

# RG-RAP72

## Wi-Fi 7 BE3600 Ceiling-Mount Access Point



### Highlights

- AI-powered Wi-Fi 7 ceiling-mount AP with dual-radio performance
- Support AI Optimization (WIO 3.0)
- Easy installation, compact size
- New circular design, seamlessly blending with different decoration styles
- Tailored for business needs with Reeye Mesh, standalone portal, and AI roaming features

## Highlight Features

Next-Gen Speed, Within Reach



WiFi-7

Pro Performance, Starter Price

WiFi 7 | 2024 | \$199





# Highlight Features

## Where Minimalism Meets Signal Mastery



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# Highlight Features

## Where Minimalism Meets Signal Mastery



## One More Device, Endless Possibilities



## Evolving Design, Consistent Excellence



# Highlight Features

## 4K QAM

2048 levels, up to 20% higher data rate than the 1024-level QAM, and 20% higher spectral efficiency



Single Link



Multi-Link

## Multi-Link Operation

Ensures seamless connectivity and reduced lag by simultaneously bonding 2G, 4G and 5G channels

Without Multi-Link Operation

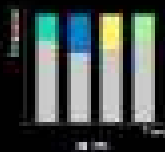


With Multi-Link Operation

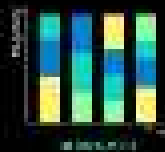


## Preamble Puncturing

Maximizes stable bandwidth in crowded environments by bypassing interference-prone subcarriers



Standard



Preamble Puncturing

## Multiple Resource Units

Enables seamless data delivery and capacity for optimal performance with multiple carriers and channels

## Cloud, Make Your Business Easy

Cloud-based  
Infrastructure



Cloud-based  
Storage



Cloud-based  
Data Center



Cloud-based  
Network



Cloud-based infrastructure, storage, data center, and network solutions are essential for businesses looking to optimize their operations and reduce costs. These solutions provide a scalable and flexible environment for businesses to grow and thrive in the digital age. Cloud-based infrastructure allows businesses to access computing resources on-demand, while cloud-based storage provides a secure and reliable way to store and manage data. Cloud-based data centers offer a high level of performance and availability, and cloud-based networks provide a secure and efficient way to connect devices and applications. By leveraging these solutions, businesses can improve their operational efficiency, reduce their carbon footprint, and enhance their overall performance. Cloud-based solutions are also highly secure, with robust security measures in place to protect data and applications. This makes them an ideal choice for businesses of all sizes, from small startups to large enterprises. Cloud-based solutions are also highly scalable, allowing businesses to easily adjust their resources to meet changing demands. This makes them a highly flexible and adaptable solution for businesses in a rapidly changing market. Cloud-based solutions are also highly reliable, with multiple data centers and backup systems in place to ensure data availability and business continuity. This makes them an essential part of any business's IT strategy. Cloud-based solutions are also highly cost-effective, as they allow businesses to pay only for the resources they need, rather than investing in expensive hardware and software. This makes them an ideal solution for businesses with limited budgets. Cloud-based solutions are also highly secure, with robust security measures in place to protect data and applications. This makes them an ideal choice for businesses in highly regulated industries. Cloud-based solutions are also highly flexible, allowing businesses to easily integrate them with their existing IT systems. This makes them a highly adaptable solution for businesses of all sizes. Cloud-based solutions are also highly scalable, allowing businesses to easily adjust their resources to meet changing demands. This makes them a highly flexible and adaptable solution for businesses in a rapidly changing market. Cloud-based solutions are also highly reliable, with multiple data centers and backup systems in place to ensure data availability and business continuity. This makes them an essential part of any business's IT strategy. Cloud-based solutions are also highly cost-effective, as they allow businesses to pay only for the resources they need, rather than investing in expensive hardware and software. This makes them an ideal solution for businesses with limited budgets. Cloud-based solutions are also highly secure, with robust security measures in place to protect data and applications. This makes them an ideal choice for businesses in highly regulated industries. Cloud-based solutions are also highly flexible, allowing businesses to easily integrate them with their existing IT systems. This makes them a highly adaptable solution for businesses of all sizes.

## Product Information

Model	RG-RAP72
Product Type	Ceiling AP

## Hardware Specifications

Model	RG-RAP72
<b>Wi-Fi Radio</b>	
6 GHz Wi-Fi	No
5 GHz Wi-Fi	Wi-Fi 4 (IEEE 802.11a/n) Wi-Fi 5 (IEEE 802.11ac) Wi-Fi 6 (IEEE 802.11ax) Wi-Fi 7 (IEEE 802.11be)
2.4 GHz Wi-Fi	Wi-Fi 4 (IEEE 802.11b/g/n) Wi-Fi 6 (IEEE 802.11ax) Wi-Fi 7 (IEEE 802.11be)
Operating band	IEEE 802.11b/g/n/ax/be, 2.400 GHz to 2.4835 GHz IEEE 802.11a/n/ac/ax/be, 5.150 GHz to 5.350 GHz, 5.470 GHz to 5.725 GHz, 5.725 GHz to 5.850 GHz  Note: Available bands vary with countries and regions. To use the preceding frequency bands, ensure that your country or region supports these frequency bands.
Radio design	Dual-radio 4 spatial streams <ul style="list-style-type: none"><li>• 2.4 GHz: 2 x 2, MU-MIMO</li><li>• 5 GHz: 2 x 2, MU-MIMO</li></ul>
FEM	iFEM
6 GHz channel width	No
5 GHz channel width	Auto/20/40/80/160 MHz
2.4 GHz channel width	Auto/20/40 MHz
Maximum wireless data rate	3570 Mbps
6 GHz wireless data rate	No
5 GHz wireless data rate	2882 Mbps

# Hardware Specifications

Model	RG-RAP72
2.4 GHz wireless data rate	688 Mbps
Maximum transmit power	<p>Frequency bands and maximum Effective Isotropic Radiated Power (EIRP):</p> <p>Note: Country specific restrictions apply.</p> <p>European Union &amp; United Kingdom            2400–2483.5 MHz, EIRP ≤ 20 dBm            5150–5350 MHz, EIRP ≤ 23 dBm            5470–5725 MHz, EIRP ≤ 30 dBm</p> <p>Myanmar:            2400–2483.5 MHz, EIRP ≤ 23 dBm            5725–5825 MHz, EIRP ≤ 30 dBm</p> <p>Thailand:            2400–2483.5 MHz, EIRP ≤ 20 dBm            5150–5350 MHz, EIRP ≤ 23 dBm            5470–5725 MHz, EIRP ≤ 30 dBm            5725–5825 MHz, EIRP ≤ 30 dBm</p> <p>Indonesia:            2400–2483.5 MHz, EIRP ≤ 27 dBm            5150–5350 MHz, EIRP ≤ 23 dBm            5725–5825 MHz, EIRP ≤ 23 dBm</p> <p>Egypt:            2400–2483.5 MHz, EIRP ≤ 20 dBm            5150–5350 MHz, EIRP ≤ 23 dBm</p> <p>Vietnam:            2400–2483.5 MHz, EIRP ≤ 23 dBm            5150–5350 MHz, EIRP ≤ 23 dBm            5470–5725 MHz, EIRP ≤ 30 dBm            5725–5850 MHz, EIRP ≤ 30 dBm</p>
Maximum transmit power (6 GHz)	No
Maximum transmit power (5 GHz)	<p>Combined power: 25.7 dBm (single-stream power: 21 dBm)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>
Maximum transmit power (2.4 GHz)	<p>Combined power: 25 dBm (single-stream power: 22 dBm)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>
Coverage range	<p>140 m<sup>2</sup> (1506.95 square ft.)</p> <p>Note: The data is obtained in an ideal environment without obstruction. The signal coverage radius depends on client performance and environmental interference.</p>
Modulation	<p>OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, and 64-QAM @ 48/54 Mbps</p> <p>DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps</p>

# Hardware Specifications

Model	RG-RAP72
	MIMO-OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, and 4096-QAM OFDMA
Receive sensitivity	11b: -91 dBm (1 Mbps), -88 dBm (5.5 Mbps), -85 dBm (11 Mbps) 11a/g: -89 dBm (6 Mbps), -80 dBm (24 Mbps), -76 dBm (36 Mbps), -71 dBm (54 Mbps) 11n: -83 dBm (MCS0), -65 dBm (MCS7), -83 dBm (MCS8), -65 dBm (MCS15) 11ac: 20 MHz: -83 dBm (MCS0), -57 dBm (MCS9) 11ac: 40 MHz: -79 dBm (MCS0), -57 dBm (MCS9) 11ac: 80 MHz: -76 dBm (MCS0), -51 dBm (MCS9) 11ac: 160 MHz: -76 dBm (MCS0), -50 dBm (MCS9) 11ax: 20 MHz: -85 dBm (MCS0), -58 dBm (MCS11) 11ax: 40 MHz: -82 dBm (MCS0), -54 dBm (MCS11) 11ax: 80 MHz: -79 dBm (MCS0), -52 dBm (MCS11) 11ax: 160 MHz: -76 dBm (MCS0), -49 dBm (MCS11) 11be: 20 MHz: -85 dBm (MCS0), -52 dBm (MCS13) 11be: 40 MHz: -82 dBm (MCS0), -49 dBm (MCS13) 11be: 80 MHz: -82 dBm (MCS0), -46 dBm (MCS13) 11be: 160 MHz: -79 dBm (MCS0), -44 dBm (MCS13)
<b>Antenna</b>	
Antenna	2.4 GHz: 2 built-in omnidirectional antennas 5 GHz: 3 built-in omnidirectional antennas
Antenna horizontal orientation	No
Antenna vertical orientation	No
Antenna gain (6 GHz)	No
Antenna gain (5 GHz)	4.44 dBi
Antenna gain (2.4 GHz)	3.23 dBi
<b>Dimensions and Weight</b>	
Product dimensions (diameter x height)	Ø195 mm x 41 mm (Ø7.68 in. x 1.61 in.) (excluding the mounting bracket)
Color	White
Weight	≤ 0.6 kg (1.32 lbs.) (without packaging materials)
Shipping weight	≤ 1 kg (2.2 lbs.)

# Hardware Specifications

Model	RG-RAP72
<b>Port Specifications</b>	
Number of 10/100/1000/2500BASE-T ports	1
Reset button	1
LEDs	1 x system status LED
<b>Power Supply and Consumption</b>	
Power supply	<ul style="list-style-type: none"><li>• DC power adapter</li><li>• PoE/PoE+</li></ul> Note: If both the DC power adapter and PoE/PoE+ are available for power supply, the DC power adapter is preferred.
Local power supply	Yes, one DC power connector (12 V, 1.5 A)
Dimensions of the DC connector	Outer diameter: 5.5 mm (0.22 in.) Inner diameter: 2.1 mm (0.08 in.) Depth: 10 mm (0.39 in.)
PoE In standard	<ul style="list-style-type: none"><li>• IEEE 802.3af (PoE)</li><li>• IEEE 802.3at (PoE+)</li></ul>
PoE budget	No
Maximum power consumption	14 W
<b>Environment and Reliability</b>	
Operating temperature	0°C to 40°C (32°F to 104°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)
Operating humidity	5% RH to 95% RH (non-condensing)
Storage humidity	5% RH to 95% RH (non-condensing)
Mounting options	Ceiling/Wall
IP rating	IP41
Surge protection	Ethernet port: ±2 kV for common mode
MTBF	400,000 hours
<b>Certification and Regulatory Compliance</b>	
RoHS	Yes

# / Hardware Specifications

Model	RG-RAP72
Safety compliance	EN 62368-1
EMC	EN 55032 EN 55035 EN 61000-3-3 EN 61000-3-2 EN 301489-1 EN 301489-3 EN 301489-17
RF	EN 300 328 EN 301 893 EN 300 440
Certification	CE, CB, ISED, cTUVus
<b>System Specifications</b>	
Flash memory	256 MB
RAM	512 MB DDR3

# Software Specifications

Model	RG-RAP72
<b>Basic Configurations</b>	
AP mode	Yes
Routing mode	Yes
Internet access mode	Static IP address Static IPv6 address Dynamic IP address Dynamic IPv6 address PPPoE
<b>Interface</b>	
IPTV transparent transmission	No
<b>Ethernet Interface</b>	
PPPoE clients	Yes
<b>Ethernet Switching</b>	
IEEE 802.1Q VLAN	Yes
<b>WLAN</b>	
Maximum number of associated wireless clients	64 (2.4 GHz) 511 (5 GHz) 511 (2.4 GHz and 5 GHz enabled)
Recommended number of associated wireless clients	<ul style="list-style-type: none"> <li>● Support for IEEE 802.11ax and 160 MHz: <ul style="list-style-type: none"> <li>16 (2.4 GHz)</li> <li>84 (5 GHz)</li> </ul> </li> <li>100 (2.4 GHz and 5 GHz enabled)</li> <li>● Support for IEEE 802.11ax and 80 MHz: <ul style="list-style-type: none"> <li>16 (2.4 GHz)</li> <li>52 (5 GHz)</li> </ul> </li> <li>68 (2.4 GHz and 5 GHz enabled) <ul style="list-style-type: none"> <li>● Support for IEEE 802.11ac: <ul style="list-style-type: none"> <li>12 (2.4 GHz)</li> <li>32 (5 GHz)</li> </ul> </li> </ul> </li> <li>44 (2.4 GHz and 5 GHz enabled)</li> </ul>
Maximum number of SSIDs	8
Radio-based client limiting	Yes
Layer 2 isolation	Yes

# Software Specifications

Model	RG-RAP72
OFDMA	Yes
WMM	Yes
DFS	Yes
MLO	Yes
4K-QAM	Yes
Different SSIDs for the same VLAN	Yes
Enabling/Disabling MLO	Yes
AP load balancing	Yes
Beamforming	Yes
802.11k/v roaming	Yes
Fast transition (802.11r)	Yes
Layer 2 roaming	Yes
Layer 3 roaming	Yes
AI roaming	Yes
PSK authentication	Yes
Static allowlist	Yes
Adjusting the transmit power for beacon and probe frames	Yes
Encryption mode (WPA-PSK, WPA2-PSK, WPA/WPA2-PSK)	Yes
OWE (Enhanced Open) WPA3-SAE	Yes
WPA2-PSK/WPA3-SAE	
Number of blocklists and allowlists based on MAC addresses (single SSID)	256
Number of global blocklists/allowlists	256

# Software Specifications

Model	RG-RAP72
Mesh management	Yes
AP Mesh	Yes
AP portal authentication	Yes
Maximum number of devices that can be managed	300
One-Click Network Optimization	Yes
Static blacklist	Yes
<b>IP Service</b>	
ARP binding	Yes
IPv4 ping	Yes
IPv6 ping	Yes
Traceroute	Yes
Static/Dynamic NAT	Yes
DHCP server	Yes
IPv6	Yes
<b>Authentication</b>	
802.1X authentication	Yes
<b>Network Management and Monitoring</b>	
Wireless repeater mode	Yes
Web login information	Single-device login address: 10.44.77.254 Network-wide login address: 10.44.77.253 Default password: admin
Network-wide configuration and management	Yes
Ruijie Reyee App management	Yes
eWeb management	Yes
Ruijie Cloud management	Yes


## Software Specifications

Model	RG-RAP72
SNMP	Yes
Configuration synchronization among the app, eWeb, and Ruijie Cloud	Yes
Displaying device information on Ruijie Cloud	Yes

## Package Contents

Model	RG-RAP72
<b>Package Contents</b>	
<b>Package Contents</b>	1 x AP 1 x Mounting bracket 4 x Cross pan head screws (ST4.2 x 20 mm) 4 x Plastic expansion anchors ( $\phi$ 9 x 25.4 mm) 1 x User Manual 1 x Warranty Card 1 x Key to security lock 1 x Alignment sticker
<b>Accessories</b>	
<b>Power adapter</b>	No

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 **R**edefine your **e**asy network



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