

Ruckus R670

Ruckus Wireless R670 Wi-Fi 7 Indoor Access Point User Manual

Model: R670 (901-R670-US00)

1. INTRODUCTION

This user manual provides detailed instructions for the installation, configuration, operation, and maintenance of your Ruckus Wireless R670 Wi-Fi 7 Indoor Access Point. The R670 is a high-performance, tri-band access point designed to deliver superior Wi-Fi connectivity in indoor environments, supporting the latest Wi-Fi 7 standard for enhanced speed and efficiency.

Please read this manual thoroughly before operating the device to ensure proper setup and optimal performance. Keep this manual for future reference.

2. PRODUCT OVERVIEW

The Ruckus R670 is an advanced indoor access point featuring a sleek, low-profile design. It incorporates multiple antennas for robust signal coverage and supports various connectivity options.



Figure 2.1: Front view of the Ruckus R670 Access Point. This image shows the top-down perspective of the Ruckus R670, highlighting its circular, white casing with the Ruckus logo subtly embossed on the surface. A small LED indicator is visible on the front edge.



Figure 2.2: Rear view of the Ruckus R670 Access Point showing connectivity ports. This image displays the underside and rear edge of the Ruckus R670, revealing its various ports. Visible ports include two Ethernet ports and a USB port, along with a power input jack. These ports facilitate network connectivity and power supply for the device.

2.1. Key Features

- Wi-Fi 7 (802.11be) standard support for cutting-edge wireless performance.
- Tri-Band operation for optimized traffic management across 2.4 GHz, 5 GHz, and 6 GHz bands.
- Multiple Ethernet ports for wired connectivity.
- Advanced security protocols including WPA3.
- Designed for indoor deployment.

3. SETUP AND INSTALLATION

3.1. Package Contents

Before proceeding, verify that all items are present in your package:

- Ruckus R670 Wi-Fi 7 Indoor Access Point
- Mounting Bracket (if included)
- Ethernet Cable
- Power Adapter (if included, otherwise PoE required)
- Quick Start Guide

3.2. Physical Placement

For optimal performance, place the R670 in a central location within the desired coverage area, away from obstructions like large metal objects, concrete walls, and sources of electromagnetic interference (e.g., microwave ovens, cordless phones). The device is designed for indoor use only.

3.3. Connecting the Access Point

1. **Power Connection:** Connect the power adapter to the R670's power input port and then to a power outlet. Alternatively, if using Power over Ethernet (PoE), connect an Ethernet cable from a PoE-enabled switch or injector to one of the R670's Ethernet ports.
2. **Network Connection:** Connect an Ethernet cable from your network switch or router to one of the R670's Ethernet ports. This port will provide network access to the access point.
3. **Power On:** Once connected, the R670 will power on automatically. Observe the LED indicators for status.

3.4. Initial Configuration

The Ruckus R670 can be configured via a web-based interface or through a Ruckus controller (e.g.,

SmartZone, Unleashed). For initial setup:

1. Connect a computer directly to the R670's Ethernet port or connect to its default Wi-Fi SSID (usually "Ruckus" followed by part of the MAC address).
2. Open a web browser and navigate to the default IP address (refer to the Quick Start Guide or Ruckus documentation for the specific default IP, often 192.168.1.1 or obtained via DHCP).
3. Log in using the default credentials (e.g., username "admin", password "admin" or "password")**It is highly recommended to change default credentials immediately after initial login.**
4. Follow the on-screen wizard to configure basic settings such as Wi-Fi network names (SSIDs), security settings (WPA3 recommended), and administrative passwords.

4. OPERATING INSTRUCTIONS

4.1. LED Indicators

The R670 features an LED indicator that provides status information:

- **Solid Green:** Device is operating normally and connected to the network.
- **Flashing Green:** Device is booting up or performing a firmware upgrade.
- **Solid Amber:** Device is powered on but not connected to the network or has a configuration issue.
- **Flashing Amber:** Error condition or device is in a specific mode (e.g., factory reset in progress).
- **Off:** Device is powered off or LED is disabled.

4.2. Connecting Wireless Devices

To connect your Wi-Fi enabled devices (laptops, smartphones, tablets) to the R670:

1. On your device, scan for available Wi-Fi networks.
2. Select the SSID (network name) you configured for your R670.
3. Enter the Wi-Fi password (pre-shared key) when prompted.
4. Your device should now be connected to the Ruckus R670 network.

4.3. Advanced Features

The R670 supports advanced features for enhanced network management and performance:

- **Tri-Band Operation:** Utilizes 2.4 GHz, 5 GHz, and 6 GHz bands to provide optimal performance for various devices and reduce congestion.
- **WPA3 Security:** Provides enhanced encryption and security for your wireless network.
- **VLAN Tagging:** Supports VLANs for network segmentation and improved security.
- **Guest Access:** Create separate guest networks with isolated access.
- **Quality of Service (QoS):** Prioritize network traffic for critical applications.

5. MAINTENANCE

5.1. Firmware Updates

Regularly check for and install firmware updates from the official Ruckus support website. Firmware updates often include performance improvements, bug fixes, and security enhancements. Refer to the Ruckus documentation for specific instructions on updating firmware for your R670 model.

5.2. Cleaning

To clean the device, gently wipe the exterior with a soft, dry, lint-free cloth. Do not use liquid cleaners, aerosol sprays, or solvents, as these may damage the casing or internal components. Ensure the device is powered off before cleaning.

5.3. Environmental Considerations

Ensure the R670 is operated within its specified environmental limits (temperature, humidity). Avoid placing it in direct sunlight, near heat sources, or in excessively dusty or humid environments. Proper ventilation is crucial for long-term reliability.

6. TROUBLESHOOTING

6.1. Common Issues and Solutions

Problem	Possible Cause	Solution
No Power / LED Off	Power adapter not connected, faulty outlet, or PoE issue.	Check power connections. Ensure power outlet is functional. Verify PoE source if applicable.
No Network Connectivity (Solid Amber LED)	Ethernet cable disconnected, network issue, or incorrect IP configuration.	Check Ethernet cable connection to router/switch. Verify network settings on the R670. Restart router/switch.
Cannot Connect to Wi-Fi	Incorrect Wi-Fi password, SSID not broadcasting, or device compatibility issue.	Double-check Wi-Fi password. Ensure SSID broadcast is enabled. Try connecting with another device.
Slow Wi-Fi Performance	Interference, too many devices, or suboptimal placement.	Relocate the AP to reduce interference. Check for firmware updates. Optimize channel selection.

6.2. Factory Reset

If you encounter persistent issues or wish to revert all settings to their factory defaults, you can perform a factory reset. This typically involves pressing and holding a reset button on the device for a specified duration (e.g., 10-15 seconds) while the device is powered on. Refer to the Ruckus documentation for the exact procedure for the R670 model.

Warning: Performing a factory reset will erase all custom configurations and return the device to its default state. You will need to reconfigure it from scratch.

7. SPECIFICATIONS

Feature	Detail
Brand	Ruckus
Model Name	R670

Feature	Detail
ASIN	B0DCH5RG9B
Wireless Communication Standard	802.11ax (Wi-Fi 7 compatible)
Frequency Band Class	Tri-Band (2.4 GHz, 5 GHz, 6 GHz)
Connectivity Technology	Wi-Fi 7, Ethernet, Bluetooth, Zigbee
Security Protocol	WPA3
Number of Ports	2 (Ethernet)
Compatible Devices	Laptop, Personal Computer, Smartphone, Tablet
Operating System	ZyNOS (Note: This might be a generic OS listed; Ruckus typically uses their own OS or Linux-based systems for APs. User should refer to official Ruckus documentation for exact OS details.)
Item Weight	4 pounds
Package Dimensions	16 x 12 x 7 inches

8. SAFETY INFORMATION

- Do not expose the device to water or moisture.
- Do not open or attempt to repair the device yourself. Refer all servicing to qualified personnel.
- Use only the power adapter supplied with the device or a compatible PoE source.
- Ensure proper ventilation around the device to prevent overheating.
- Keep the device away from direct sunlight, heat sources, and flammable materials.

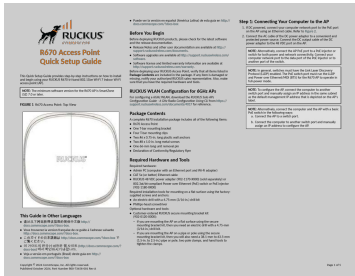
9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the warranty card included with your product or visit the official Ruckus Wireless website. Warranty terms and conditions may vary by region and purchase location. For technical support, product registration, and additional resources, please visit the Ruckus Wireless support portal. You may also find frequently asked questions (FAQs) and community forums that can assist with common inquiries.

Official Ruckus Wireless Website: <https://www.commscope.com/ruckus/>



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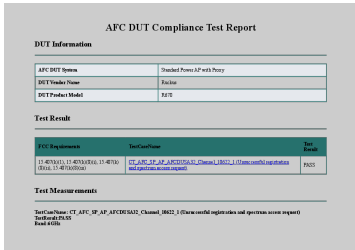


[pdf] Quick Start Guide Guide

R670 Access Point Quick Setup Guide Ruckus Networks Wireless LLC S9GR670 r670

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[pdf] Test Report

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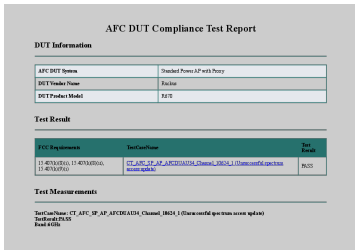
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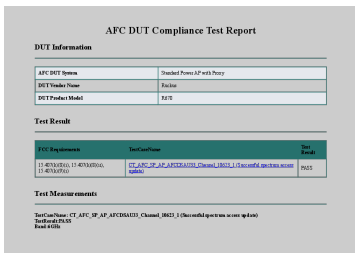
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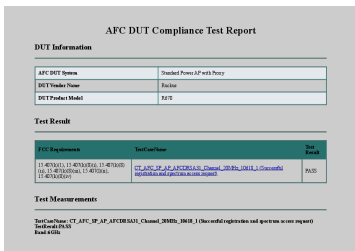
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r670

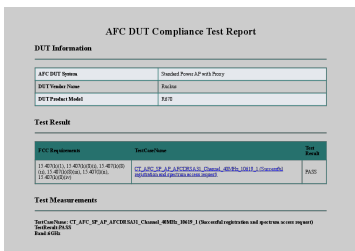
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r670

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r670

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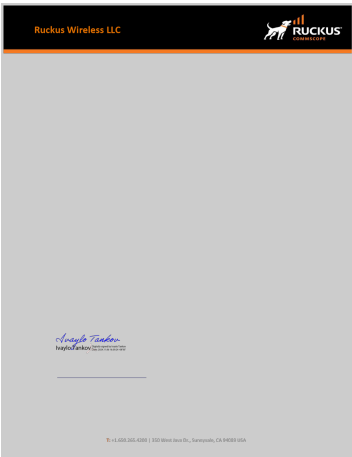
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Erica Perkins Ruckus Wireless LLC State of Minnesota Price List SZ144 vSZ includes Support for AP 5yr
RUCKUS AI Subscription 215 00 \$ 10% 193 50 Services CLD ruckus minnesota price list

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R670 Val Tankov S9GR670 FCC LoA Ruckus Wireless LLC Access Point r670

Ruckus Wireless LLC Federal Communications Commission 7435 Oakland Mills Road Columbia MD 21046 Da ... ct of 1988. 21 U.S.C. 862. This authorization is limited to the product of as following: FCC ID: S9GR670 This authorization is valid for 60 days or until further written notice from Ruckus Wireless LL...

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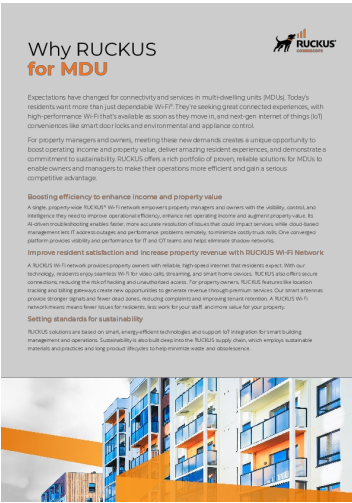
[pdf] Datasheet

RUCKUS® R670 data sheet PA 118919 1 EN RUCKUS Download Full T670 DatasheetRUCKUS

Outdoor WiFi 7 Access Pointruckus t670store 6q5bbsuh mybigcommerce content s ruckus t670 |||

RUCKUS T670 Outdoor Wi-Fi 7 802.11be Access Point with 9.34 Gbps Data Rate DATA SHEET Benefits Connect more devices simultaneously Improve device performance, by enabling more simultaneous device connections with 6 spatial streams 2x2:2 in 2.4GHz, 5GHz, and 6GHz technology. 9.34 Gbps Combined ...

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[pdf] Troubleshooting Guide

Why MDU properties are moving to WiFi WP 119274 EN RUCKUS Networks Explore At a Glance Multi

Tenant Living why mdu ruckus for ruckusnetworks globalassets digizuite 1003492 wi fi wp en |||

Why RUCKUS for MDU Expectations have changed for connectivity and services in multi-dwelling units ... imize the benefits from IoT devices. AI-driven RUCKUS Wi-Fi 7 solutions, including RUCKUS R770 and R670, provide a high-performance, low-latency, secure, reliable resident Wi-Fi experience. RUCKUS A...

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[pdf] Datasheet

RUCKUS® R670 data sheet Outdoor Wi Fi 7 802.11be Access Point with 9.34 Gbps Data Rate PA

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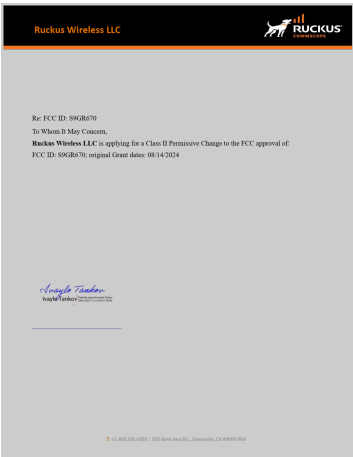
RUCKUS T670 Outdoor Wi-Fi 7 802.11be Access Point with 9.34 Gbps Data Rate

DATA SHEET Benefits Connect more devices simultaneously Improve device

performance, by enabling more simultaneous device connections with 6 spatial

streams 2x2:2 in 2.4GHz, 5GHz, and 6GHz technology. 9.34 Gbps Combined ...

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[pdf] Test Report

R670 Val Tankov S9GT670 FCC C2PC Letter Ruckus Wireless LLC Access Point S9GR670 r670

Ruckus Wireless LLC Class II Permissive Change Request Letter Federal

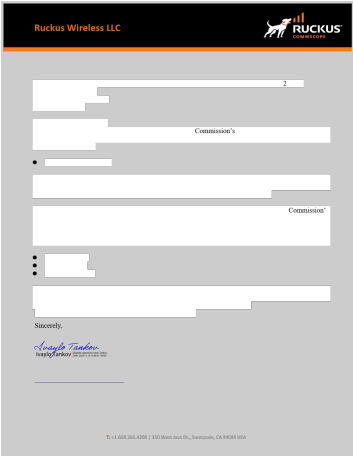
Communications Commission 7435 Oakland Mills Road Columbia MD 21046 Date:

November 12, 2024 Re: FCC ID: S9GR**670** To Whom It May Concern, Ruckus

Wireless LLC is applying for a Class II Permissive Change to the FCC approval of:

F...

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[pdf] Confidentiality Request Letter

R670 Val Tankov S9GT670 Request for Confidentiality v1 Ruckus Wireless LLC Access Point S9GR670

r670

Ruckus Wireless LLC FCC Laboratory 7435 Oakland Mills Rd Columbia MD 21046-

1609 FCC ID: S9GR**670** Request for Confidentiality Date: November 12, 2024 To

Whom It May Concern, Pursuant to the provisions of Sections 0.457 and 0.459 of

Commission s rules 47CFR0.457, 0.459 , we are requesting the Commi...

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Thomas Chen Ruckus R670 UAU34 DUT Available Spectrum Inquiry Request Response Wireless LLC Access Point S9GR670 r670

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Thomas Chen Ruckus R670 RSA31 160MHz DUT Available Spectrum Inquiry Request Response Wireless LLC Access Point S9GR670 r670

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Thomas Chen Ruckus R670 RSA31 80MHz DUT Available Spectrum Inquiry Request Response Wireless LLC Access Point S9GR670 r670

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```

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Thomas Chen Ruckus R670 RSA31 20MHz DUT Available Spectrum Inquiry Request Response
Wireless LLC Access Point S9GR670 r670

Ruckus **R670_RSA31_20MHz_DUT_Available_Spectrum_Inquiry_Request-Response.txt** ##### 2024-06-17T06:56:53Z

headers : Host : wfa.ruckusone.cloud , User-Agent : python-requests/2.28.2 , Accept-Encoding : gzip, deflate , Accept : /** , Content...
lang:nl **score:18** filesize: 131.96 K page_count: 9 document date: 2024-06-28

```
Ruckus R670_R670_RSA31_40MHz_DUT_Available_Spectrum_Inquiry_Request-Response.txt
##### 2024-06-17T07:16:22Z #####
{
  "headers": {
    "Host": "wfa.ruckusone.cloud",
    "User-Agent": "python-requests/2.28.2",
    "Accept-Encoding": "gzip, deflate",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "127.172.233.33",
    "X-Forwarded-Host": "wfa.ruckusone.cloud",
    "X-Forwarded-Server": "testserver.wfa.ruckusone.org",
    "Content-Length": "679",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequest": {
      "requestId": "70-F0-CF-3E-5B-8D-2024-06-17T07:16:22Z",
      "location": {
        "elevation": {
          "verticalUncertainty": 3,
          "heightType": "AGL",
          "height": 7
        },
        "radioDeployment": {
          "elevation": {
            "verticalUncertainty": 0,
            "heightType": "AGL",
            "height": 7
          },
          "orientation": 0,
          "majorAzim": 25,
          "center": {
            "latitude": 37.3333035443945,
            "longitude": -115.33329772949219
          },
          "minorAzim": 25
        }
      },
      "inquiredChannels": [
        {
          "globalOperatingClass": 131
        }
      ]
    }
  }
}
```

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Thomas Chen Ruckus R670 RSA31 40MHz DUT Available Spectrum Inquiry Request Response
Wireless LLC Access Point S9GR670 r670

Ruckus **R670_RSA31_40MHz_DUT_Available_Spectrum_Inquiry_Request-Response.txt** ##### 2024-06-17T07:16:22Z

headers : Host : wfa.ruckusone.cloud , User-Agent : python-requests/2.28.2 , Accept-Encoding : gzip, deflate , Accept : /** , Content...
lang:nl **score:18** filesize: 131.59 K page_count: 9 document date: 2024-06-28

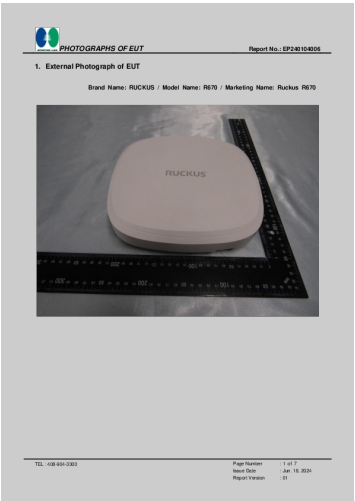
```
Ruckus R670_R670_USA32_DUT_Available_Spectrum_Inquiry_Request-Response.txt
##### 2024-06-17T02:55:46Z #####
{
  "headers": {
    "Host": "wfa.ruckusone.cloud",
    "User-Agent": "python-requests/2.28.2",
    "Accept-Encoding": "gzip, deflate",
    "Accept": "*/*",
    "Content-Type": "application/json",
    "X-Forwarded-For": "127.172.233.33",
    "X-Forwarded-Host": "wfa.ruckusone.cloud",
    "X-Forwarded-Server": "testserver.wfa.ruckusone.org",
    "Content-Length": "677",
    "Connection": "Keep-Alive"
  },
  "body": {
    "version": "1.4",
    "availableSpectrumInquiryRequest": {
      "requestId": "70-F0-CF-3E-5B-8D-2024-06-17T02:55:46Z",
      "location": {
        "elevation": {
          "verticalUncertainty": 3,
          "heightType": "AGL",
          "height": 3
        },
        "radioDeployment": {
          "elevation": {
            "verticalUncertainty": 0,
            "heightType": "AGL",
            "height": 3
          },
          "orientation": 0,
          "majorAzim": 25,
          "center": {
            "latitude": 37.1115992431406,
            "longitude": -115.1115992431406
          },
          "minorAzim": 25
        }
      },
      "inquiredChannels": [
        {
          "globalOperatingClass": 131
        }
      ]
    }
  }
}
```

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Thomas Chen Ruckus R670 USA32 DUT Available Spectrum Inquiry Request Response Wireless LLC
Access Point S9GR670 r670

Ruckus **R670_USA32_DUT_Available_Spectrum_Inquiry_Request-Response.txt** ##### 2024-06-17T02:55:46Z

headers : Host : wfa.ruckusone.cloud , User-Agent : python-requests/2.28.2 , Accept-Encoding : gzip, deflate , Accept : /** , Content-Type : ...
lang:fr **score:18** filesize: 85.7 K page_count: 2 document date: 2024-06-28

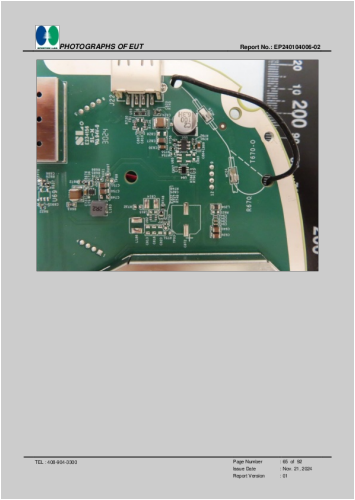


[pdf] Product Photos

R670 External Photo for FCC Ruckus Wireless LLC S9GR670 r670

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lang:en score:14 filesize: 1.37 M page_count: 7 document date: 2024-06-18



[pdf] Product Photos Teardown

S9GR670 Internal Photo 3 Ruckus Wireless LLC R670 r670

...

lang:en score:14 filesize: 5.3 M page_count: 27 document date: 2024-11-21

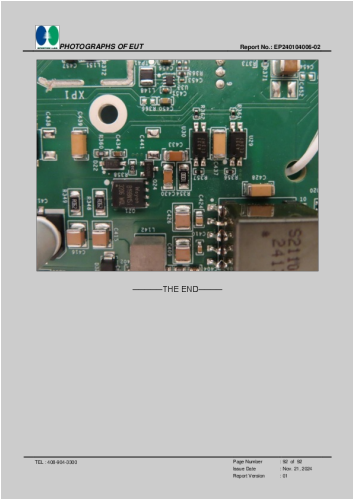


[pdf] Product Photos Teardown

S9GR670 Internal Photo 1 Ruckus Wireless LLC R670 r670

...

lang:en score:14 filesize: 5.43 M page_count: 33 document date: 2024-11-21



[pdf] Product Photos Teardown

S9GR670 Internal Photo 4 Ruckus Wireless LLC R670 r670

...

lang:en score:14 filesize: 269.25 K page_count: 1 document date: 2024-11-21



[pdf] Product Photos Teardown

S9GR670 Internal Photo 2 Ruckus Wireless LLC R670 r670

...

lang:en score:14 filesize: 5.32 M page_count: 31 document date: 2024-11-21

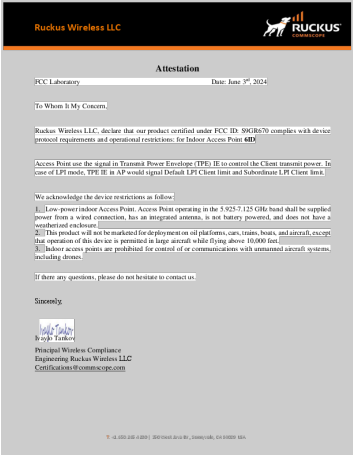


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R670 FCC LoA S9GR670 Ruckus Wireless LLC Access Point r670

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lang:en score:13 filesize: 103.64 K page_count: 0 document date: 0000-00-00



[pdf]

R670 Attestation 6ID Ruckus Wireless LLC Access Point S9GR670 r670

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lang:en score:13 filesize: 181.24 K page_count: 0 document date: 0000-00-00

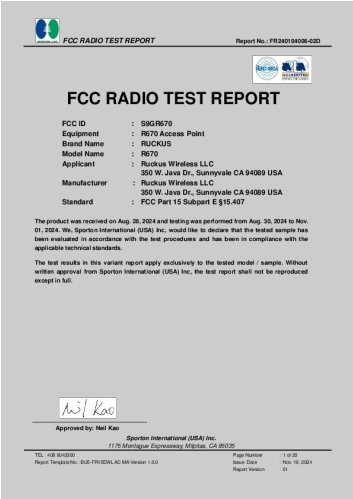


[pdf]

R670 Attestation 6SD Ruckus Wireless LLC Access Point S9GR670 r670

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lang:en score:13 filesize: 207.55 K page_count: 0 document date: 0000-00-00

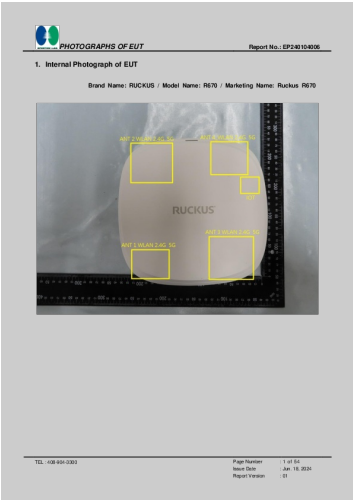


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FR240104006 02D TR 6SD Ruckus Wireless LLC R670 S9GR670 r670

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lang:en score:13 filesize: 5.61 M page_count: 190 document date: 2024-11-19



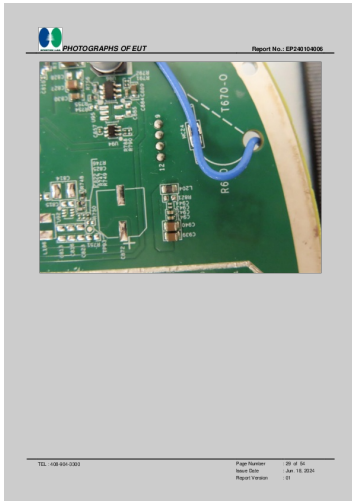
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Product Photos Teardown

R670 Internal Photo for FCC 1 Ruckus Wireless LLC S9GR670 r670

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lang:en score:13 filesize: 5.42 M page_count: 28 document date: 2024-07-11



[\[pdf\]](#) Product Photos Teardown

R670 Internal Photo for FCC 2 Ruckus Wireless LLC S9GR670 r670

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lang:en score:13 filesize: 4.25 M page_count: 26 document date: 2024-07-11