

# 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 Reyee Mesh, standalone portal, and AI roaming features

## Highlight Features

Next-Gen Speed, Within Reach



WiFi-7

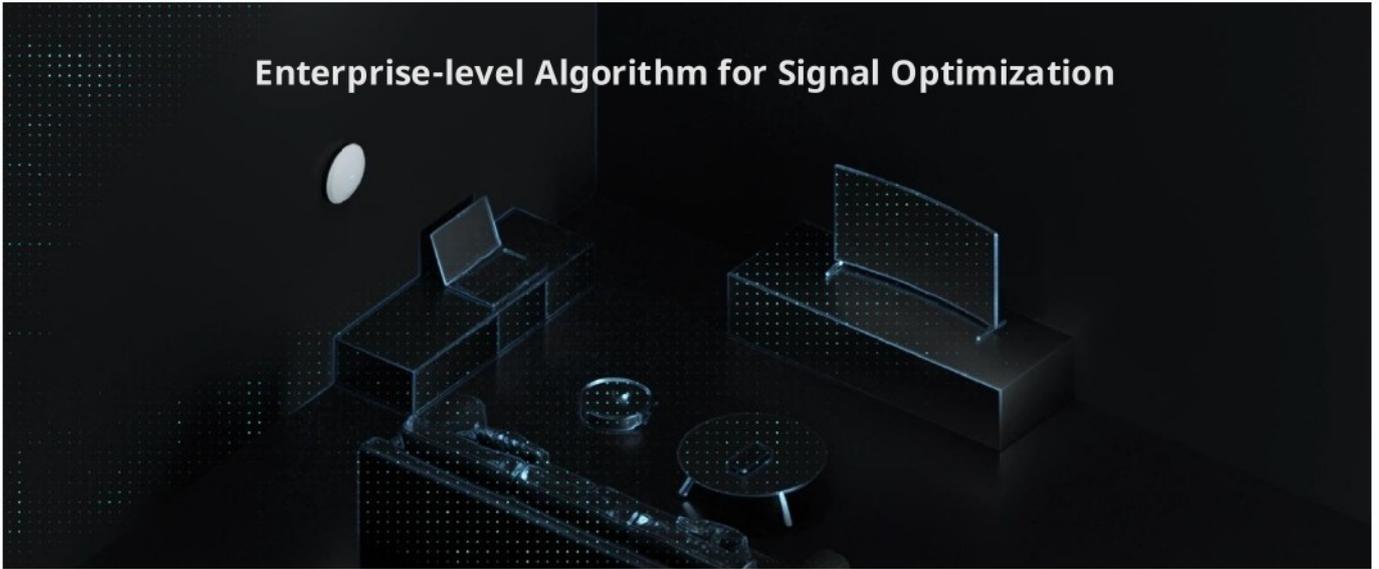
Pro Performance, Starter Price

Wi-Fi 7 | 2.5 GbE Port | BE3600



## Highlight Features

### Enterprise-level Algorithm for Signal Optimization



### Pro Performance, Starter Price

Coverage: 110 m<sup>2</sup> vs **Standard 140 m<sup>2</sup> @ 5 GHz**



Traditional WiFi 6 devices: 110 m<sup>2</sup> / 1184.03 sq. ft

**RAP72: 140 m<sup>2</sup> / 1506.95 sq. ft**

**Actual Speed: 2,714 Mbps** (Lab Environment)

# 2700 Mbps



# Highlight Features

## Where Minimalism Meets Signal Mastery

From Polygon Concepts to  
Optimal Omni-Directional Form



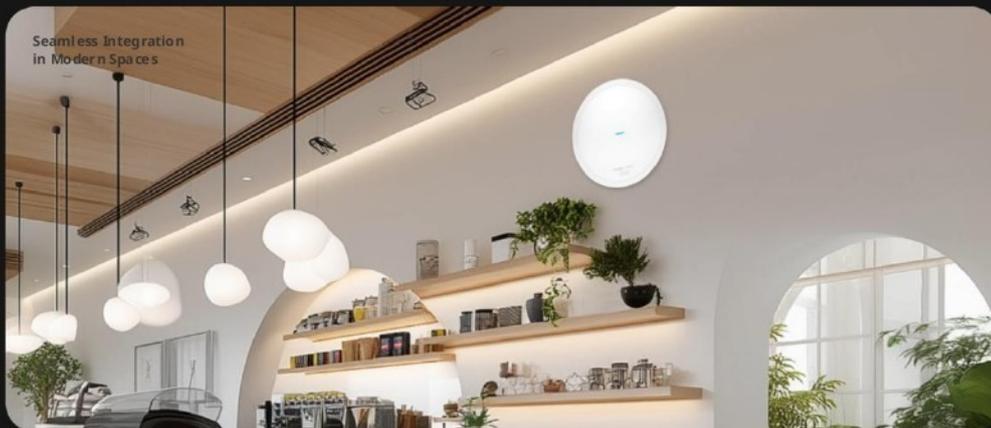
## Where Minimalism Meets Signal Mastery

Seamless Integration  
in Modern Spaces



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# Highlight Features

## Where Minimalism Meets Signal Mastery



Seamless Integration  
in Modern Spaces



## One More Device, Endless Possibilities



## Evolving Design, Consistent Excellence



# Highlight Features

## 4K QAM

Delivers up to 20% faster data speeds for ultra-responsive streaming and gaming

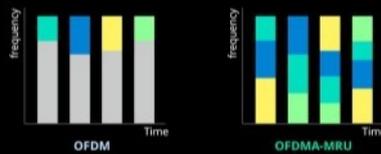


## Multi-Link Operation

Ensures seamless connectivity and reduced lag by simultaneously bonding 2.4 GHz and 5 GHz bands

## Preamble Puncturing

Maximizes usable bandwidth in crowded environments by bypassing interference-prone channels



## Multiple Resource Units

Boosts network efficiency and capacity for smooth performance with multiple connected devices

## Cloud, Make Your Business Easy

**Reyee Mesh**  
Reduce Cabling Costs

**WIO 3**  
Powered by AI

**Standalone AP Portal**  
Free & Easy

**Heatmap**  
Visualizing the Installation Process

## 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 WPA2-PSK/WPA3-SAE	Yes
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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