Ruckus R720

Ruckus R720 802.11ac Wireless Indoor Access Point User Manual

Model: R720 (901-R720-US00)

1. INTRODUCTION

This manual provides detailed instructions for the installation, configuration, operation, and maintenance of the Ruckus R720 802.11ac Wireless Indoor Access Point. Please read this manual thoroughly before using the device to ensure proper and safe operation.

The Ruckus R720 is a high-performance 802.11ac Wave 2 Wi-Fi access point designed for high-density environments, offering multi-gigabit access speeds and advanced features for optimal wireless connectivity.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- Ensure the device is installed in a well-ventilated area.
- Use only the specified power adapter (12V DC) or Power over Ethernet (PoE) source (802.3af/at/bt).
- Do not expose the device to water or excessive humidity.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Keep the device away from heat sources and direct sunlight.

3. PRODUCT OVERVIEW

The Ruckus R720 is an 802.11ac Wave 2 wireless access point featuring concurrent dual-band radios (2.4GHz / 5GHz) and four MU-MIMO spatial streams. It is designed to provide high-performance wireless networking, supporting multiple clients and devices.

3.1 Key Features

- Four MU-MIMO spatial streams, concurrent dual-band radios (2.4GHz / 5GHz)
- Support for legacy clients, 802.11ac Wave 2 access point with 2.5Gbps
- Mitigate interference and extend coverage with patented BeamFlex+
- Improve performance automatically with ChannelFly, RF Dynamic Channel Selection
- 802.3af/at/bt Power over Ethernet (PoE) support
- Integrated key holes for wall or ceiling mount (adjustable acoustic drop ceiling bracket included)
- Two Ethernet ports: One 2.5GbE with 802.3af/at/bt (PoE, PoE+, PoH, UPoE) and one 1GbE
- USB port for radio modules

3.2 Package Contents

The Ruckus R720 package includes:

- Ruckus R720 Access Point
- Mounting Kit

Note: A 12V DC Adapter and a controller are sold separately and may be required for certain deployments.

3.3 Physical Description and Interfaces

Figure 1: Front view of the Ruckus R720 Access Point with LED indicators.
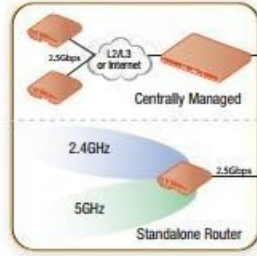
This image displays the front of the Ruckus R720 Access Point. Visible are five LED indicators labeled '5G', '2.4G', 'AIR', 'CTL', and 'PWR', providing status information for the device's operation, including 5GHz and 2.4GHz band activity, air interface, control status, and power.

Figure 2: Rear view of the Ruckus R720 Access Point with labeled ports and mounting features.

This image shows the rear panel of the Ruckus R720 Access Point. Key features highlighted include integrated key holes for wall or ceiling mounting, a pad-lock security latch, a Kensington Lock Eye, a Power Connector, a USB port for radio modules, and two Ethernet ports (one 2.5GbE with PoE support and one 1GbE).

4. SETUP AND INSTALLATION

Before beginning installation, ensure you have all necessary components and tools. The Ruckus R720 can be mounted on a wall or ceiling using the included mounting kit.

4.1 Mounting the Access Point

The R720 comes with an integrated mounting kit suitable for various surfaces. Follow these general steps:

1. **Choose a Location:** Select a central location for optimal Wi-Fi coverage, away from obstructions and sources of interference.
2. **Secure the Bracket:** Use the mounting bracket and appropriate screws to secure the access point to a wall or ceiling. Ensure it is firmly attached.
3. **Attach the AP:** Align the R720 with the mounted bracket and slide it into place until it clicks securely.

4.2 Powering the Access Point

The Ruckus R720 supports Power over Ethernet (PoE) or an external 12V DC power adapter.

- **PoE Connection:** Connect an Ethernet cable from a PoE-enabled switch or injector (802.3af/at/bt compliant) to the 2.5GbE Ethernet port on the R720. This will provide both power and data connectivity.
- **DC Power Connection:** If not using PoE, connect a 12V DC power adapter (sold separately) to the power connector on the rear of the device.

4.3 Network Connection

Connect the R720 to your network infrastructure:

- Connect an Ethernet cable from your network switch or router to either the 2.5GbE or 1GbE Ethernet port on the R720. The 2.5GbE port supports higher speeds and PoE.

5. OPERATING THE ACCESS POINT

Once powered on and connected to the network, the Ruckus R720 will begin its boot sequence. The LED indicators on the front panel provide status information.

5.1 LED Indicator Status

LED	Color/State	Description
PWR	Solid Green	Device is powered on and operating normally.
PWR	Off	No power.
2.4G / 5G	Solid Green	Radio is enabled and transmitting.
2.4G / 5G	Blinking Green	Radio is active with data traffic.
AIR	Blinking Green	Wireless activity detected.
CTL	Solid Green	Connected to a controller (if applicable).

5.2 Configuration (Advanced)

For advanced configuration, such as setting up SSIDs, security protocols, and network parameters, the Ruckus R720 can be managed in two primary modes:

- **Standalone Mode:** The AP operates independently. Configuration is typically done via a web-based interface by connecting directly to the AP or through its assigned IP address on the network.
- **Controller-Managed Mode:** For deployments with multiple access points, a Ruckus ZoneDirector or SmartZone controller (sold separately) is highly recommended. The controller provides centralized management, configuration, and monitoring of all connected APs. Controller-specific features like Smart Mesh networking are only available in this mode.

Refer to the Ruckus documentation for your specific controller model or the standalone AP firmware for detailed configuration instructions.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Ruckus R720 Access Point.

- **Cleaning:** Gently wipe the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Periodically check the Ruckus support website for firmware updates. Keeping the firmware

up-to-date ensures you have the latest features, security patches, and performance improvements.

- **Environmental Check:** Ensure the installation environment remains within recommended temperature and humidity ranges. Verify that ventilation openings are not blocked.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Ruckus R720 Access Point.

7.1 Common Issues and Solutions

No Power (PWR LED Off)

Possible Cause: Power adapter or PoE connection issue.
Solution:

- Verify the power adapter is securely connected to the AP and a working power outlet.
- If using PoE, ensure the Ethernet cable is properly connected to a PoE-enabled switch/injector and that the switch/injector is powered on and functioning correctly.
- Check the Ethernet cable for damage.

No Wireless Connectivity

Possible Cause: Radio disabled, incorrect configuration, or interference.
Solution:

- Check the 2.4G and 5G LEDs. If off, the radios might be disabled in the configuration.
- Access the AP's management interface (standalone mode) or controller to verify SSID broadcast, security settings, and channel selection.
- Ensure there are no strong sources of interference nearby (e.g., microwaves, cordless phones).
- Restart the access point.

Slow Performance

Possible Cause: Network congestion, interference, or outdated firmware.
Solution:

- Check for firmware updates and apply them if available.
- Utilize ChannelFly or manually select less congested Wi-Fi channels.
- Ensure your wired network connection to the AP is stable and performing optimally.
- Consider the number of connected devices and their bandwidth usage.

8. SPECIFICATIONS

Feature	Detail

Feature	Detail
Model	R720 (901-R720-US00)
Wireless Standard	802.11ac Wave 2
Frequency Band	Dual-Band (2.4 GHz, 5 GHz)
Spatial Streams	Four MU-MIMO
Ethernet Ports	1 x 2.5GbE (PoE), 1 x 1GbE
Power Input	802.3af/at/bt PoE or 12V DC
Dimensions (L x W x H)	9.9 x 8.8 x 3.7 inches
Weight	4 pounds
Mounting	Wall/Ceiling (Mounting Kit Included)
Special Feature	LED Indicator

9. WARRANTY AND SUPPORT

This product is offered as an Amazon Renewed item. Amazon Renewed products are professionally inspected and tested to work and look like new. They are eligible for replacement or refund under the Amazon Renewed Guarantee if you are not satisfied with your purchase.
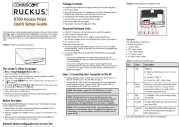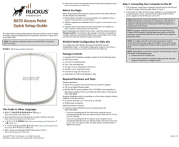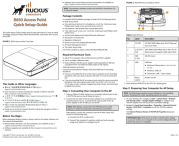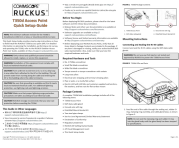
For specific support related to the Ruckus R720, including firmware downloads and advanced technical documentation, please visit the official Ruckus support website or contact their technical support team.

For inquiries regarding your Amazon Renewed purchase, please contact Amazon customer service or the seller directly.

Related Documents - R720

COMMSCOPE RUCKUS Ruckus Smart Start Guide Unleashed ネットワーク構築ガイド ver. 200.8 2020 年 4 月改訂	Ruckus Unleashed Smart Start Guide ver. 200.8: Ruckus Unleashed AP　　　　　　　AP　AP　WLAN　LTE　　　　　　ver. 200.8

	RUCKUS R760 Access Point: Quick Setup Guide for Wireless Network Installation Comprehensive guide for installing and configuring the RUCKUS R760 Tri-Band 802.11ax Indoor Wi-Fi Access Point. Learn setup steps, package contents, and mounting instructions for reliable wireless network deployment.
	RUCKUS IoT Suite 1.8.1.0 MR Release Notes: New Features, Fixes, and Known Issues Release notes for RUCKUS IoT Suite version 1.8.1.0 MR, detailing new features, changes, hardware/software compatibility, known issues, and best practices for managing IoT devices.
	**RUCKUS R670 Access Point Quick Setup Guide	Installation & Configuration** This guide provides step-by-step instructions for installing and configuring the RUCKUS R670 Wi-Fi 7 indoor access point. Learn about package contents, hardware requirements, setup procedures, mounting options, and troubleshooting.
	**Ruckus R650 Access Point Quick Setup Guide	Installation and Configuration** Step-by-step instructions for installing, configuring, and verifying the Ruckus R650 dual-band 802.11ax indoor Wi-Fi access point (AP). Includes package contents, hardware requirements, mounting guides, and troubleshooting tips.
	RUCKUS T350d Access Point Quick Setup Guide A concise guide to installing and setting up the RUCKUS T350d Outdoor Access Point, covering mounting, power, grounding, and basic troubleshooting.