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› Ruckus Unleashed R550 Wireless Access Point User Manual

Ruckus Wireless 9U1-R550-US00

Ruckus Unleashed R550 Wireless Access Point User Manual

Model: 9U1-R550-US00

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of your Ruckus Unleashed R550 Wireless Access Point. The Ruckus R550 is a high-performance, dual-band 802.11abgn/ac/ax (Wi-Fi 6) wireless access point designed for robust and reliable wireless connectivity in various environments. It also features Bluetooth for additional connectivity options.



Figure 1: Ruckus Unleashed R550 Wireless Access Point

2. PACKAGE CONTENTS

Carefully unpack the box and verify that all items are present and in good condition. If any item is missing or damaged, please contact your vendor.

- Ruckus Unleashed R550 Wireless Access Point
- Ethernet Cable (or similar connecting wire)
- Mounting Bracket (if included with your specific model)
- Quick Start Guide (separate document)

3. PHYSICAL DESCRIPTION AND FEATURES

The Ruckus R550 is designed for discreet and efficient deployment. It features an internal antenna system and various ports for network and power connectivity.

Key Features:

- **Dual-Band Wi-Fi:** Supports 2.4 GHz and 5 GHz frequencies for optimal performance.
- **Wi-Fi 6 (802.11ax):** Provides higher capacity, improved performance, and better efficiency in dense environments.
- **Bluetooth:** Integrated Bluetooth for location-based services or IoT applications.
- **WPS (Wi-Fi Protected Setup):** Simplifies the process of connecting devices to the wireless network.
- **Internal Antenna:** Streamlined design with integrated antennas.
- **Connectivity:** Supports Ethernet and Wi-Fi connections.

Dimensions and Weight:

- **Product Dimensions:** Approximately 7 x 2 x 8 inches
- **Item Weight:** Approximately 1.9 pounds

4. SETUP

Follow these steps to set up your Ruckus Unleashed R550 Wireless Access Point.

4.1. Mounting the Access Point

The R550 can be mounted on a wall or ceiling. Use the provided mounting bracket (if applicable) and hardware to secure the access point in a central location for optimal Wi-Fi coverage. Ensure the mounting surface is stable and can support the device's weight.

4.2. Connecting to the Network and Power

1. **Connect Ethernet:** Connect an Ethernet cable from your network switch or router to the Ethernet port on the R550. This connection provides both data and, if using Power over Ethernet (PoE), power to the device.
2. **Connect Power (if not using PoE):** If your network switch does not provide PoE, connect a compatible power adapter (sold separately or included with specific bundles) to the power input port on the R550 and then to a power outlet.
3. **Power On:** Once connected, the R550 will power on automatically. Observe the LED indicators for status.

4.3. Initial Configuration

The Ruckus Unleashed R550 operates as part of an Unleashed network, which is a controller-less Wi-Fi solution. Refer to the Ruckus Unleashed Quick Start Guide or the Ruckus support website for detailed instructions on initial setup, including:

- Discovering and configuring the Master AP.
- Setting up Wi-Fi networks (SSIDs).
- Managing network settings and security.

5. OPERATING INSTRUCTIONS

Once configured, the Ruckus R550 provides wireless access to your network.

5.1. Connecting Devices to Wi-Fi

To connect a device (laptop, smartphone, tablet) to the R550's Wi-Fi network:

1. On your device, enable Wi-Fi.
2. Scan for available networks.

3. Select the SSID (Wi-Fi network name) you configured during setup.
4. Enter the network password (if required).

5.2. Using WPS (Wi-Fi Protected Setup)

If your R550 is configured to support WPS, you can connect WPS-compatible devices by:

1. Pressing the WPS button on the R550 (location may vary, refer to device diagram).
2. Within two minutes, activate WPS on your client device.
3. The devices will automatically connect.

5.3. LED Indicators

The R550 features LED indicators that provide status information. Refer to the Ruckus Unleashed documentation for a detailed explanation of LED behavior (e.g., power, Wi-Fi activity, network connectivity).

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Ruckus R550.

- **Cleaning:** Gently wipe the exterior of the access point with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Regularly check the Ruckus support website for firmware updates. Keeping your device's firmware up-to-date ensures access to the latest features, security patches, and performance improvements. Follow the instructions provided by Ruckus for firmware upgrades.
- **Environmental Conditions:** Ensure the access point is operated within its specified temperature and humidity ranges. Avoid exposing it to direct sunlight, excessive heat, moisture, or dust.

7. TROUBLESHOOTING

If you encounter issues with your Ruckus R550, try the following troubleshooting steps:

7.1. No Power

- Verify that the power adapter (if used) is securely connected to both the AP and a working power outlet.
- If using PoE, ensure your Ethernet cable is connected to a PoE-enabled port on your switch or injector.
- Check the power LED on the AP.

7.2. No Wi-Fi Signal or Cannot Connect

- Ensure the AP is powered on and its Wi-Fi LED is active.
- Verify that the Ethernet cable is securely connected and the network is operational.
- Check your device's Wi-Fi settings to ensure it's scanning for the correct SSID.
- Confirm the Wi-Fi password is entered correctly.
- Restart the AP by disconnecting and reconnecting its power.
- If part of an Unleashed network, ensure the Master AP is operational.

7.3. Slow Connection Speed

- Ensure your device is within optimal range of the AP.
- Check for potential sources of interference (e.g., microwaves, cordless phones).
- Verify your internet service provider's speed.
- Consider updating the AP's firmware.

For more advanced troubleshooting, consult the Ruckus Wireless support documentation or contact Ruckus technical support.

8. SPECIFICATIONS

Feature	Description
Model Number	9U1-R550-US00
Brand	Ruckus Wireless
Wireless Standard	802.11 abgn/ac/ax (Wi-Fi 6)
Frequency Band Class	Dual-Band (2.4 GHz, 5 GHz)
Additional Wireless	Bluetooth
Connectivity Technology	Ethernet, Wi-Fi
Antenna Type	Internal
Special Feature	WPS
Product Dimensions	7 x 2 x 8 inches
Item Weight	1.9 pounds
Compatible Devices	Laptop, Personal Computer, Smartphone, Tablet

9. WARRANTY AND SUPPORT

For detailed information regarding the product warranty, technical support, and additional resources, please visit the official Ruckus Wireless website:

- **Ruckus Wireless Support:** <https://support.ruckuswireless.com>
- **Ruckus Unleashed Documentation:** <https://docs.ruckuswireless.com/unleashed/>

Always refer to the latest documentation available on the manufacturer’s website for the most up-to-date information.

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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.

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