

rockspace RSD0614

rockspace AC2100 Dual-Band WiFi Router User Manual

Model: RSD0614

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, and maintaining your rockspace AC2100 Dual-Band WiFi Router (Model RSD0614). This high-performance router is designed to deliver fast and reliable wireless connectivity for multiple devices in your home or office environment.

The rockspace AC2100 router supports the 802.11ac wireless standard, offering dual-band operation (2.4 GHz and 5 GHz) for optimized speed and coverage. It features MU-MIMO technology, Gigabit Ethernet ports, and advanced security protocols to ensure a stable and secure network experience.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- rockspace AC2100 Dual-Band WiFi Router
- Power Adapter/Charger
- Ethernet Cable
- Quick Installation Guide (this document)

3. PRODUCT OVERVIEW

3.1 Front Panel Indicators

The front panel of the router features LED indicators that provide status information:

- **SYS:** System status indicator.
- **WAN:** Indicates the status of the Wide Area Network (Internet) connection.
- **LAN:** Indicates activity on the Local Area Network ports.
- **WiFi:** Indicates the status of the wireless network.



Image: Front view of the rockspace AC2100 WiFi Router, showing the four external antennas and the LED indicators for System, WAN, LAN, and WiFi status.

3.2 Rear Panel Ports and Buttons

The rear panel provides connectivity options and control buttons:

- **USB Port:** For connecting USB storage devices.
- **WPS/RST Button:** Press for WPS (Wi-Fi Protected Setup) to easily connect devices. Press and hold for 10 seconds to reset the router to factory default settings.
- **LAN Ports (4x Gigabit):** Connect wired devices such as computers, smart TVs, or gaming consoles.
- **WAN Port (1x Gigabit):** Connect to your modem for internet access.
- **Power Port:** Connect the included power adapter.
- **Power Button:** To turn the router on or off.

Go Faster— Wired or Wireless

4*1 Gbps ports make full use of gigabit speeds from your local ISP

2.1Gbps WiFi Speed

4*1000 Mbps Gigabit Ports

Image: Rear view of the rockspace AC2100 WiFi Router, highlighting the USB port, WPS/RST button, four Gigabit LAN ports, one Gigabit WAN port, and the power input.

4. SETUP GUIDE

Follow these steps to set up your rockspace AC2100 WiFi Router:

1. **Unpack the Router:** Carefully remove the router and all accessories from the packaging.
2. **Position the Router:** Place the router in a central location in your home, away from obstructions and devices that may cause interference (e.g., cordless phones, microwave ovens). Ensure the antennas are oriented vertically for optimal signal coverage.
3. **Connect to the Modem:**
 - Power off your modem.
 - Connect one end of the provided Ethernet cable to the WAN port on your rockspace router.
 - Connect the other end of the Ethernet cable to the Ethernet port on your modem.
 - Power on your modem and wait for it to fully boot up (usually indicated by stable status lights).
4. **Power On the Router:** Connect the power adapter to the router's power port and plug it into an electrical

outlet. Press the power button if necessary. Wait for the router's SYS and WAN indicators to become stable.

5. Connect a Device for Configuration:

- **Wired Connection:** Connect a computer to one of the router's LAN ports using an Ethernet cable.
 - **Wireless Connection:** On your computer or mobile device, search for the default WiFi network name (SSID) printed on the label at the bottom of your router. Connect to this network using the default password (also on the label).
6. **Access the Router's Web Interface:** Open a web browser (e.g., Chrome, Firefox, Edge) and enter the default IP address (usually 192.168.0.1 or 192.168.1.1) or the web address provided on the router's label.
7. **Follow On-Screen Instructions:** The setup wizard will guide you through configuring your internet connection, setting up new WiFi network names (SSIDs) and passwords, and establishing an administrator password for the router. It is highly recommended to change the default WiFi and administrator passwords for security.

5. OPERATING INSTRUCTIONS

5.1 Connecting Devices

You can connect devices to your rockspace AC2100 router via wired Ethernet or wirelessly.

- **Wired Devices:** Plug an Ethernet cable from your device (e.g., PC, gaming console) into any of the router's LAN ports.
- **Wireless Devices:** On your device, select your WiFi network name (SSID) from the list of available networks and enter your WiFi password. The router supports both 2.4 GHz and 5 GHz bands, often broadcasting with a single SSID for seamless connection.



Image: Illustration demonstrating the 'One Name, One Password' feature, where a single SSID is used for both 2.4GHz and 5GHz WiFi bands, simplifying device connection.

5.2 Dual-Band Technology

The AC2100 router operates on two frequency bands:

- **2.4 GHz Band:** Provides wider coverage and better penetration through walls, suitable for general internet use and older devices.
- **5 GHz Band:** Offers faster speeds and lower latency, ideal for bandwidth-intensive activities like 4K streaming and online gaming, but with a shorter range.

The router intelligently assigns devices to the optimal band for performance.

Ultra-Fast WiFi 5 Dual Band Smart Router

With speeds reaching up to 2.1Gbps rockspace is perfect for 4K streamingonline gaming, and web browsing

Band	Speed (Mbps)	Applications
5GHz Band	1733	4K, Gaming, Streaming
2.4GHz Band	300	Web, Email, Photos

Image: Graphic comparing the typical speeds of the 2.4GHz band (up to 300 Mbps) and the 5GHz band (up to 1733 Mbps) for the AC2100 router.

5.3 MU-MIMO Technology

The router incorporates 4x4 MU-MIMO (Multi-User, Multiple-Input, Multiple-Output) technology. This allows the router to communicate with multiple devices simultaneously, rather than sequentially. This reduces waiting time and improves WiFi efficiency, especially when many devices are connected and active, leading to faster speeds for all connected devices.

Entertainment for 50+ Devices

4*4 MU-MIMO Technology connects with multiple devices at the same time



Image: Illustration depicting MU-MIMO technology, showing the router efficiently serving multiple devices (e.g., smartphones, 4K devices, laptops, gaming consoles) concurrently.

5.4 Beamforming and Range Boost

Beamforming technology focuses WiFi signals directly towards connected devices, rather than broadcasting in all directions. Combined with Range Boost, this enhances signal strength and coverage, reducing dead zones and improving connectivity even through walls and across larger areas.

Boosted WiFi Coverage All Over

Four external antennas and beamforming technology provide better WiFi range and network performance.

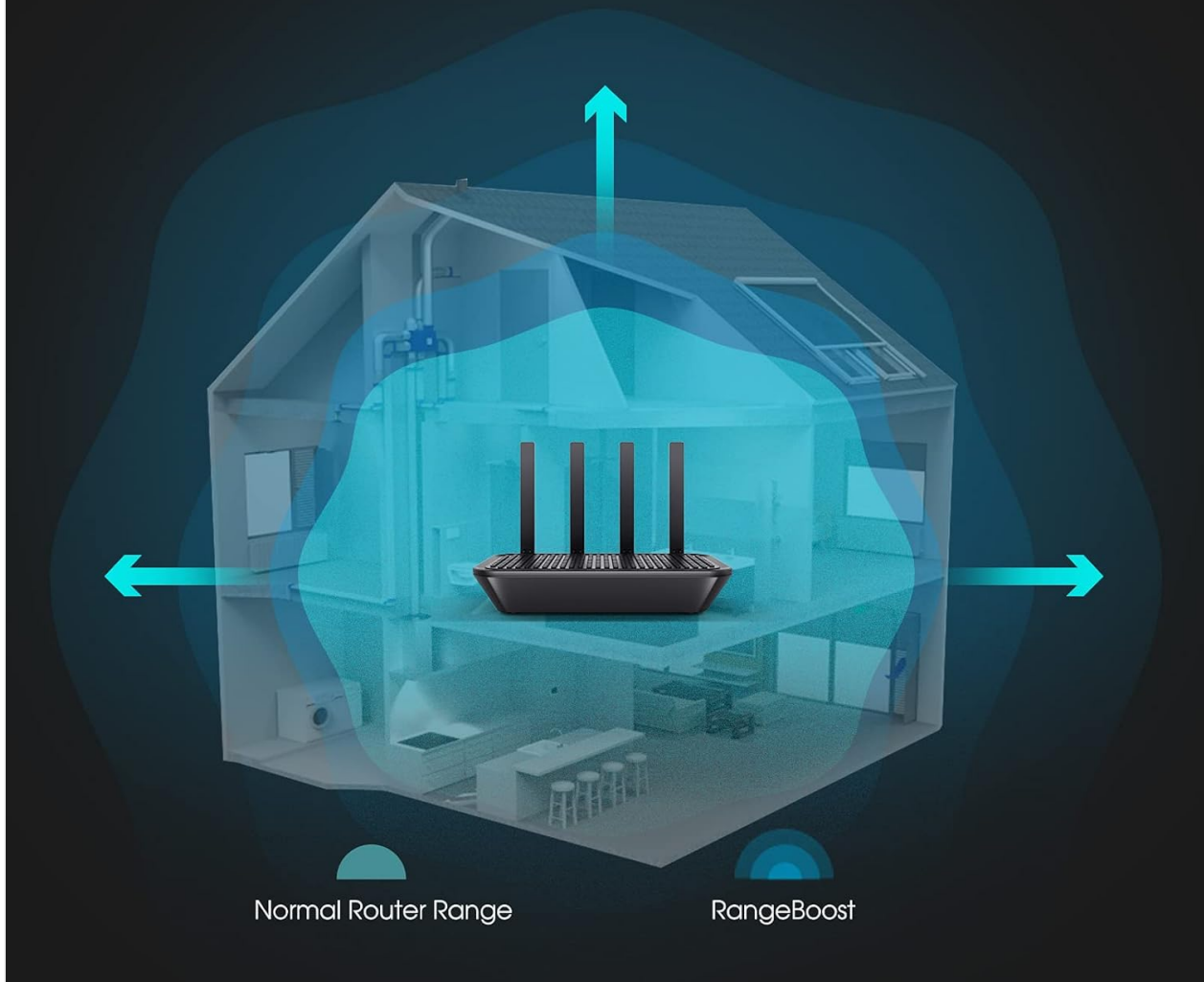


Image: Diagram illustrating how four external antennas and beamforming technology extend WiFi coverage throughout a multi-story house, showing improved signal compared to normal router range.

5.5 Guest Network

You can create a separate guest network to provide internet access to visitors without sharing your main network password. This enhances security by isolating guest devices from your primary network resources.

5.6 Parental Controls

The router's parental control features allow you to manage and monitor internet access for specific devices. You can set time limits, block websites, and restrict access to inappropriate content, ensuring a safer online environment for children.



Image: Two children looking at a tablet under a blanket, with a WiFi signal icon and a lock, symbolizing the parental control feature of the router.

5.7 Security Protocols

The router supports advanced security protocols, including WPA-PSK/WPA2-PSK, to protect your network from unauthorized access. It also includes firewall capabilities and allows for customization of black and white lists for enhanced security management.



Image: A laptop screen displaying a security shield icon with 'WPA2-PSK' text, indicating the router's advanced wireless security features.

6. MAINTENANCE

Regular maintenance helps ensure optimal performance and longevity of your router:

- **Firmware Updates:** Periodically check the rockspace official website for firmware updates. Updating the firmware can improve performance, add new features, and fix security vulnerabilities.
- **Rebooting:** If you experience network issues, try rebooting the router by unplugging the power adapter for 10 seconds and then plugging it back in.
- **Physical Cleaning:** Keep the router free from dust and debris. Use a soft, dry cloth for cleaning. Ensure ventilation openings are not blocked.
- **Password Management:** Regularly change your WiFi and administrator passwords to maintain network security.

7. TROUBLESHOOTING

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

- **No Internet Access:**
 - Check if the WAN indicator on the router is stable. If not, ensure the Ethernet cable from your modem is securely connected to the router's WAN port.
 - Reboot your modem and then your router.
 - Verify your internet service provider (ISP) connection is active.
- **Slow Wired Connection Speeds:**
 - Ensure you are using high-quality Ethernet cables (Cat5e or Cat6) for Gigabit speeds.
 - Confirm your device's network adapter supports Gigabit Ethernet.
 - Check the router's settings for any bandwidth limitations or Quality of Service (QoS) configurations that might be affecting wired speeds.
- **Weak or Intermittent WiFi Signal:**
 - Relocate the router to a more central position, away from obstacles and interference sources.
 - Ensure the router's antennas are properly oriented.
 - Consider using the 2.4 GHz band for devices further away or through multiple walls, and the 5 GHz band for closer, high-bandwidth devices.
- **Cannot Access Router's Web Interface:**
 - Ensure your device is connected to the router (wired or wirelessly).
 - Verify you are entering the correct IP address (e.g., 192.168.0.1) in your web browser.
 - Clear your browser's cache or try a different browser.
 - If you forgot the administrator password, perform a factory reset using the WPS/RST button *(Note: This will erase all custom settings.)*.
- **Power Plug Incompatibility:**
 - Ensure the provided power adapter is compatible with your region's electrical outlets. If not, contact rockspace support for assistance or obtain a suitable adapter.

8. SPECIFICATIONS

Feature	Detail
Model Number	RSD0614
Wireless Standard	802.11ac, 802.11g, 802.11n
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Max. Wireless Speed	AC2100 (Up to 300 Mbps on 2.4 GHz, 1733 Mbps on 5 GHz)
Ethernet Ports	4x Gigabit LAN, 1x Gigabit WAN
Special Features	MU-MIMO, Beamforming, WPS, Parental Controls
CPU	Dual-Core CPU
Dimensions (L x W x H)	9.41 x 5.67 x 1.59 inches

Item Weight	2.2 pounds
Compatible Devices	Gaming Console, Personal Computer, Smart Television

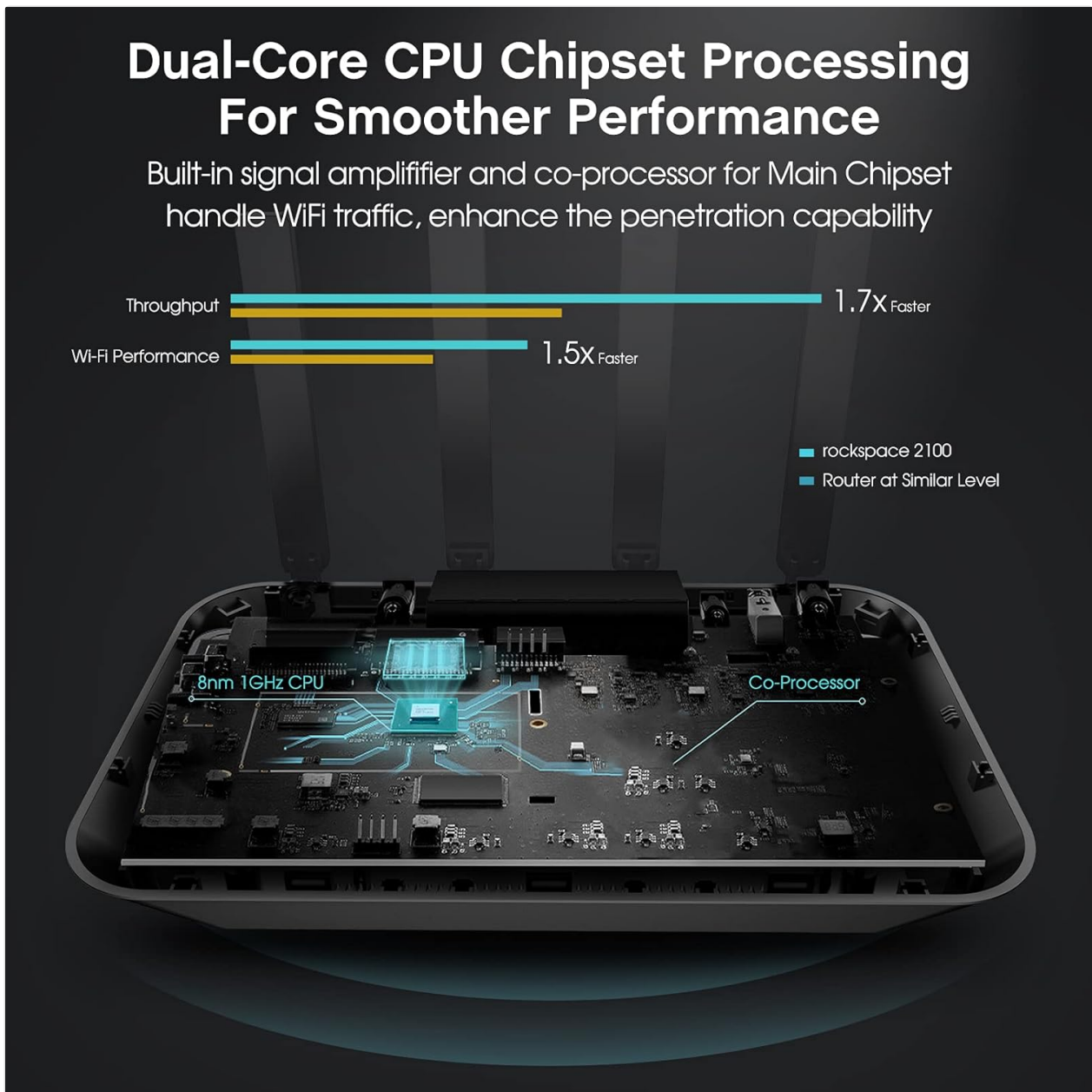


Image: Internal diagram of the router highlighting the Dual-Core CPU chipset and co-processor, indicating enhanced performance and signal penetration.


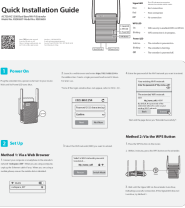


9. WARRANTY AND SUPPORT

rockspace products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your product or visit the official rockspace website.

If you require technical assistance or have questions about your rockspace AC2100 WiFi Router, please contact rockspace customer support through their official website or the contact information provided in your product packaging.

For the latest drivers, firmware, and support resources, please visit the rockspace support page.

Related Documents - RSD0614

	<p>rockspace RSD0613 Whole Home Mesh WiFi System User Manual</p> <p>User manual for the rockspace RSD0613 Whole Home Mesh WiFi System (3-pack). Provides setup instructions, FAQ, LED indicator descriptions, and technical support information for this AC2100 Tri-band mesh WiFi system.</p>
	<p>Quick Installation Guide: rockspace AC750/AC1200 Dual Band Wi-Fi Extender</p> <p>Step-by-step guide to setting up your rockspace AC750/AC1200 Dual Band Wi-Fi Extender (Model RSD0607/RSD0608) for enhanced wireless coverage. Includes setup methods, relocation tips, and troubleshooting.</p>
	<p>ROCK AX1800 Wi-Fi 6 Dual-Band USB Adapter Quick Installation Guide</p> <p>This Quick Installation Guide provides step-by-step instructions for installing and connecting the ROCK AX1800 Wi-Fi 6 Dual-Band USB Adapter (Model U1/U1A) to Windows 10 computers. It covers adapter installation, Wi-Fi network connection, driver uninstallation, adding the 'This PC' icon, and includes regulatory information and support contact details.</p>
	<p>AX1800 Wi-Fi 6 Mesh System Quick Installation Guide</p> <p>Quick installation guide for the rockspace AX1800 Wi-Fi 6 Mesh System (Model RSD0624), detailing setup via the ROCK WIFI app or web browser, adding secondary nodes, and common FAQs.</p>