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> AX1800 WiFi 6 Router User Manual

## rockspace RSD0619

# rockspace AX1800 WiFi 6 Router User Manual

Model: RSD0619

## 1. PRODUCT OVERVIEW

The rockspace AX1800 WiFi 6 Router is designed to provide high-speed, reliable wireless connectivity for modern home and office environments. Utilizing 802.11 ax (WiFi 6) technology, it offers enhanced network capacity and efficiency, making it suitable for demanding applications such as online gaming and 4K video streaming. This router supports multiple devices simultaneously with advanced features like MU-MIMO and OFDMA, ensuring a stable and fast internet experience.



Figure 1.1: rockspace AX1800 WiFi 6 Router

This image displays the front view of the rockspace AX1800 WiFi 6 Router, showcasing its sleek black design, four external antennas, and

the LED indicator lights on the top surface.

## 2. KEY FEATURES

- **Blazing High WiFi Speed:** Equipped with 802.11ax technology, providing up to 4X greater network capacity and efficiency for ultra-fast wireless speeds, ideal for online gaming and 4K video streaming.
- **Unbeatable WiFi Coverage:** Four high-gain antennas and Beamforming technology extend strong, stable signals up to 2500 sq ft, ensuring comprehensive coverage throughout your home.
- **Satisfactory WiFi Performance:** OFDMA technology enables efficient data scheduling and simultaneous data transmission to multiple devices, maintaining strong and reliable signals even with many connected devices.
- **Uninterrupted Connections:** MU-MIMO technology allows the router to deliver data to multiple devices concurrently, supporting over 35 connected devices. Gigabit ports offer up to 10x faster speeds than standard Ethernet, and a USB 3.0 port allows for shared storage and peripherals.
- **Easy to Use:** Compatible with all current WiFi devices (802.11a/b/g/n/ac/ax) and features automatic band selection. Setup is managed via a user-friendly web interface, with additional features like parental control and guest network for enhanced security.

# LARGER WIFI COVERAGE WITH 1800MBPS

Input Speed Is Largely Boosted



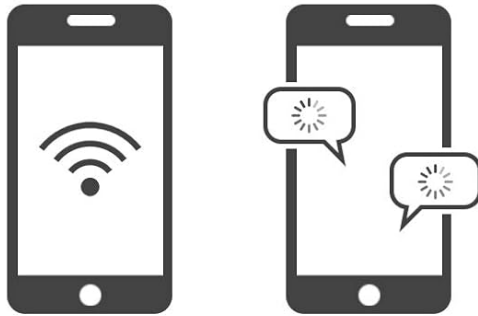
Figure 2.1: Expanded WiFi Coverage

This diagram illustrates how the rockspace AX1800 router provides extensive WiFi coverage throughout a multi-story house, showing signals reaching various rooms and even outdoor areas, indicating a boosted input speed of 1.8Gb/s.

# MORE CAPACITY WITH 8 X 8 MU-MIMO

More Devices Work Smoothly On The Same Network

## 802.11ac



802.11ac Technology

## 802.11ax



802.11ax Technology

Figure 2.2: MU-MIMO Technology Comparison

This image compares the efficiency of 802.11ac and 802.11ax (WiFi 6) technologies. It shows that 802.11ac handles devices sequentially, while 802.11ax, with its MU-MIMO capability, can communicate with multiple devices simultaneously, leading to smoother network performance.

# MANAGING MULTIPLE DEVICES & QUAD CORE PROCESSOR & SECURITY

Compatible With Most Devices



Figure 2.3: Quad-Core Processor and Security

This graphic depicts the router's quad-core processor as the central hub, efficiently managing various connected devices such as smartphones, laptops, gaming consoles, and security cameras, all protected by integrated security features.

# BSS COLOR & DUAL-BAND TECHNOLOGY

Don't Worry About Wifi Interference

## BSS COLOR



Figure 2.4: BSS Color and Dual-Band Technology

This image illustrates how BSS Color and Dual-Band Technology help minimize WiFi interference. It shows two distinct network zones, indicating that the router can differentiate and manage signals more effectively in crowded wireless environments.

# MULTIPLE CONNECT GIGABIT PORTS & RAW SPEED 50% FASTER



Gigabit LAN Ports



USB Port



Reset/WPS Button



AC1200  
wifi 5

1200Mbps

50%  
FASTER

AX1800  
wifi 6

1800Mbps

Figure 2.5: Router Ports and Buttons

This image provides a detailed view of the router's rear panel, highlighting its multiple Gigabit LAN ports for wired connections, a USB port for connecting external devices, and the combined Reset/WPS button for easy setup and troubleshooting. It also shows a comparison of speed between AC1200 (WiFi 5) and AX1800 (WiFi 6).

# MORE EFFICIENCY & ENTERTAINMENT WITH 1024-QAM



VPN Server



QoS



Parental control



Guest Network



Figure 2.6: Router Software Features

This image illustrates the various software features available with the router, including VPN Server capabilities, Quality of Service (QoS) for traffic prioritization, Parental Control for managing internet access, and the option to set up a Guest Network for visitors.

## 3. SETUP GUIDE

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### 3.1. Package Contents

Before you begin, please verify that all items are present in your package:

- rockspace AX1800 WiFi 6 Router
- Power Adapter
- Ethernet Cable
- Quick Installation Guide

### 3.2. Hardware Connection

1. **Power Off:** Disconnect the power from your modem and any existing router.
2. **Connect Modem:** Connect one end of the provided Ethernet cable to the WAN port (often blue) on the rockspace router. Connect the other end to your modem's Ethernet port.
3. **Connect Power:** Plug the power adapter into the router's power port and then into a wall outlet.
4. **Power On:** Power on your modem first, wait for its indicator lights to stabilize, then power on the rockspace router. Wait for the router's indicator lights to show a stable connection (usually solid blue or green).
5. **Connect Device:** Connect your computer or mobile device to the router. You can do this via Wi-Fi using the default SSID and password printed on the router's label, or by connecting an Ethernet cable from your computer to one of the router's LAN ports (often yellow).

### 3.3. Initial Configuration

To configure your router, follow these steps:

1. **Access Web Interface:** Open a web browser on your connected device. In the address bar, type the default IP address (e.g., 192.168.0.1 or router.rockspace.local) or the address specified on the router's label, and press Enter.
2. **Login:** Enter the default username and password (usually admin for both, or as specified on the router's label).
3. **Run Setup Wizard:** Follow the on-screen setup wizard to configure your internet connection type (e.g., PPPoE, Dynamic IP, Static IP), set your new Wi-Fi network name (SSID), and create a strong Wi-Fi password.
4. **Save Settings:** Save your configurations and restart the router if prompted.

## 4. OPERATING INSTRUCTIONS

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### 4.1. Connecting Devices

- **Wi-Fi Connection:** On your wireless device (smartphone, tablet, laptop), search for available Wi-Fi networks. Select the SSID you configured during setup and enter your Wi-Fi password.
- **Ethernet Connection:** For wired devices (desktop computers, gaming consoles, smart TVs), connect an Ethernet cable from the device's network port to any of the router's LAN ports.

### 4.2. Advanced Settings

The router's web interface provides access to various advanced settings:

- **Parental Control:** Manage internet access times and block specific websites for connected devices.
- **Guest Network:** Create a separate Wi-Fi network for guests, providing internet access without granting access to your main network resources.
- **Quality of Service (QoS):** Prioritize network traffic for specific applications or devices (e.g., prioritize gaming or video streaming).
- **VPN Server:** Configure the router to act as a VPN server, allowing secure remote access to your home network.
- **Port Forwarding:** Set up rules to allow external access to specific services on your local network.
- **Firmware Update:** Regularly check for and install firmware updates to ensure optimal performance and security.

## 5. MAINTENANCE

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- **Optimal Placement:** Place the router in a central location, away from obstructions (thick walls, metal objects) and interference sources (microwaves, cordless phones) to maximize Wi-Fi coverage and signal strength.

- **Firmware Updates:** Periodically check the rockspace official website for the latest firmware updates. Updating firmware can improve performance, add new features, and enhance security.
- **Cleaning:** Keep the router clean and free from dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or aerosols. Ensure ventilation openings are not blocked.
- **Restarting:** If you experience network slowdowns or instability, try restarting the router by unplugging its power adapter for 10 seconds and then plugging it back in.
- **Security:** Regularly change your Wi-Fi password and router login password to strong, unique combinations. Enable WPA2/WPA3 encryption for your Wi-Fi network.

## 6. TROUBLESHOOTING

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### 6.1. No Internet Access

- **Check Connections:** Ensure all cables (Ethernet from modem to router, power) are securely connected.
- **Modem Status:** Verify that your modem is working correctly and has an active internet connection.
- **Restart Devices:** Power cycle your modem, then the router, and then your connected devices.
- **Router Lights:** Check the router's indicator lights. Refer to the Quick Installation Guide for light status meanings.
- **ISP Settings:** Confirm your internet connection settings (e.g., PPPoE username/password) are correctly entered in the router's web interface.

### 6.2. Weak Wi-Fi Signal or Dead Zones

- **Router Placement:** Move the router to a more central location, away from walls, large metal objects, and other electronic devices that may cause interference.
- **Antenna Adjustment:** Adjust the router's antennas for optimal signal propagation.
- **Interference:** Identify and minimize sources of wireless interference (e.g., microwaves, cordless phones, Bluetooth devices).
- **Channel Optimization:** In the router's web interface, try changing the Wi-Fi channel to a less congested one.

### 6.3. Cannot Access Router's Web Interface

- **IP Address:** Ensure you are using the correct IP address or domain name (e.g., 192.168.0.1 or router.rockspace.local).
- **Network Connection:** Verify your device is connected to the router's network (either via Wi-Fi or Ethernet).
- **Browser Cache:** Clear your web browser's cache and cookies, or try a different browser.
- **Firewall/Antivirus:** Temporarily disable any firewall or antivirus software on your computer that might be blocking access.
- **Reset Router:** As a last resort, perform a factory reset by pressing and holding the Reset button on the router for about 10 seconds. *Note: This will erase all your custom settings.*

## 7. TECHNICAL SPECIFICATIONS

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Feature	Specification
Brand	rockspace
Model Name	RSD0619
Wireless Communication Standard	802.11ax (WiFi 6)
Frequency Band Class	Dual-Band (2.4 GHz & 5 GHz)
Connectivity Technology	Wi-Fi, Ethernet
Compatible Devices	Personal Computer, Smart Devices, Gaming Consoles, etc.
Recommended Uses For Product	Gaming, 4K Streaming, Home Networking
Security Protocol	WPS, WPA2/WPA3 Encryption
Product Dimensions	13.31 x 7.48 x 2.4 inches
Item Weight	2.05 pounds
Manufacturer	Shenzhen RenQing Excellent Technology Co.,Ltd

## 8. WARRANTY AND SUPPORT

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For detailed warranty information and technical support, please refer to the official rockspace website or contact their customer service. Keep your purchase receipt for warranty claims.

**Online Support:** Visit [www.rockspace.hk](http://www.rockspace.hk) for FAQs, firmware downloads, and support resources.

**Customer Service:** Refer to the contact information provided in your product packaging or on the official website for direct assistance.