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› ASHATA Dual Band Unlocked 4G LTE Modem Router User Manual

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Model: Dual Band Unlocked 4G LTE Modem Router

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ASHATA Dual Band Unlocked 4G LTE Modem Router. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.



Figure 1.1: The ASHATA 4G LTE Modem Router providing wireless internet in a home environment.

2. SAFETY INFORMATION

- Ensure the power adapter used is compatible with the device and your local power supply.
- Do not expose the device to water, moisture, or extreme temperatures.
- Avoid placing the device near heat sources or in direct sunlight.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Keep the device out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- ASHATA Dual Band Unlocked 4G LTE Modem Router
- Power Adapter (US Plug 100-240V)
- Ethernet Cable

High Gain Antennas

Adopting a four antenna design, equipped with two 4G antennas and two 2.4G antennas, Enhance signal gain effect and fully improve transmission performance

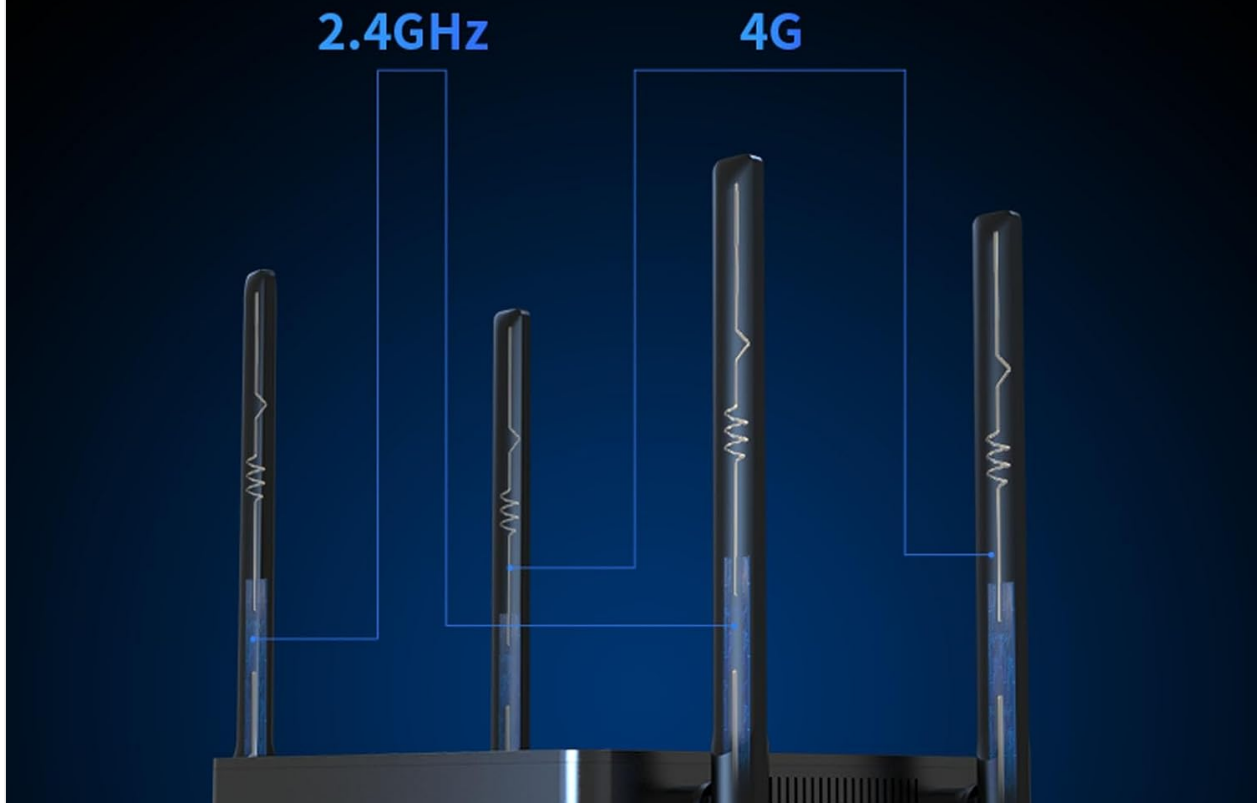


Figure 3.1: Contents included in the product package.

4. PRODUCT OVERVIEW

The ASHATA 4G LTE Modem Router is designed to provide high-speed internet access using 4G+ Cat6 technology, supporting speeds up to 300 Mbps. It features multiple antenna configurations for enhanced signal and coverage.

4.1 Key Features

- **High-Speed Data Transfer:** Up to 300 Mbps with 4G+ Cat6 technology.
- **Multiple Device Connection:** Supports up to 32 devices simultaneously (smartphones, computers, TVs, smart home devices).
- **Versatile Connection Options:** Includes LAN/WAN ports for backup internet access.
- **Plug and Play SIM Card Compatibility:** Works with SIM cards from over 100 countries without additional configuration.
- **Enhanced Signal Reception:** Quad-antenna design (two 4G, two 2.4G) for maximized signal and

coverage.

4.2 Antenna Configuration

The router is equipped with four high-gain antennas to optimize signal strength and coverage for both 4G and 2.4GHz Wi-Fi bands.



Figure 4.1: High Gain Antennas for improved signal transmission.

5. SETUP

5.1 SIM Card Installation

1. Ensure the router is powered off.
2. Locate the SIM card slot on the device.
3. Insert your standard-sized SIM card into the slot until it clicks into place. Use the provided ejector tool if necessary.
4. The router supports plug-and-play functionality for SIM cards, requiring no additional configuration for basic internet access.

5.2 Antenna Installation

1. Screw the four antennas clockwise onto their respective connectors on the router.
2. Adjust the antennas for optimal signal reception. Generally, positioning them vertically is recommended.

5.3 Power Connection

1. Connect the power adapter to the router's power input port.
2. Plug the power adapter into a suitable electrical outlet.
3. The router will power on automatically. Wait for the indicator lights to stabilize, indicating a successful connection.

6. OPERATING INSTRUCTIONS

6.1 Connecting to Wi-Fi

1. On your device (smartphone, computer, etc.), search for available Wi-Fi networks.
2. Select the network name (SSID) corresponding to your ASHATA router. The default SSID and password are usually found on a label on the router.
3. Enter the Wi-Fi password when prompted.
4. Once connected, your device will have internet access.

6.2 Connecting via LAN/WAN Port

The router includes LAN/WAN ports for wired connections and as a backup internet access option if 4G is unavailable.

1. Connect one end of an Ethernet cable to a LAN port on the router.
2. Connect the other end to the Ethernet port on your computer or other network device.
3. For WAN backup, connect an Ethernet cable from your existing modem or another internet source to the WAN port on the router.

6.3 Web Interface Access

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

1. Open a web browser on a device connected to the router.
2. Enter the default IP address (e.g., 192.168.1.1) into the address bar and press Enter. This IP address is typically found on a label on the router.
3. Enter the default username and password (also found on the router label) to log in.
4. From the web interface, you can change Wi-Fi settings, view connected devices, and manage other network configurations.

6.4 Supported Bands

The router supports various 4G bands across different regions, ensuring broad compatibility.

Bands supported

Support Asia, Europe, Africa, America different 4G Band

Asia/Europe/Middle East/Africa:
FDD: B1/3/5/7/8/20/28 ;
TDD: B38/40/41
WCDMA: B1/5/8
GSM: 850/900/1800MHz

Latin America:
FDD: B1/2/3/4/5/7/8/28/66 ;
TDD: B38/40
WCDMA: B1/2/5/8
GSM: 850/900/1800/1900MHz

North America:
FDD: B2/4/5/12/13/17/66/71
WCDMA: B2/4/5

50Mbps
4G LTE
150Mbps

300Mbps
2.4GHz

Figure 6.1: Supported 4G Bands by Region.

6.5 Whole House Coverage

The quad-antenna design ensures extensive signal coverage throughout your home or office, minimizing dead zones.

Whole house coverage

Adopting quad-antenna design, equipped with two 4G antennas and two 2.4G antennas, which effectively increases the signal transmission distance and covers a larger area.



Figure 6.2: Illustration of whole house Wi-Fi coverage.

6.6 High Power Output

A built-in PA chip enhances wireless transmission and reception capabilities, effectively increasing signal transmission distance and covering a wider range.

Stay Connected Anywhere

Connect to the Internet via the everywhere cellular network, keeping you online wherever you are.



Figure 6.3: High power output for extended range.

6.7 Usage Scenarios

The router is suitable for various environments where reliable internet access is needed, including:

- Office and home use
- Dormitories and apartments
- Security camera systems
- Outdoor work and campsites
- Touring cars and travel



Figure 6.4: Versatile usage scenarios for continuous connectivity.

7. MAINTENANCE

7.1 Cleaning

To maintain optimal performance, periodically clean the router's exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.

7.2 Fast Cooling System

The router features a scientific layout of heat dissipation holes to ensure efficient cooling, contributing to stable and reliable operation.

Fast cooling

Scientific layout of heat dissipation holes for efficient heat dissipation, ensuring more stable equipment operation.

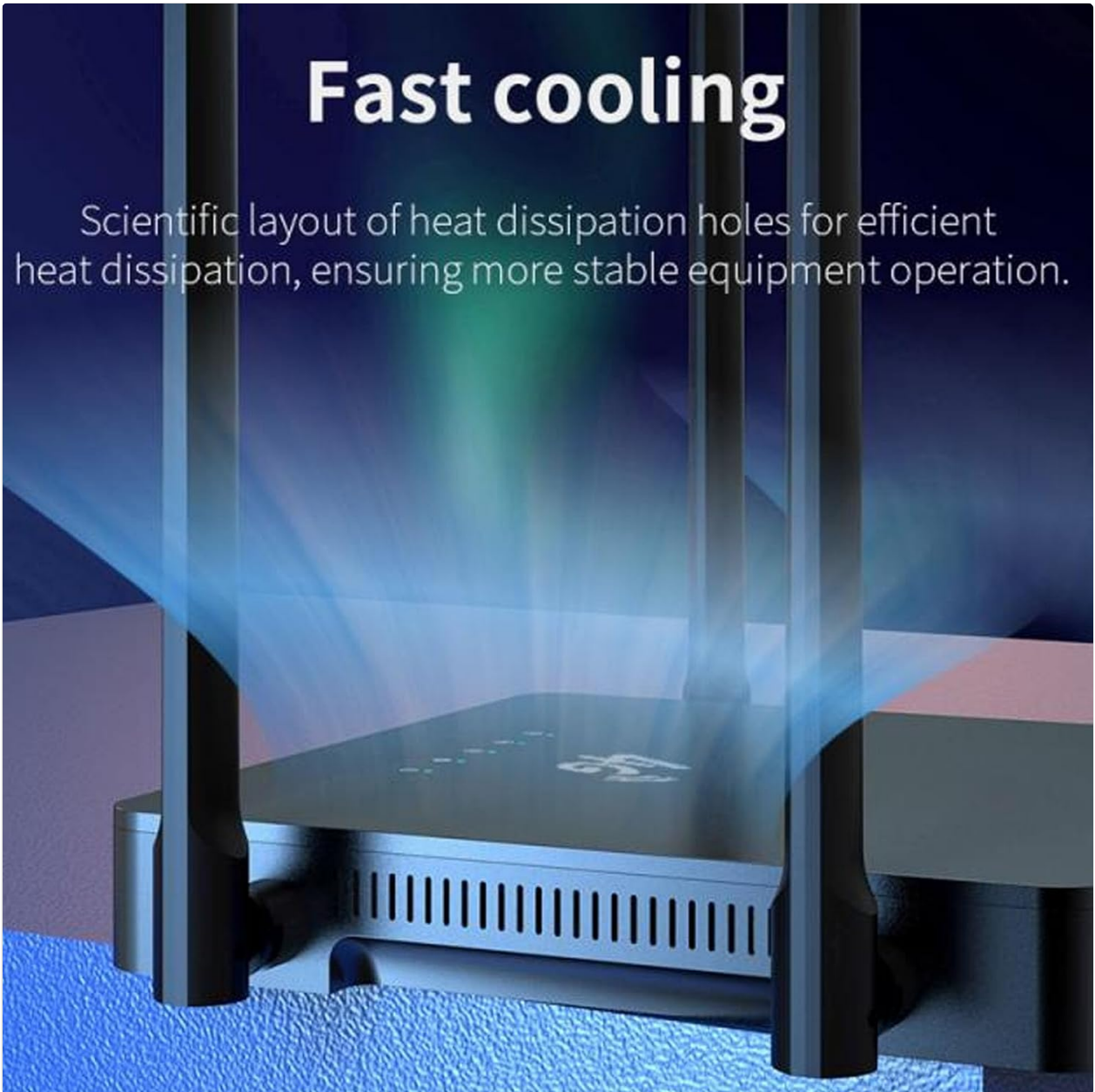


Figure 7.1: Efficient heat dissipation design for stable operation.

7.3 Firmware Updates

Check the manufacturer's website periodically for firmware updates. Keeping your router's firmware up-to-date can improve performance, add new features, and enhance security.

8. TROUBLESHOOTING

- **No Internet Connection:**

- Ensure the SIM card is correctly inserted and active.
- Check if the router's indicator lights are showing a stable connection.
- Try restarting the router by unplugging and replugging the power adapter.
- Verify that your SIM card has an active data plan.
- If using the WAN port, ensure the external internet source is working.

- **Weak Wi-Fi Signal:**

- Relocate the router to a central location, away from obstructions and other electronic devices that may cause interference.

- Adjust the antennas for better reception.
- Place the router near a window to maximize 4G signal reception.
- **Cannot Access Web Interface:**
 - Ensure your device is connected to the router's network (Wi-Fi or Ethernet).
 - Verify that you are entering the correct IP address, username, and password.
 - Try clearing your browser's cache or using a different browser.
- **Device Overheating:**
 - Ensure the router is placed in a well-ventilated area.
 - Do not block the ventilation holes.

9. SPECIFICATIONS

Feature	Description
Product Type	4G LTE WiFi Router
Brand Name	ASHATA
Connectivity Technology	Wi-Fi
Frequency Band Class	Dual-Band
Board Chipset	MediaTek
Memory	64MB
Flash	16MB
Antenna Specifications	2 x 4G Antennas, 2 x 2.4G Antennas
Max Connected Devices	Up to 32
Data Transfer Speed	Up to 300 Mbps (4G+ Cat6)
SIM Card Compatibility	Plug and Play, compatible with over 100 countries
Dimensions	31 x 23 x 4 cm
Weight	552 g

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Keep your proof of purchase for warranty claims.

