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HUAWEI B310S-22

Huawei B310S-22 4G LTE Router User Manual

Model: B310S-22 | Brand: HUAWEI

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of your Huawei B310S-22 4G LTE Router. Please read this manual carefully before using the device to ensure proper and safe operation.
The Huawei B310S-22 is a high-performance 4G LTE router designed to provide high-speed internet access via a cellular network. It supports Wi-Fi connectivity for multiple devices and includes an Ethernet port for wired connections, as well as an RJ11 port for voice services.



Figure 1: Front view of the Huawei B310S-22 4G LTE Router, showing its compact design and indicator lights.

2. Package Contents

Verify that all the following items are included in your product package:

- Huawei B310S-22 4G LTE Router
- Power Adapter (Charger)
- Ethernet Cable (Data Cable)
- Quick Start Guide (not included in this digital manual)

3. Product Features

The Huawei B310S-22 Router offers a range of features for robust network connectivity:

- **4G LTE Connectivity:** Supports FDD 800/900/1800/2100/2600 MHz and TDD 2600 MHz.
- **High-Speed Data:** Up to 150 Megabit/s download and 50 Megabit/s upload (LTE Category 4).
- **Wi-Fi N:** 802.11 b/g/n 2x2 MIMO, up to 300 Mbps on 2.4 GHz band, supporting up to 32 connected devices.
- **External Antenna Ports:** Two SMA connectors for optional external 4G/LTE antennas.
- **Gigabit Ethernet Port:** One RJ45 LAN/WAN port for wired connections.
- **RJ11 Port:** One RJ11 port for voice calls via SIM card (SIP account support depends on software version).
- **SIM Card Slot:** Supports standard Mini SIM cards.
- **Coverage:** Wi-Fi range up to 200 meters.
- **Security:** WPA2-PSK protocol for secure Wi-Fi.

4. Setup Guide

4.1 Inserting the SIM Card

1. Ensure the router is powered off.
2. Locate the SIM card slot, usually on the side or bottom of the device.
3. Insert a standard Mini SIM card into the slot with the gold contacts facing down and the notched corner oriented correctly. Push until it clicks into place.

4.2 Connecting Power

1. Connect the power adapter to the router's power port.
2. Plug the power adapter into a wall outlet.
3. Press the power button to turn on the router. Wait for the indicator lights to stabilize.

4.3 Initial Network Connection

You can connect to the router via Wi-Fi or Ethernet.

Via Wi-Fi:

- On your computer or mobile device, search for available Wi-Fi networks.
- Select the Wi-Fi network name (SSID) printed on the label at the bottom of the router.
- Enter the Wi-Fi password (Key) also found on the router's label.

Via Ethernet:

- Connect one end of the Ethernet cable to the LAN/WAN port on the router.
- Connect the other end to the Ethernet port on your computer.

4.4 Accessing the Web Management Interface

1. Open a web browser (e.g., Chrome, Firefox, Edge).
2. In the address bar, type the default IP address (usually 192.168.8.1 or 192.168.1.1) and press Enter. Refer to the router's

label for the exact IP address.

3. Enter the default username and password (usually "admin" for both, or as specified on the router's label).
4. Follow the on-screen prompts for initial setup, including changing the default password for security.

5. Operating Instructions

5.1 Managing Wi-Fi Settings

Through the web management interface, you can:

- Change the Wi-Fi network name (SSID).
- Change the Wi-Fi password.
- Enable or disable Wi-Fi.
- Configure guest networks.

5.2 Using External Antennas

For improved 4G LTE signal reception, you can connect external antennas to the two SMA connectors on the back of the router.

1. Ensure the router is powered off before connecting or disconnecting antennas.
2. Carefully screw the SMA connectors of your external antennas into the corresponding ports on the router.
3. Position the antennas for optimal signal reception.

5.3 Voice Calls via RJ11 Port

If your SIM card plan supports voice services and the router's software version allows, you can connect a standard analog phone to the RJ11 port to make and receive calls over the 4G network.

- Connect an analog telephone to the RJ11 port on the router.
- Dial numbers as you would with a regular landline phone.
- Configuration for SIP accounts may be required via the web management interface if your service provider uses VoIP.

6. Maintenance

6.1 Cleaning the Device

- Ensure the router is powered off and unplugged before cleaning.
- Use a soft, dry cloth to wipe the exterior of the router.
- Do not use liquid cleaners or aerosol sprays.

6.2 Firmware Updates

Periodically check the Huawei support website for firmware updates. Firmware updates can improve performance, add new features, and enhance security.

- Access the web management interface.
- Navigate to the "System" or "Maintenance" section to check for firmware updates.
- Follow the on-screen instructions to perform the update. Do not power off the device during an update.

6.3 Factory Reset

A factory reset will restore the router to its original factory settings, erasing all custom configurations. This can be useful for troubleshooting or before transferring ownership.

- With the router powered on, locate the reset button (often a small pinhole) on the device.
- Use a paperclip or similar pointed object to press and hold the reset button for approximately 5-10 seconds until the indicator lights change.
- Release the button and wait for the router to restart.

7. Troubleshooting

If you encounter issues with your router, refer to the following common problems and solutions:

Problem	Possible Solution
No Internet Connection	• Check if the SIM card is correctly inserted and activated. • Verify that the 4G signal indicator is lit and stable. • Restart the router and your connected device. • Check APN settings in the web management interface.
Slow Internet Speed	• Relocate the router to an area with better 4G signal. • Consider connecting external antennas. • Reduce the number of connected Wi-Fi devices. • Check for network congestion with your service provider.
Cannot Connect to Wi-Fi	• Ensure Wi-Fi is enabled on the router and your device. • Verify the Wi-Fi password (case-sensitive). • Move closer to the router. • Perform a factory reset if all else fails.
RJ11 Phone Not Working	• Ensure your SIM card plan includes voice services. • Check the router's software version for SIP support. • Verify the phone connection to the RJ11 port.

8. Specifications

Feature	Detail
Model Number	B310S-22
Dimensions (L x W x H)	18.01 x 3.51 x 12.6 cm (7.09 x 1.38 x 4.96 inches)
Weight	~220 g (0.48 lbs)
4G LTE FDD Bands	800/900/1800/2100/2600 MHz
4G LTE TDD Bands	2600 MHz
3G UMTS/WCDMA/DC-HSPA+ Bands	900/2100 MHz
2G GSM/GPRS/EDGE Bands	850/900/1800/1900MHz

Feature	Detail
LTE Download Speed	Up to 150 Megabit/s (Category 4)
LTE Upload Speed	Up to 50 Megabit/s
Wi-Fi Standard	802.11 b/g/n (Wi-Fi 4)
Wi-Fi Speed	Up to 300 Mbps (2.4 GHz)
Max Wi-Fi Devices	32
Wi-Fi Coverage	Up to 200 meters
Ethernet Ports	1 x RJ45 LAN/WAN Gigabit (1000 Mbps)
Telephone Ports	1 x RJ11
External Antenna Connectors	2 x SMA
SIM Card Type	Mini SIM (Standard SIM)
Power Supply	12 Volts
Security Protocol	WPA2-PSK

9. Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official HUAWEI website. Technical support and further assistance can be obtained through the HUAWEI customer service channels.
Online Support: Visit the official HUAWEI support website for FAQs, downloads, and contact information.
Customer Service: Refer to your regional HUAWEI website for local contact numbers and service centers.

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