

RG-RAP72Pro-OD BE5040 Outdoor Access Point

DATASHEET

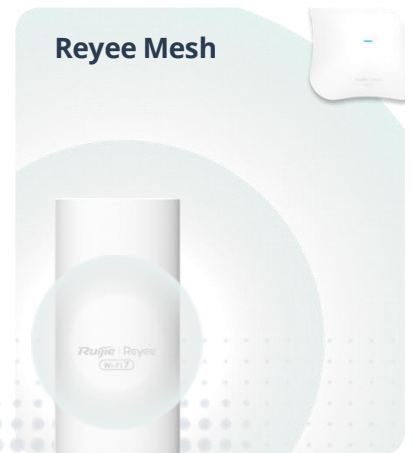
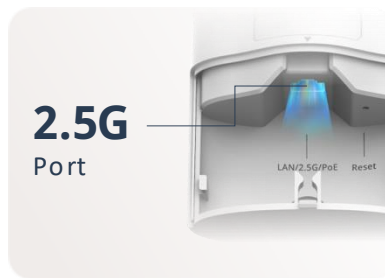
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Highlights

- Wi-Fi 7 BE5040 Versatile Outdoor/Indoor Mesh AP for Villas and Retail Businesses
- Wall or Pole Mounting to Fit in Any Location
- IP65 Weatherproof Rating, Delivering Consistent Protection and Signal Stability
- Build-in Antennas for Customized Coverage Where Needed
- Tailored for Retail Businesses with Reyee AP Mesh, Standalone Portal, and AI Roaming Features

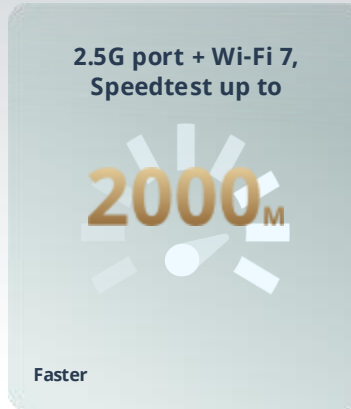
Highlight Features



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

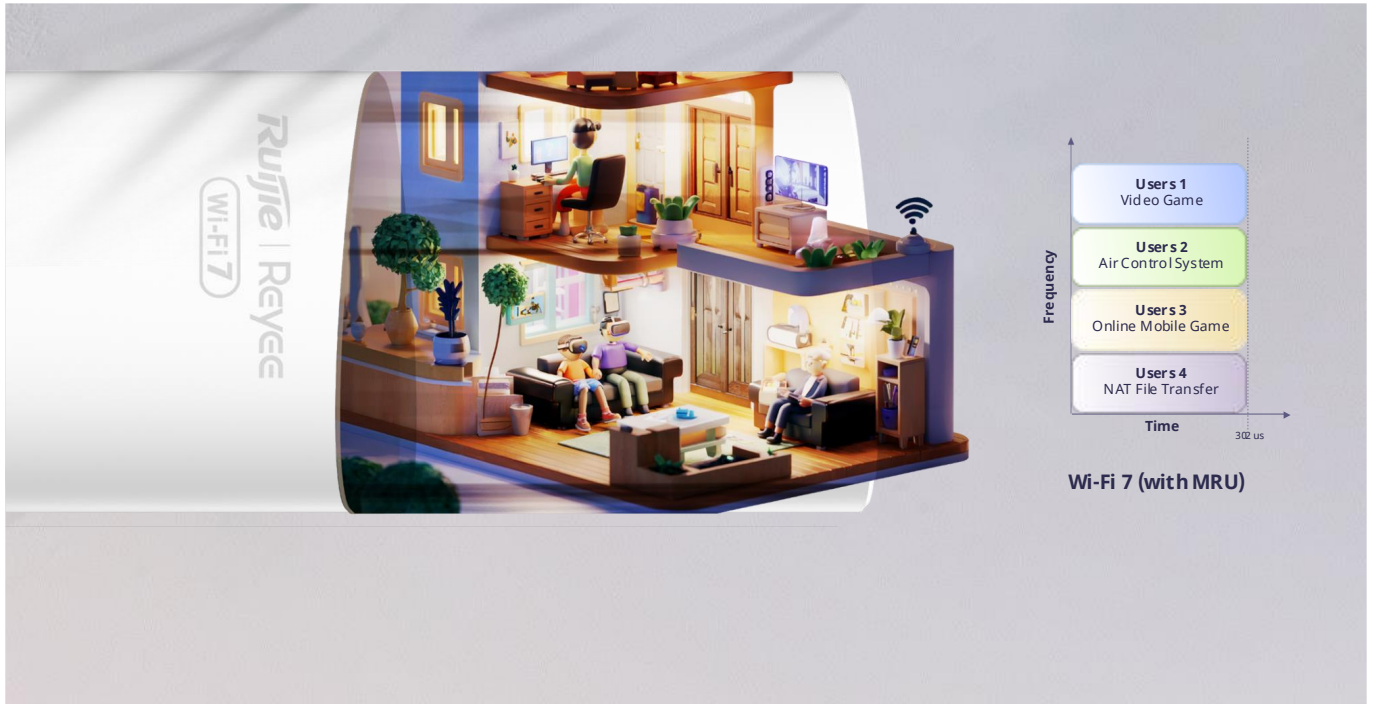


Measured Performance
250 % ↑
with 983Mbps
without 280Mbps

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

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



Ruijie | Reyee
WI-FI 7

Reyee Mesh
Reduce Cabling Costs

WIO 3
AI Have it

Standalone AP Portal
Free & Easy

Heatmap
Visualize the Installation

Specifications

Model		RG-RAP72Pro-OD
Hardware Specifications		
Wi-Fi Protocols	5 GHz	Wi-Fi 4 : IEEE 802.11a/n Wi-Fi 5 : IEEE 802.11ac Wave2 Wi-Fi 6 : IEEE 802.11ax Wi-Fi 7 : IEEE 802.11be
	2.4 GHz	Wi-Fi 4 : IEEE 802.11b/g/n Wi-Fi 6 : IEEE 802.11ax Wi-Fi 7 : IEEE 802.11be
Operating Frequency Bands (country-specific restrictions apply)	5 GHz	5.150 GHz to 5.350 GHz, 5.470 GHz to 5.725 GHz, 5.725 GHz to 5.850 GHz
	2.4 GHz	2.400 GHz to 2.4835 GHz
Spatial Streams	5 GHz	3 spatial streams, 3x3 MIMO
	2.4 GHz	2 spatial streams, 2x2 MIMO
Antenna	Omni-directional Antenna	Yes
	5 GHz Antenna Gain	6.28 dBi
	2.4 GHz Antenna Gain	3.62 dBi
Channel Width	5 GHz	Auto/20 MHz/40 MHz/80 MHz/160 MHz
	2.4 GHz	Auto/20 MHz/40 MHz
Data Rate	Max. Throughput	5011 Mbps
	5 GHz	4323 Mbps
	2.4 GHz	688 Mbps
Max. Transmit Power	5 GHz	≤200 mW (23 dBm)
	2.4 GHz	≤200 mW (23 dBm)
Modulation	Modulation	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

Specifications

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Hardware Specifications		
<p>Max. Transmit Power</p>	<p>Standard format</p>	<p>Frequency bands using and the max. EIRP: Note: Country-specific restrictions apply. 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>Receiver Sensitivity</p>	<p>Receiver Sensitivity</p>	<p>11b: -91 dBm (1Mbps), -88 dBm (5.5Mbps), -85 dBm (11Mbps) 11a/g: -89dBm (6Mbps), -80 dBm (24Mbps), -76 dBm (36Mbps), -71 dBm (54Mbps) 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>

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Hardware Specifications		
Dimensions (W x D x H)	Dimensions (excluding mounting kits)	90 mm x 46 mm x 239 mm (3.54 in. x 1.81 in. x 9.41 in.)
Weight	Weight (excluding mounting kits)	≤ 0.7 kg (1.54 lbs.)
Service Ports	Number of 10/100/1000BASE-T Ports	0
	Number of 10/100/1000/2500BASE-T Ports	1
	Number of 100/1000/2.5G/5G/10GBASE-T Ports	0
	Number of 1GE SFP Ports	0
Power Supply	DC (Local Power)	No
	DC Connector Dimensions	No
	802.3af (PoE)	Yes (2.4 GHz: 1T1R; 5 GHz: 2T2R)
	802.3at (PoE+)	Yes
	802.3bt (PoE++)	N/A
	48 V Passive PoE	N/A
PoE Out	Max. PoE Wattage by PSE	No
Power Consumption	Power Consumption	< 21 W
Power Adapter	Power Adapter	No
Button	Button	1 × Reset button
Status LED	Status LED	1 × system status LED (blue)

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Hardware Specifications		
Environment	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	Ceiling-mount	No
	Wall-mount	Yes
	Pole-mount	Yes
Compliance Standards	Health	EN IEC 62311:2020
	Spectrum	EN 300 328 V2.2.2.2 EN 301 893 V2.1.1 EN 300 440 V2.2.1 Draft EN 303 687 V1.0.0
Weatherproof	IP Rating	IP65
	Lightning Protection/ Surge	±4 kV
Software Specifications		
Operating Mode (AP Mode and Router Mode)	Router Mode	Yes
	AP Mode	Yes
WLAN	Recommended Number of Clients	BW160 11be/ax: 16 (2.4 GHz) + 94 (5 GHz) = 110 BW80 11ax: 16 (2.4 GHz) + 64 (5 GHz) = 80 11ac: 8 (2.4 GHz) + 32 (5 GHz) = 40
	Max. Number of SSIDs	8
	Radio-based STA Limit	Yes

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Software Specifications		
WLAN	Layer 2 Client Isolation	Yes
	OFDMA Subcarrier	Yes
	OFDMA	Yes
	Target Wake Time (TWT)	No
	Wi-Fi Multimedia (WMM)	Yes
	802.1Q VLAN	Yes
	Multi-Link Operation (MLO)	Yes
	4K-QAM	Yes
	Same SSID for Different VLANs	Yes
Roaming	802.11k/v	Yes
	802.11r	Yes
	Layer 2 Roaming	Yes
	Layer 3 Roaming	Yes
	AI Roaming	Yes
Security	PSK Authentication	Yes
	Static Blocklist and Allowlist	Yes
	WPA (TKIP), WPA2 (AES), and WPA-PSK	Yes
	OWE (Enhanced Open) WPA3-SAE WPA2-PSK/WPA3-SAE	Yes

Specifications

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Software Specifications		
Security	802.1X	Yes
	ARP Check	No
	IP Source Guard	No
	LLDP	No
	Static ARP Binding	Yes
	Proxy ARP	No
	Ping	Yes
	Traceroute	Yes
Routing	NAT	Yes
	Static IP Address	Yes
	PPPoE Client PPPoE Dial-up	Yes
	DHCP Server	Yes
AP Mesh	Mesh Management	Yes
	Reyee Mesh	Yes
Standalone Portal	Captive Portal	Yes
	Bandwidth Limit	Yes
	Data Quota	No
Management and Maintenance	Default Access/ Password	Yes
	No. of APs on a Self-Organizing Network	300
	Unified Networking for All Network Equipment	Yes
	Local or Remote Management via Ruijie Reyee App	Yes

Specifications

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Software Specifications		
Management and Maintenance	Local Management via the Web Interface	Yes
	Remote Management via Ruijie Cloud	Yes
	SNMP	Yes
Platform Management Features	Optimization of Channel, Transmit Power, and Management Frame Power Settings. Both Pre- and Pro-Optimization Settings are Displayed.	Yes
	Unified Configuration via Ruijie Cloud	Yes
	Unified Monitoring via Ruijie Cloud	Yes
Others		
Flash	Flash	256 MB
Memory	Memory	512 MB
Color of AP Enclosure	Color of AP Enclosure	Warm White

Ruijie | ReYee

 **Redefine your easy network**

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