object (e.g., a paperclip) to press and hold the Reset button for approximately 5-10 seconds.
3. Release the button when the indicators flash. The router will restart with factory default settings.

8. Troubleshooting

- **No Power:** Ensure the power adapter is securely connected to both the router and the electrical outlet. Try a different outlet.
- **No Internet Connection:**
  - Check the Network Mode Indicator. If it's red or off, there might be no cellular signal or an issue with the SIM card.
  - Verify the SIM card is correctly inserted and active with your service provider.
  - Access the web management interface to check APN settings. Ensure they match your carrier's requirements.
  - Relocate the router to an area with better cellular signal.
- **Slow Internet Speed:**
  - Check signal strength indicators. Low signal can lead to slow speeds.
  - Reduce the number of connected devices or active applications.
  - Consider connecting external antennas if signal is consistently weak.
- **Cannot Connect to Wi-Fi:**
  - Ensure the Wi-Fi Indicator is on.
  - Verify you are entering the correct Wi-Fi key.
  - Restart the router and your Wi-Fi device.
- **Cannot Access Web Management Interface:**
  - Ensure your device is connected to the router's network.
  - Verify the IP address entered in the browser is correct.
  - Clear your browser's cache or try a different browser.
  - If you forgot the password, perform a factory reset (Section 7.3).

9. Specifications

Feature	Description
Model Number	B890-66
Dimensions (L x W x H)	8.74 x 6.34 x 1.89 inches (22.2 x 16.1 x 4.8 cm)
Item Weight	1.17 pounds (0.53 kg)
Connectivity Technology	Wi-Fi, USB, Ethernet (LAN/WAN), Cellular (4G LTE)
Wireless Communication Standard	802.11bgn (2.4 GHz)
Frequency Band Class	Single-Band
Max Download Speed	100 Mbps (LTE FDD DL)
Max Upload Speed	50 Mbps (LTE FDD UL)
Supported Users	Up to 32 Wi-Fi users
Interfaces	3 x RJ45 LAN ports, 1 x RJ45 WAN port, 1 x RJ11 phone port, External 3G/4G antenna interface
Special Feature	WPS (Wi-Fi Protected Setup)
Included Components	Router, Manual, Power Adapter (110-220v), American Adapter

10. Warranty and Support

10.1 Warranty Information

Please refer to the warranty card included with your product for detailed warranty terms and conditions. Typically, Huawei products come with a limited manufacturer's warranty covering defects in materials and workmanship for a specified period from the date of purchase.

10.2 Technical Support

For technical assistance, troubleshooting, or further inquiries, please visit the official Huawei support website or contact their customer service. Keep your product model number and serial number ready when seeking support.

Note: Product specifications and features are subject to change without prior notice.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question