

# RG-RAP72Pro-OD

## BE5040 Wi-Fi 7 Indoor/Outdoor Versatile Access Point



### Highlights

- AI-Powered Wi-Fi 7 Versatile Outdoor/Indoor Mesh AP
- Wall or Pole Mounting to Fit in Any Location
- IP65 Weatherproof Rating, Delivering Consistent Protection and Signal Stability
- Built-in Antennas for Coverage Where Needed
- Tailored for Retail Businesses with Reyee Mesh, Standalone Portal, and AI Roaming

Features

# Highlight Features



## Highlight Features



### Elegant Design with Cutting-Edge Core



# Highlight Features



MLO on, latency lower avg.  
**55.19%**  
with the same interference, compared to a single 5 GHz band.

MLO on, avg. loss rate reduced by  
**35.71%**  
with the same interference, compared to a single 5 GHz band.

Speed test  
**2.3G**  
Maximum transmission performance.

**Wi-Fi 7's MLO technology** leverages multiple frequency bands, allowing clients to connect to the optimal band for better performance.



**Preamble Puncturing technology**



**Measured Performance**

**250%** ↑

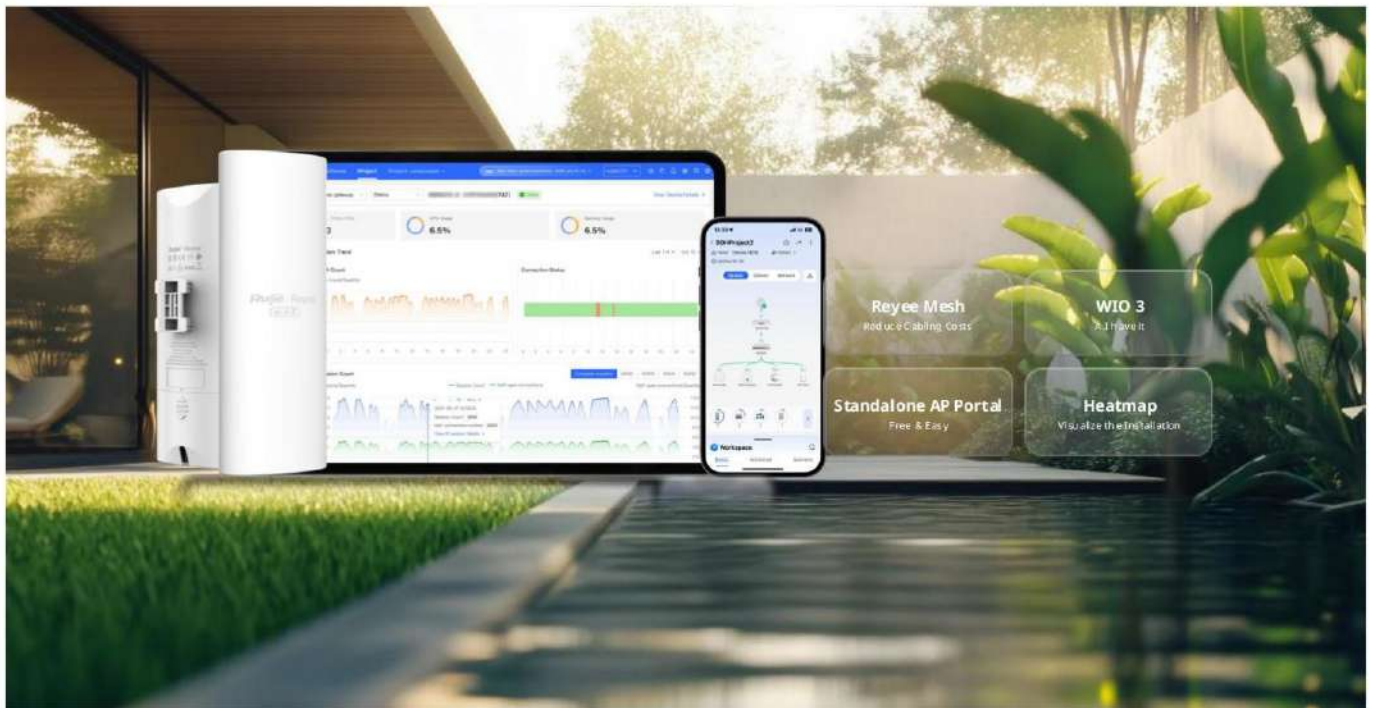
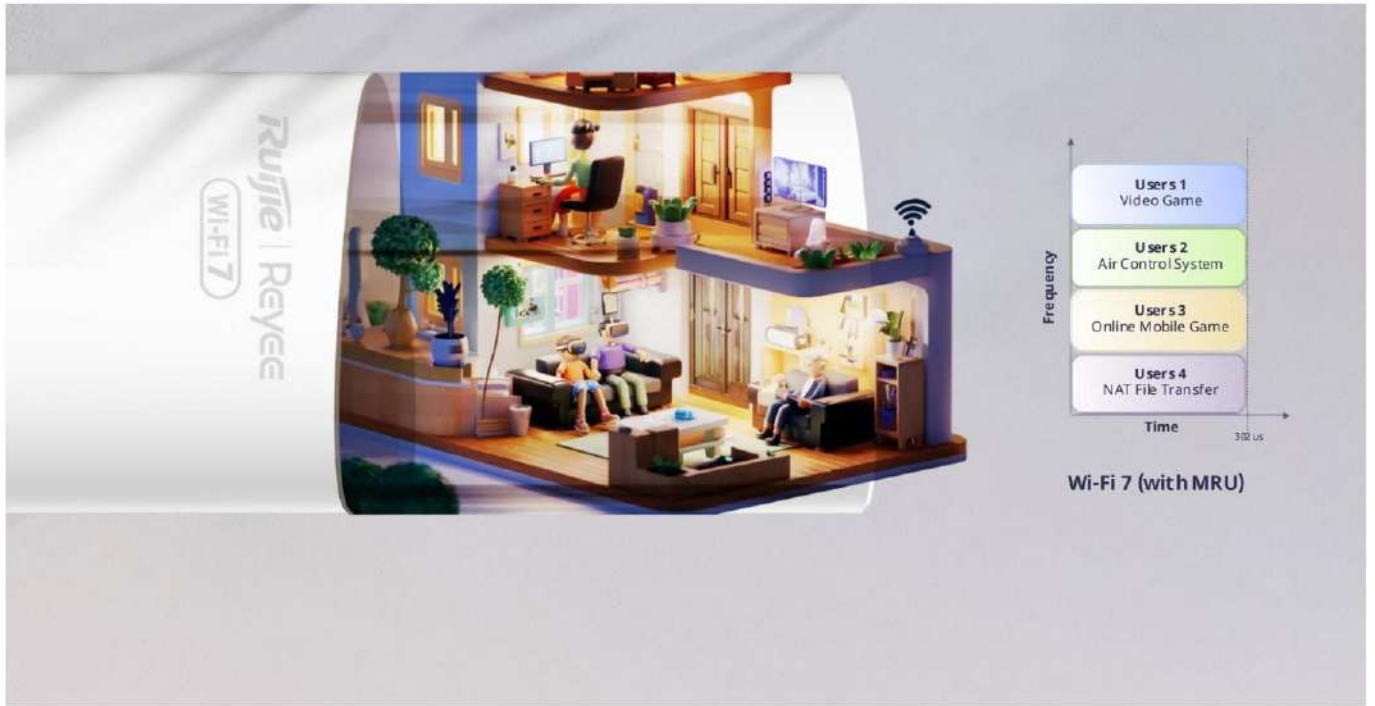
with 98.3M bps

without 2.88M bps

\* Actual test on the average of 100 test results. The test environment is 2.4 GHz band, 20 MHz channel width, 100% duty cycle, and the test results are for reference only. Actual performance may vary.

**Preamble Puncturing technology** blocks interference-affected channels and enables cross-frequency bonding of uninterrupted channels, improving overall channel utilization by up to 7 times.

# Highlight Features



## Product Information

Model	RG-RAP72Pro-OD
Product Type	Outdoor

## Hardware Specifications

Model	RG-RAP72Pro-OD
<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 5 spatial streams <ul style="list-style-type: none"><li>• 2.4 GHz: 2 x 2, MU-MIMO</li><li>• 5 GHz: 3 x 3, MU-MIMO</li></ul>
FEM	2.4 GHz: 2 x eFEM 5 GHz: 3 x eFEM
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	5011 Mbps
6 GHz wireless data rate	No
5 GHz wireless data rate	4323 Mbps

# Hardware Specifications

Model	RG-RAP72Pro-OD
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            5470–5725 MHz, EIRP ≤ 30 dBm</p> <p>United States:            2400–2483.5 MHz, max. output power ≤ 30 dBm &amp; EIRP ≤ 36 dBm            5150–5250 MHz, max. output power ≤ 30 dBm &amp; EIRP ≤ 36 dBm            5250–5350 MHz, max. output power &lt; 24 dBm &amp; EIRP ≤ 30 dBm            5470–5725 MHz, max. output power &lt; 24 dBm &amp; EIRP ≤ 30 dBm            5725–5850 MHz, max. output power ≤ 30 dBm &amp; EIRP ≤ 36 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            5470–5725 MHz, EIRP ≤ 30 dBm            5725–5825 MHz, EIRP ≤ 30 dBm</p> <p>Indonesia:            2400–2483.5 MHz, EIRP ≤ 36 dBm            5725–5825 MHz, EIRP ≤ 36 dBm</p> <p>Egypt:            2400–2483.5 MHz, EIRP ≤ 20 dBm            5150–5350 MHz, EIRP ≤ 23 dBm</p>
Maximum transmit power (6 GHz)	No
Maximum transmit power (5 GHz)	<p>Combined power: 27.7 dBm (single-stream power: 23 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: 26 dBm (single-stream power: 23 dBm)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>
Coverage range	<p>5 GHz max: 300 m (984.25 ft.)            2.4 GHz max: 100 m (328.08 ft.)            5 GHz recommended: 150 m (492.13 ft.)            2.4 GHz recommended: 50 m (164.04 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>

# Hardware Specifications

Model	RG-RAP72Pro-OD
<b>Modulation</b>	<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> <p>MIMO-OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, and 4096-QAM OFDMA</p>
<b>Receive sensitivity</b>	<p>11b: -91 dBm (1 Mbps), -88 dBm (5.5 Mbps), -85 dBm (11 Mbps)</p> <p>11a/g: -89 dBm (6 Mbps), -80 dBm (24 Mbps), -76 dBm (36 Mbps), -71 dBm (54 Mbps)</p> <p>11n: -83 dBm (MCS0), -65 dBm (MCS7), -83 dBm (MCS8), -65 dBm (MCS15)</p> <p>11ac: 20 MHz: -83 dBm (MCS0), -57 dBm (MCS9)</p> <p>11ac: 40 MHz: -79 dBm (MCS0), -57 dBm (MCS9)</p> <p>11ac: 80 MHz: -76 dBm (MCS0), -51 dBm (MCS9)</p> <p>11ac: 160 MHz: -76 dBm (MCS0), -50 dBm (MCS9)</p> <p>11ax: 20 MHz: -85 dBm (MCS0), -58 dBm (MCS11)</p> <p>11ax: 40 MHz: -82 dBm (MCS0), -54 dBm (MCS11)</p> <p>11ax: 80 MHz: -79 dBm (MCS0), -52 dBm (MCS11)</p> <p>11ax: 160 MHz: -76 dBm (MCS0), -49 dBm (MCS11)</p> <p>11be: 20 MHz: -85 dBm (MCS0), -52 dBm (MCS13)</p> <p>11be: 40 MHz: -82 dBm (MCS0), -49 dBm (MCS13)</p> <p>11be: 80 MHz: -82 dBm (MCS0), -46 dBm (MCS13)</p> <p>11be: 160 MHz: -79 dBm (MCS0), -44 dBm (MCS13)</p>
<b>Antenna</b>	
<b>Antenna</b>	<p>5 GHz: 1 built-in omnidirectional antenna</p> <p>Integrated 2.4 GHz and 5 GHz: 2 built-in omnidirectional antennas</p>
<b>Antenna horizontal orientation</b>	No
<b>Antenna vertical orientation</b>	No
<b>Antenna gain (6 GHz)</b>	No
<b>Antenna gain (5 GHz)</b>	6.28 dBi
<b>Antenna gain (2.4 GHz)</b>	3.62 dBi
<b>Dimensions and Weight</b>	
<b>Product dimensions (W x D x H)</b>	90 mm x 46 mm x 239 mm (3.54 in. x 1.81 in. x 9.41 in.) (excluding the mounting bracket)

# Hardware Specifications

Model	RG-RAP72Pro-OD
Color	White
Weight	≤ 0.7 kg (1.54 lbs.) (without packaging materials)
Shipping weight	≤ 1 kg (2.20 lbs)
<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	PoE/PoE+
Local power supply	No
Dimensions of the DC connector	No
PoE In standard	<ul style="list-style-type: none"><li>• IEEE 802.3af (PoE)</li></ul> Note: Radio transmission and reception is limited to 1T1R at 2.4 GHz and 2T2R at 5 GHz. <ul style="list-style-type: none"><li>• IEEE 802.3at (PoE+)</li></ul>
PoE budget	No
Maximum power consumption	21 W
<b>Environment and Reliability</b>	
Operating temperature	-30°C to +65°C (-22°F to +149°F)
Storage temperature	-40°C to +85°C (-40°F to +185°F)
Operating humidity	0% RH to 100% RH (non-condensing)
Storage humidity	0% RH to 100% RH (non-condensing)
Mounting options	Wall/Pole
IP rating	IP65
Surge protection	Ethernet port: ±4 kV for common mode

# Hardware Specifications

Model	RG-RAP72Pro-OD
MTBF	400,000 hours
<b>Certification and Regulatory Compliance</b>	
RoHS	Yes
Safety compliance	EN 62368-1
EMC	EN 55032 EN 55035 EN IEC 61000-3-2 EN 61000-3-3 EN 301489-1 EN 301489-3 EN 301489-17
RF	EN 300 328 EN 301 893 EN 300 440 Draft EN 303 687
Certification	CE, FCC, ISED, cTUVus
<b>System Specifications</b>	
Flash memory	256 MB
RAM	512 MB DDR3

# Software Specifications

Model	RG-RAP72Pro-OD
<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>94 (5 GHz)</li> </ul> </li> <li>110 (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>64 (5 GHz)</li> </ul> </li> <li>80 (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>8 (2.4 GHz)</li> <li>32 (5 GHz)</li> </ul> </li> </ul> </li> <li>40 (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-RAP72Pro-OD
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-RAP72Pro-OD
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
<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
SNMP	Yes

## Software Specifications

Model	RG-RAP72Pro-OD
Configuration synchronization among the app, eWeb, and Ruijie Cloud	Yes
Displaying device information on Ruijie Cloud	Yes

# Package Contents

Model	RG-RAP72Pro-OD
<b>Package Contents</b>	
<b>Package Contents</b>	1 x AP 1 x Mounting bracket 1 x Metal hose clamp 2 x Cross pan head screws (ST3.5 x 25 mm) 2 x Plastic expansion anchors ( $\phi$ 6 x 25 mm) 1 x User Manual 1 x Warranty Card
<b>Accessories</b>	
<b>Power adapter</b>	No

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**Ruijie Networks Co., Ltd.**

Official Website: <https://Reyee.Ruijie.com>