

RG-RAP72Pro-OD

BE5040 Wi-Fi 7 Indoor/Outdoor Versatile Access Point

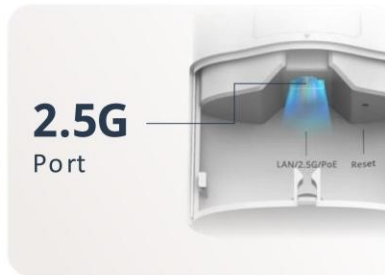


Highlights

- 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
Maximize 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

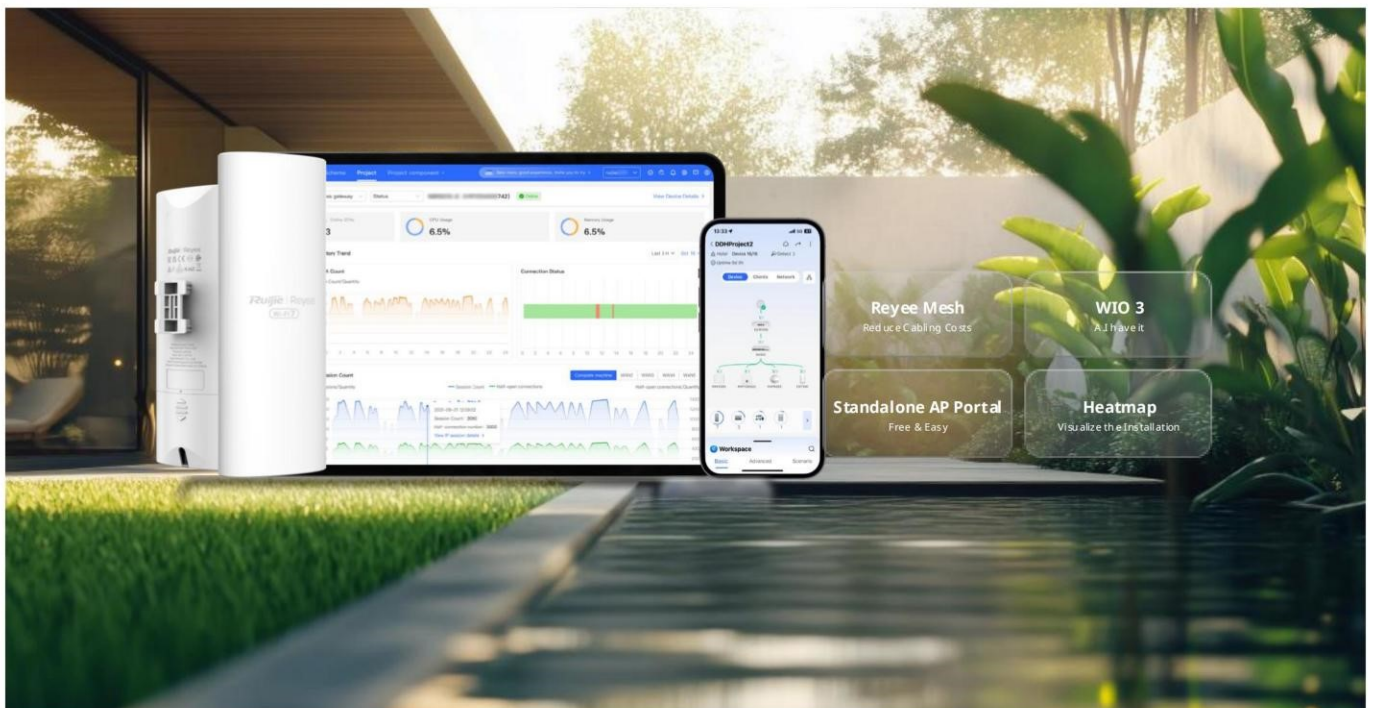


Measured Performance
250 % ↑
with 983Mbps
without 280Mbps

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

*Actual test is under adjacent interference of 40% 20 MHz bandwidth, showing that puncturing technology can achieve up to 250% performance improvement.

Highlight Features



Product Information

| Model | RG-RAP72Pro-OD |
|--------------|----------------|
| Product Type | Outdoor |

Hardware Specifications

| Model | RG-RAP72Pro-OD |
|----------------------------|---|
| Wi-Fi Radio | |
| 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">• 2.4 GHz: 2 x 2, MU-MIMO• 5 GHz: 3 x 3, MU-MIMO |
| 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 & 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 & EIRP ≤ 36 dBm 5150–5250 MHz, max. output power ≤ 30 dBm & EIRP ≤ 36 dBm 5250–5350 MHz, max. output power < 24 dBm & EIRP ≤ 30 dBm 5470–5725 MHz, max. output power < 24 dBm & EIRP ≤ 30 dBm 5725–5850 MHz, max. output power ≤ 30 dBm & 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> <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) | Combined power: 27.7 dBm (single-stream power: 23 dBm) Note: The transmit power varies according to regulations in different countries and regions. |
| Maximum transmit power (2.4 GHz) | Combined power: 26 dBm (single-stream power: 23 dBm) Note: The transmit power varies according to regulations in different countries and regions. |
| Coverage range | 5 GHz max: 300 m (984.25 ft.) 2.4 GHz max: 100 m (328.08 ft.) |

Hardware Specifications

| Model | RG-RAP72Pro-OD |
|---------------------------------------|--|
| | <p>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> |
| Modulation | <p>OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, and 64-QAM @ 48/54 Mbps DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11 Mbps MIMO-OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, and 4096-QAM OFDMA</p> |
| Receive sensitivity | <p>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)</p> |
| Antenna | |
| Antenna | <p>5 GHz: 1 built-in omnidirectional antenna Integrated 2.4 GHz and 5 GHz: 2 built-in omnidirectional antennas</p> |
| Antenna horizontal orientation | No |
| Antenna vertical orientation | No |
| Antenna gain (6 GHz) | No |
| Antenna gain (5 GHz) | 6.28 dBi |
| Antenna gain (2.4 GHz) | 3.62 dBi |

Hardware Specifications

| Model | RG-RAP72Pro-OD |
|--|--|
| Dimensions and Weight | |
| Product dimensions (W x D x H) | 90 mm x 46 mm x 239 mm (3.54 in. x 1.81 in. x 9.41 in.) (excluding the mounting bracket) |
| Color | White |
| Weight | ≤ 0.7 kg (1.54 lbs.) (without packaging materials) |
| Shipping weight | ≤ 1 kg (2.20 lbs) |
| Port Specifications | |
| Number of 10/100/1000/2500BASE-T ports | 1 |
| Reset button | 1 |
| LEDs | 1 x system status LED |
| Power Supply and Consumption | |
| Power supply | PoE/PoE+ |
| Local power supply | No |
| Dimensions of the DC connector | No |
| PoE In standard | <ul style="list-style-type: none">• IEEE 802.3af (PoE) Note: Radio transmission and reception is limited to 1T1R at 2.4 GHz and 2T2R at 5 GHz. <ul style="list-style-type: none">• IEEE 802.3at (PoE+) |
| PoE budget | No |
| Maximum power consumption | 21 W |
| Environment and Reliability | |
| 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 |

Hardware Specifications

| Model | RG-RAP72Pro-OD |
|--|--|
| IP rating | IP65 |
| Surge protection | Ethernet port: ± 4 kV for common mode |
| MTBF | 400,000 hours |
| Certification and Regulatory Compliance | |
| 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, CB, ISED, cTUVus |
| System Specifications | |
| Flash memory | 256 MB |
| RAM | 512 MB DDR3 |

Software Specifications

| Model | RG-RAP72Pro-OD |
|---|---|
| Basic Configurations | |
| AP mode | Yes |
| Routing mode | Yes |
| Internet access mode | Static IP address Static IPv6 address Dynamic IP address Dynamic IPv6 address PPPoE |
| Interface | |
| IPTV transparent transmission | No |
| Ethernet Interface | |
| PPPoE clients | Yes |
| Ethernet Switching | |
| IEEE 802.1Q VLAN | Yes |
| WLAN | |
| 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"> ● Support for IEEE 802.11ax and 160 MHz: <ul style="list-style-type: none"> 16 (2.4 GHz) 94 (5 GHz) 110 (2.4 GHz and 5 GHz enabled) ● Support for IEEE 802.11ax and 80 MHz: <ul style="list-style-type: none"> 16 (2.4 GHz) 64 (5 GHz) 80 (2.4 GHz and 5 GHz enabled) <ul style="list-style-type: none"> ● Support for IEEE 802.11ac: <ul style="list-style-type: none"> 8 (2.4 GHz) 32 (5 GHz) 40 (2.4 GHz and 5 GHz enabled) |
| Maximum number of SSIDs | 8 |
| Radio-based client limiting | Yes |
| Layer 2 isolation | Yes |

Software Specifications

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|--|----------------|
| 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-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 |
| IP Service | |
| ARP binding | Yes |
| IPv4 ping | Yes |
| IPv6 ping | Yes |
| Traceroute | Yes |
| Static/Dynamic NAT | Yes |
| DHCP server | Yes |
| IPv6 | Yes |
| Authentication | |
| 802.1X authentication | Yes |
| Network Management and Monitoring | |
| 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-RAP72Pro-OD |
|---|----------------|
| SNMP | Yes |
| Configuration synchronization among the app, eWeb, and Ruijie Cloud | Yes |
| Displaying device information on Ruijie Cloud | Yes |

/ Package Contents

| Model | RG-RAP72Pro-OD |
|-------------------------|--|
| Package Contents | |
| Package Contents | 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 (ϕ 6 x 25 mm) 1 x User Manual 1 x Warranty Card |
| Accessories | |
| Power adapter | No |

Ruijie | ReYee

 Redefine your easy network



Ruijie Networks Co., Ltd.

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