# RUCKUS® R370

## Indoor Wi-Fi 7 (802.11be) Access Point with 3.57 Gbps Data Rate

### BENEFITS

**Cost effective solution for facilities of any size**
The R370 Wi-Fi 7 (802.11be) access point (AP) is a cost effective solution that can deliver fast and reliable enterprise class Wi-Fi services to up to 256 client devices with up to 16 SSIDs per AP.

**Industry leading Wi-Fi performance**
Patented RUCKUS technologies for performance optimization and interference mitigation delivers superior user experience.

**Small size, minimal visual impact**
With a compact, low-profile design, Its discreet form factor enables placement in visually sensitive areas such as hotel rooms, classrooms, or small offices.

**Mesh networking**
Dynamically create self-forming, self-healing network mesh with RUCKUS patented SmartMesh technology reducing expensive cabling, and complex configurations by checking a box.

**Multiple unified management options**
Manage the R370 from the cloud, with on-premises physical/virtual appliances, or without a controller.

**Keep existing switches and cables**
Designed to operate on existing PoE switches and CAT 5e cabling to minimize costly power infrastructure upgrades.

**IoT Ready**
Eliminate siloed networks and unify Wi-Fi and IoT technologies into one single network with the addition of an optional USB module.

**2.5 GbE port minimizes wired backhaul bottleneck**
Multi-gigabit Wi-Fi performance delivered through the built-in 1/2.5Gbps Ethernet port to connect to multi-gigabit switches

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Facilities of any size can face significant demands on their wireless infrastructure. Guests staying in a motel, employees working from a small office, or individuals connecting to a public hotspot, often use the same high-bandwidth applications and content as they would anywhere else—and they expect fast and reliable connectivity. How do you deliver enterprise class wireless connectivity at a cost that remains accessible to even the most budget-conscious organizations?

The RUCKUS® R370 offers dependable, high-performance Wi-Fi 7 (802.11be) networking in a compact form factor. Equipped with patented RUCKUS technologies for optimizing performance and reducing interference—just like our top-tier access points—it ensures exceptional user experiences. With a low profile design, it's tailored for smaller venues while keeping costs affordable.

The R370 is an ideal choice for lower-density environments with less coverage areas including small and medium-size economy hotels and motels, small and medium-size businesses, retail locations, restaurants, and multi-tenant small offices, student housing and branch offices.

The RUCKUS R370 is a dual-band concurrent indoor Wi-Fi 7 AP that delivers 4 spatial streams (2x2:2 in 2.4GHz, 2x2:2 in 5GHz) and supports Wi-Fi 7 features, offering class leading performance with a combined data rate of 3.57 Gbps.

Furthermore, a 2.5 Gbps Ethernet port minimizes wired backhaul bottleneck for full use of available Wi-Fi capacity.

The R370 Wi-Fi 7 AP incorporates patented technologies found only in the RUCKUS Wi-Fi portfolio.

- **ChannelFly**® dynamically finds the least congested Wi-Fi channels to improve AP throughput
- **AI-driven Radio Resource Management** operates in the cloud, constantly monitoring the network for any radio interference and automatically adjusting radio settings and resources to maximize Wi-Fi performance
- **Adaptive Wi-Fi Cell Sizing** dynamically adjusts the size of Wi-Fi cells in real-time to maximize performance and capacity in high-density areas.
- **RUCKUS SmartCast technology** optimizes traffic management on Wi-Fi networks for multimedia, applications like video and voice.

Enterprises are increasingly relying on a variety of wireless technologies beyond Wi-Fi, such as BLE and Zigbee, leading to fragmented network silos. To address this, a unified platform is essential. The **RUCKUS IoT solution** brings these diverse wireless technologies together under a single platform, seamlessly integrating Wi-Fi, BLE, Zigbee, and more. The RUCKUS R370 supports this unified approach with a USB port that enables an optional pluggable BLE and Zigbee IoT module, ensuring streamlined connectivity across wireless networks.

The R370 provides an ideal combination of features and performance for smaller environments at a price any business can afford.

## R370 Access Point antenna pattern

RUCKUS superior antenna technology enables the best possible connection with every devices, delivering

- Better Wi-Fi coverage
- Reduced RF interference

**Figure 1.** 2.4GHz Azimuth Antenna Patterns

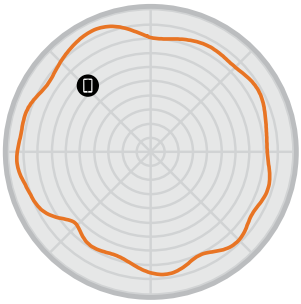


**Figure 2.** 5GHz Azimuth Antenna Patterns

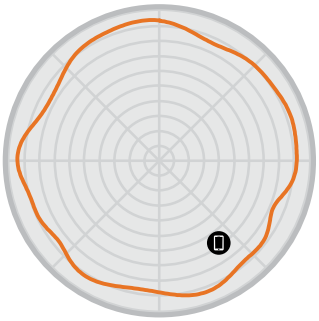


**Figure 3.** 2.4GHz Elevation Antenna Patterns

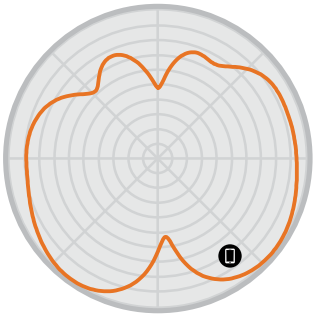
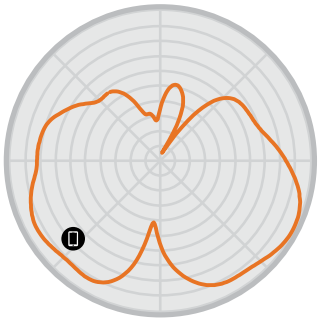


**Figure 4**. 5GHz Elevation Antenna Patterns

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| WI-FI | |
|---|---|
| **Wi-Fi Standards** | • IEEE 802.11a/b/g/n/ac/ax/be |
| **Supported Rates** | • 802.11be: up to 3.57 Gbps<br>• 802.11ax: 4 to 1774 Mbps<br>• 802.11ac: 6.5 to 867 Mbps<br>• 802.11n: 6.5 Mbps to 300 Mbps (MCS0 to MCS15)<br>• 802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps<br>• 802.11b: 11, 5.5, 2 and 1 Mbps |
| **Supported Channels** | • 2.4GHz: 1-13<br>• 5GHz: 36-64, 100-144, 149-165 |
| **MIMO** | • 2x2 SU-MIMO<br>• 2x2 MU-MIMO |
| **Spatial Streams** | • 2 streams SU/MU-MIMO 5 GHz<br>• 2 streams SU/MU-MIMO 2.4 GHz |
| **Radio Chains and Streams** | • 2x2:2 (5 GHz)<br>• 2x2:2 (2.4 GHz) |
| **Channelization** | • 20, 40, 80, 160 MHz |
| **Security** | • WPA-PSK, WPA-TKIP, WPA2, WPA3-Personal, WPA3-Enterprise, AES, WPA3, 802.11i, Dynamic PSK<br>• WIPS/WIDS |
| **Other Wi-Fi Features** | • WMM, Power Save, Tx Beamforming, LDPC, STBC, 802.11r/k/v<br>• Hotspot<br>• Hotspot 2.0<br>• Captive Portal<br>• WISPr |

| RF | |
|---|---|
| **Antenna Gain (max)** | • Up to 4dBi |
| **Peak Transmit Power** *(Aggregate across MIMO chains)* | • 2.4GHz: 23 dBm<br>• 5GHz: 23 dBm |
| **Frequency Bands** | • ISM (2.4-2.484GHz)<br>• U-NII-1 (5.15-5.25GHz)<br>• U-NII-2A (5.25-5.35GHz)<br>• U-NII-2C (5.47-5.725GHz)<br>• U-NII-3 (5.725-5.85GHz) |

**2.4GHZ RECEIVE SENSITIVITY (dBm)**

| HT20 | | HT40 | | VHT20 | | VHT40 | |
|---|---|---|---|---|---|---|---|
| MCS0 | MCS7 | MCS0 | MCS7 | MCS0 | MCS7 | MCS0 | MCS7 |
| -97 | -78 | -94 | -75 | -97 | -78 | -94 | -75 |
| **HE20/EHT20** | | | | **HE40/EHT40** | | | |
| MCS0 | MCS7 | MCS9 | MCS13 | MCS0 | MCS7 | MCS9 | MCS13 |
| -97 | -78 | -73 | -82 | -94 | -75 | -71 | -59 |

**5GHZ RECEIVE SENSITIVITY (dBm)**

| HT20/VHT20 | | | | HT40/VHT40 | | | | HT80/VHT80 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MCS0 | MCS7 | MCS8 | MCS9 | MCS0 | MCS7 | MCS8 | MCS9 | MCS0 | MCS7 | MCS8 | MCS9 |
| -97 | -78 | -75 | -73 | -94 | -75 | -73 | -70 | -92 | -73 | -70 | -67 |
| **HE20/EHT20** | | | | **HE40/EHT40** | | | | **HE80/EHT80** | | | **HE160/EHT160** |
| MCS0 | MCS9 | MCS13 | | MCS0 | MCS9 | MCS13 | | MCS0 | MCS9 | MCS13 | MCS0 | MCS9 | MCS13 |
| -97 | -73 | -62 | | -94 | -70 | -59 | | -92 | -67 | -55 | -89 | -64 | -52 |

| 2.4GHZ TX POWER TARGET (PER CHAIN) | |
|---|---|
| **Rate** | **Pout (dBm)** |
| **MCS0, HT20** | 20 |
| **MCS7, HT20** | 17 |
| **MCS9, VHT20** | 15 |
| **MCS11, HE40** | 13 |
| **MCS13, EHT40** | 11 |

| 5GHZ TX POWER TARGET (PER CHAIN) | |
|---|---|
| **Rate** | **Pout (dBm)** |
| **MCS0, HT20** | 20 |
| **MCS7, HT20** | 17 |
| **MCS9, VHT80** | 15 |
| **MCS11, HE160** | 13 |
| **MCS13, EHT160** | 11 |

| PERFORMANCE AND CAPACITY | |
|---|---|
| **Peak PHY Rates** | • 2.4GHz: 688 Mbps<br>• 5GHz: 2.882 Gbps |
| **Client Capacity** | • Up to 256 clients per AP |
| **SSID** | • Up to 16 per AP (8 per band) |

| RUCKUS RADIO MANAGEMENT | |
|---|---|
| **Antenna Optimization** | • Polarization Diversity with Maximal Radio Combining (PD-MRC) |
| **Wi-Fi Channel Management** | • ChannelFly<br>• Background Scan Based |
| **Client Density Management** | • Adaptive Band Balancing<br>• Client Load Balancing<br>• Airtime Fairness |
| **SmartCast Quality of Service** | • QoS-based scheduling<br>• Directed Multicast<br>• L2/L3/L4 ACLs |
| **Mobility** | • SmartRoam |
| **Diagnostic Tools** | • SpeedFlex |

Product owner is responsible to abide by the country of deployment spectrum regulations when configuring and deploying this product/device. AP operates as per local regulations via country regulatory domain.


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| NETWORKING | |
|---|---|
| **Controller Platform Support** | • RUCKUS One<br>• SmartZone<br>• RUCKUS Unleashed[1] |
| **Mesh** | • SmartMesh™ wireless meshing technology. Self-healing Mesh |
| **IP** | • IPv4, IPv6 |
| **VLAN** | • 802.1Q (1 per BSSID or dynamic per user based on RADIUS)<br>• VLAN Pooling<br>• Port-based |
| **802.1x** | • Authenticator & Supplicant |
| **Policy Management Tools** | • Access Control Lists<br>• Device Fingerprinting<br>• Rate Limiting<br>• Application Recognition and Control |

| PHYSICAL INTERFACES | |
|---|---|
| **Ethernet** | • 1 x 2.5 GbE port, RJ-45 |
| **DC Power** | • 48V DC Power Jack |
| **USB** | • 1 USB 2.0 Port, Type A (up to 3W power delivery) |

| PHYSICAL CHARACTERISTICS | |
|---|---|
| **Physical Size** | • 15.0(L) x 15.0(W) x 3.80(H) cm<br>• 5.9(L) x 5.9(W) x 1.5(H) in |
| **Weight** | • 390g (13.76 oz) |
| **Mounting** | • Wall, Drop ceiling, Desk<br>• Bracket (902-0120-000 sold separately) |
| **Physical Security** | • Hidden latching mechanism |
| **Operating Temperature** | • 0 °C (32 °F) to 40 °C (104 °F) |
| **Operating Humidity** | • Up to 95%, non-condensing |

**POWER[2]**

| Power Supply | Capabilities | Max Power Consumption |
|---|---|---|
| **DC Input 48VDC**<br>**802.3at PoE+** | *Full Functionality*<br>• 2.4GHz radio: 2x2, 20 dBm Tx Pwr<br>• 5GHz radio: 2x2, 20 dBm Tx Pwr<br>• USB enabled | 20W |
| **802.3af PoE** | • 2.4GHz radio: 2x2, 14 dBm Tx Pwr<br>• 5GHz radio: 2x2, 14.5 dBm Tx Pwr<br>• USB disabled | 12.94W |

| CERTIFICATIONS AND COMPLIANCE | |
|---|---|
| **Wi-Fi Alliance[3]** | • Wi-Fi CERTIFIED™ a, b, g, n, ac<br>• Wi-Fi CERTIFIED 6™<br>• Wi-Fi CERTIFIED 7™*<br>• WPA2™ -Enterprise, Personal<br>• WPA3™ -Enterprise, Personal |
| **Standards Compliance[4]** | • EN 60950-1 Safety<br>• EN 60601-1-2 Medical<br>• EN 61000-4-2/3/5 Immunity<br>• EN 50121-1 Railway EMC<br>• EN 50121-4 Railway Immunity<br>• UL 2043 Plenum<br>• EN 62311 Human Safety/RF Exposure<br>• WEEE & RoHS<br>• ISTA 2A Transportation |

| SOFTWARE AND SERVICES | |
|---|---|
| **Network Analytics** | • RUCKUS® AI |
| **Security and Policy** | • Cloudpath |

| ORDERING INFORMATION | |
|---|---|
| **901-R370-XX02** | • R370 dual-band (5GHz and 2.4GHz concurrent) 802.11be Entry-Level wireless access point (up to 256 concurrent clients), 2x2:2 streams (2.4GHz/5GHz), PoE support. Does not include power adaptor or PoE injector. Includes Limited Lifetime Warranty. |

Warranty: Sold with a Limited Lifetime Warranty.
For details see: http://support.ruckuswireless.com/warranty

| OPTIONAL ACCESSORIES | |
|---|---|
| **902-1180-XX00** | • Multigigabit PoE injector 2.5/5/10-BaseT (60W) |
| **902-0196-0000** | • Spare, T-bar ceiling mount kit for mounting to flush frame ceiling |
| **902-0120-0000** | • Spare, Accessory Mounting Bracket |
| **902-1170-XX00** | • Power Adapter (48V, 0.75A, 36W) |

**PLEASE NOTE:** When ordering Indoor APs, you must specify the destination region by indicating -US or -WW, instead of XX. When ordering PoE injectors or power supplies, you must specify the destination region by indicating -US, -EU, -AU, -BR, -CN, -IN, -KR, -SA, -UK, or -UN instead of -XX.

| PACKAGING DIMENSIONS AND WEIGHT | |
|---|---|
| **Package Size** | • 15.6(L) x 17.8(W) x 7.2(H) cm |
| **Package Weight** | • 544g |

1 Available in an upcoming software release. Refer to Unleashed datasheet for SKU ordering information.

2 Max power varies by country setting, band, and MCS rate.

3 For complete list of WFA certifications, please see the Wi-Fi Alliance website.

4 For current certification status, please see the price list.

* Certification pending


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## About RUCKUS Networks

RUCKUS Networks builds and delivers purpose-driven networks that perform in the demanding environments of the industries we serve. Together with our network of trusted go-to-market partners, we empower our customers to deliver exceptional experiences to the guests, students, residents, citizens and employees who count on them.

www.ruckusnetworks.com

Visit our website or contact your local RUCKUS representative for more information.

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