HUAWEI 51060DYE

HUAWEI B311-221 4G LTE Router

User Manual

Model: 51060DYE

1. Product Overview

The HUAWEI B311-221 is a compact and powerful 4G LTE router designed to provide high-speed internet access via a cellular network. It is ideal for home or small office environments where wired internet is unavailable or unreliable. This router supports Wi-Fi connectivity for multiple devices and includes Ethernet ports for wired connections.

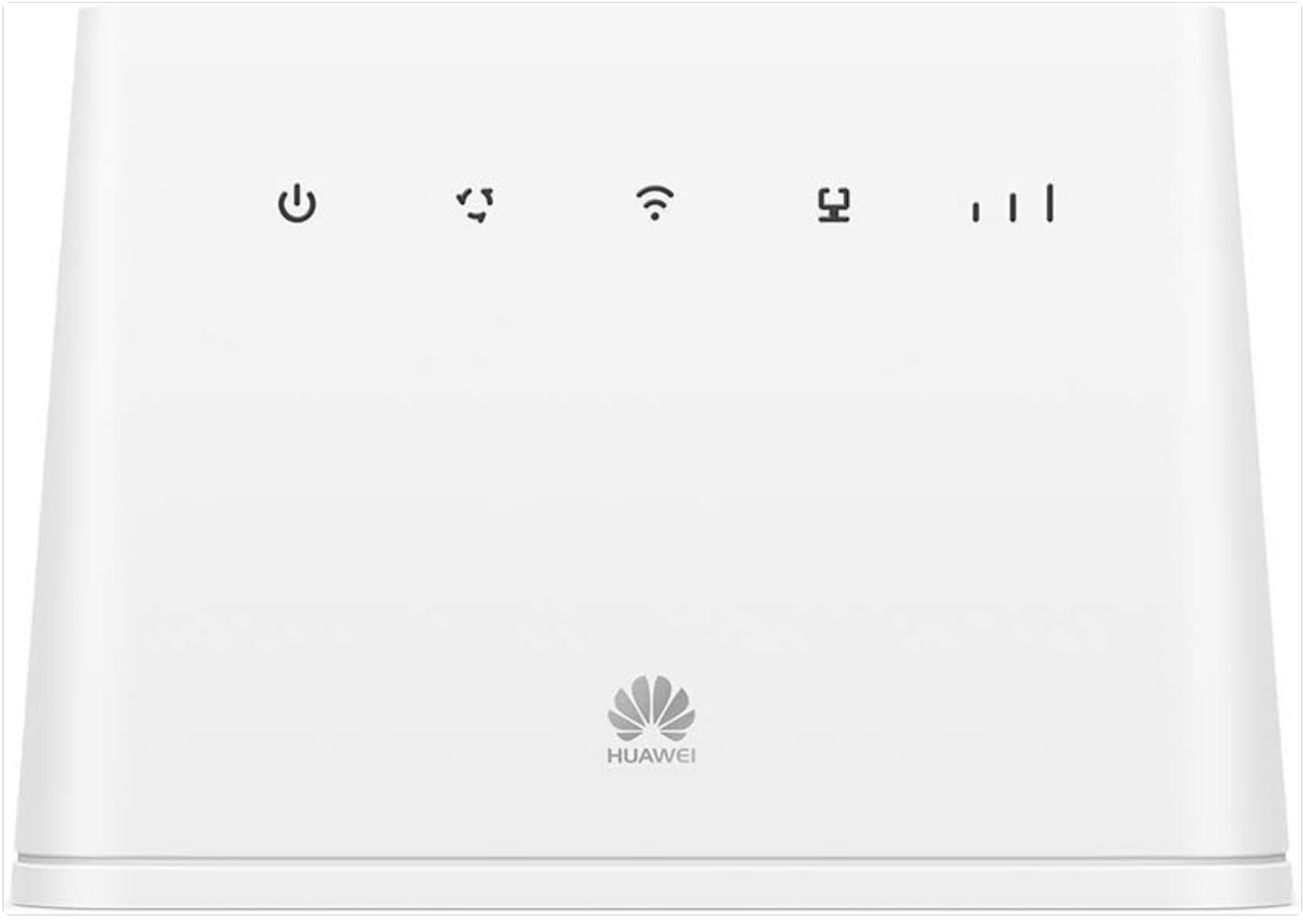


Figure 1: Front view of the HUAWEI B311-221 Router.

1.1 Package Contents

Please check the package contents upon unboxing:

- HUAWEI B311-221 Router Unit
- Power Adapter
- Quick Start Guide (may vary by region)

Note: The package typically includes the router unit and a power adapter. Additional accessories may vary.

1.2 Device Layout

Front Panel Indicators



Figure 2: Front panel indicators of the router.

- **Power Indicator:** Indicates the power status of the device.
- **Network Mode Indicator:** Shows the current network type (e.g., 4G, 3G).
- **Wi-Fi Indicator:** Indicates the Wi-Fi status.
- **LAN/WAN Indicator:** Shows the status of the Ethernet port.
- **Signal Strength Indicator:** Displays the cellular signal strength.

Rear Panel Ports and Buttons



Figure 3: Rear panel of the router showing ports.

- **Power Port:** Connects to the power adapter.
- **LAN/WAN Port:** Connects to a computer or other network device, or to a broadband modem.
- **TEL Port:** For connecting an analog telephone (if supported by your service provider).
- **External Antenna Ports:** For connecting optional external antennas to improve signal reception.
- **SIM Card Slot:** For inserting the Nano-SIM card.
- **Reset Button:** Used to restore factory settings.
- **WPS Button:** For quick Wi-Fi Protected Setup.
- **Power Button:** To turn the device on or off.

2. Setup Guide

2.1 Inserting the SIM Card

1. Ensure the router is powered off.
2. Locate the SIM card slot cover on the rear panel.
3. Open the cover and gently insert a Nano-SIM card into the slot with the gold contacts facing down and the notched corner oriented correctly, as shown in the diagram below.
4. Push the SIM card in until it clicks into place.
5. Close the SIM card slot cover.



Figure 4: Inserting the Nano-SIM card.

2.2 Connecting Power

1. Connect the power adapter to the router's power port.
2. Plug the other end of the power adapter into a suitable electrical outlet.
3. Press the Power button on the router to turn it on. The Power indicator will light up.

2.3 Connecting to the Internet

Wi-Fi Connection

1. Wait for the Network Mode indicator to turn solid, indicating a successful connection to the cellular network.
2. On your computer or mobile device, search for available Wi-Fi networks.
3. Select the Wi-Fi network name (SSID) printed on the label at the bottom of the router.
4. Enter the Wi-Fi password (Wi-Fi Key) also found on the router's label.
5. Once connected, you should have internet access.

Ethernet Connection

1. Connect one end of an Ethernet cable to the LAN/WAN port on the router.
2. Connect the other end of the Ethernet cable to the Ethernet port on your computer or other network device.
3. Your device should automatically obtain an IP address and connect to the internet.

2.4 Accessing the Web Management Page

To configure advanced settings, access the router's web management page:

1. Ensure your device is connected 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 (usually192.168.8.1 or 192.168.1.1) and press Enter. The exact IP address is usually printed on the router's label.
4. Enter the default username and password (typically 'admin' for both, also found on the router's label).
5. You will now be able to manage your router settings.

3. Operating Instructions

3.1 Understanding Indicator Lights

The LED indicators provide quick status updates:

- **Power:** Solid green when powered on.
- **Network Mode:**
  - Solid Blue: 4G/LTE network connected.
  - Solid Green: 3G network connected.
  - Solid Red: No SIM card, invalid SIM, or no network service.
- **Wi-Fi:** Solid green when Wi-Fi is enabled. Blinking when data is being transmitted.
- **LAN/WAN:** Solid green when an Ethernet cable is connected. Blinking when data is being transmitted.
- **Signal Strength:** More bars indicate stronger cellular signal.

3.2 Using WPS (Wi-Fi Protected Setup)

WPS allows you to connect Wi-Fi devices without entering the password:

1. Press the WPS button on the router. The Wi-Fi indicator will start blinking.
2. Within two minutes, activate WPS on your Wi-Fi device (e.g., smartphone, laptop).
3. The devices will automatically connect.

3.3 Managing Wi-Fi Settings

Through the web management page, you can:

- Change Wi-Fi name (SSID) and password.
- Enable/disable Wi-Fi.
- Set up guest Wi-Fi networks.
- Configure Wi-Fi security protocols (WPA2-PSK recommended).

4. Maintenance

4.1 Cleaning the Device

To maintain optimal performance:

- Use a soft, dry cloth to clean the exterior of the router.

- Do not use liquid cleaners or aerosol sprays.
- Ensure the device is powered off and unplugged before cleaning.

4.2 Firmware Updates

Periodically check for firmware updates via the router's web management page. Firmware updates can improve performance, add new features, and enhance security.

4.3 Restoring Factory Settings

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

1. With the router powered on, use a sharp object (like a paperclip) to press and hold the Reset button for approximately 5-10 seconds.
2. Release the button when the indicators flash. The router will restart with factory default settings.
3. You will need to reconfigure your internet settings and Wi-Fi password after a factory reset.

5. Troubleshooting

This section addresses common issues you might encounter:

Problem	Possible Cause / Solution
No Internet Access	Check SIM card insertion. Verify cellular signal strength (Signal Strength indicator). Ensure your SIM card has an active data plan. Restart the router. Check APN settings in the web management page.
Cannot Connect to Wi-Fi	Ensure Wi-Fi is enabled (Wi-Fi indicator is solid). Verify the Wi-Fi password. Move closer to the router. Restart the router and your Wi-Fi device.
Slow Internet Speed	Check cellular signal strength. Reduce the number of connected devices. Consider connecting external antennas. Check for network congestion in your area.
Cannot Access Web Management Page	Ensure your device is connected to the router. Verify the IP address entered in the browser. Clear browser cache or try a different browser. Restart the router.

6. Specifications

Feature	Detail
Brand	HUAWEI
Model Name	51060DYE
Wireless Type	802.11n, 802.11b, 802.11g
Frequency Band Class	Single-Band (2.4 GHz)
Connectivity Technology	Wi-Fi
Operating System	RouterOS
Item Weight	7.7 ounces
Product Dimensions (LxWxH)	7.13 x 1.42 x 4.96 inches
Color	White
Voltage	12 Volts
Compatible Devices	Laptop, Gaming Console, Tablet, Smartphone
Special Feature	WPS

7. Warranty and Support

Specific warranty terms and conditions for the HUAWEI B311-221 Router are not provided within this manual. Please refer to the warranty card included with your product, the manufacturer's official website, or contact your point of purchase for detailed warranty information and customer support.
For technical assistance, frequently asked questions, or to download the latest drivers and firmware, please visit the official HUAWEI support website.

© 2024 HUAWEI. All rights reserved.

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