

Ruijie | Reyee

# RG-RAP72Pro-OD BE5040 Outdoor Access Point

DATASHEET

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**Highlights**

# Specifications

Model		RG-RAP72Pro-OD
<b>Hardware Specifications</b>		
<b>Wi-Fi Protocols</b>	5 GHz	Wi-Fi4: IEEE 802.11 a/n Wi-Fi5: IEEE 802.11 ac Wave2 Wi-Fi6: IEEE 802.11 ax Wi-Fi7: IEEE 802.11be
	2.4 GHz	Wi-Fi4: IEEE 802.11 b/g/n Wi-Fi6: IEEE 802.11 ax Wi-Fi7: IEEE 802.11be
<b>Operating Frequency Bands (country-specific restrictions apply)</b>	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
<b>Spatial Streams</b>	5 GHz	3 spatial streams, 3x3 MIMO
	2.4 GHz	2 spatial streams, 2x2 MIMO
<b>Antenna</b>	Omni-directional	Yes
	5 GHz Antenna Gain	6.28dBi
	2.4 GHz Antenna Gain	3.62dBi
<b>Channel Width</b>	5 GHz	Auto/20/40/80/160 MHz
	2.4 GHz	Auto/20/40 MHz
<b>Data Rate</b>	Max Throughput	5011Mbps
	5 GHz	4323Mbps
	2.4 GHz	688Mbps
<b>Max. Transmit Power</b>	5 GHz	23dBm
	2.4 GHz	23dBm
<b>Modulation</b>	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

Model		RG-RAP72Pro-OD
<b>Hardware Specifications</b>		
<b>Receiver Sensitivity</b>	Receiver Sensitivity	11b: -91dBm(1Mbps), -88dBm(5.5Mbps), -85dBm(11Mbps) 11a/g: -89dBm(6Mbps), -80dBm(24Mbps), -76dBm(36Mbps), -71dBm(54Mbps) 11n: -83dBm(MCS0), -65dBm(MCS7), -83dBm(MCS8), -65dBm(MCS15) 11ac: 20MHz: -83dBm(MCS0), -57dBm(MCS9) 11ac: 40MHz: -79dBm(MCS0), -57dBm(MCS9) 11ac: 80MHz: -76dBm(MCS0), -51dBm(MCS9) 11ac: 160MHz: -76dBm(MCS0), -50dBm(MCS9) 11ax: 20MHz: -85dBm(MCS0), -58dBm(MCS11) 11ax: 40MHz: -82dBm(MCS0), -54dBm(MCS11) 11ax: 80MHz: -79dBm(MCS0), -52dBm(MCS11) 11ax: 160MHz: -76dBm(MCS0), -49dBm(MCS11) 11be: 20MHz: -85dBm(MCS0), -52dBm(MCS13) 11be: 40MHz: -82dBm(MCS0), -49dBm(MCS13) 11be: 80MHz: -82dBm(MCS0), -46dBm(MCS13) 11be: 160MHz: -79dBm(MCS0), -44dBm(MCS13)
<b>Dimensions (W x D x H)</b>	Dimensions (excluding mounting kits)	239 mm x 90 mm x 46 mm (9.41 in. x 3.54 in. x 1.81 in.)
<b>Weight</b>	excluding mounting kits	≤ 0.7 kg (1.54 lbs.)
<b>Service Ports</b>	Number of 10/100/1000/2500BASE-T Ports	1
<b>Power Supply</b>	DC(Local Power)	No
	DC Port Dimensions	No
	802.3af	Yes(2 GHz: 1T1R; 5 GHz: 2T2R)
	802.3at	Yes
	802.3bt	N/A
	48 V passive PoE	N/A
<b>PoE Out</b>	Max. PoE Wattage by PSE	No
<b>Power Consumption</b>	Power Consumption	< 21W
<b>Power Adapter</b>	Power Adapter	No

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Model		RG-RAP72Pro-OD
<b>Hardware Specifications</b>		
<b>Buttons</b>	Button	1 × Factory reset
<b>LEDs</b>	LEDs	1 × System LED indicator(blue)
<b>Environment</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% to 100% (non-condensing)
	Storage Humidity	0% to 100% (non-condensing)
<b>Mounting</b>	Ceiling-mount	No
	Wall-mount	Yes
	Pole-mount	Yes
<b>Compliance Standards</b>	Health	EN IEC 62311:2020
	Spectrum	EN 300 328 V2.2.2.2.2 EN 301 893 V2.1.1 EN 300 440 V2.2.1 Draft EN 303 687 V1.0.0
<b>Weatherproof</b>	IP Rating	IP65
	Lightning Protection/ Surge	±4 KV
<b>Software Specifications</b>		
<b>Operating Mode (AP Mode and Router Mode)</b>	Router Mode	Yes
	AP Mode	Yes
<b>WLAN</b>	Recommended Number of Clients	BW160 11BE/AX:16(2.4G)+94(5G)=110 BW80 11AX: 16(2.4G)+64(5G)=80 11AC: 8(2.4G)+32(5G)=40
	Max. Number of SSIDs	8
	Radio-based STA Limit	Yes

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<b>Software Specifications</b>		
<b>WLAN</b>	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
<b>Roaming</b>	802.11k/v	Yes
	802.11r	Yes
	Layer 2 Roaming	Yes
	Layer 3 Roaming	Yes
	AI Roaming	Yes
<b>Security</b>	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

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<b>Software Specifications</b>		
<b>Security</b>	DHCP Snooping	Yes
	802.1X	Yes
	ARP Check	No
	IP Source Guard	No
	LLDP	No
	Static ARP Binding	Yes
	Proxy ARP	No
	Ping	Yes
	Traceroute	Yes
<b>Routing</b>	NAT	Yes
	Static IP Address	Yes
	DHCP Server	Yes
	PPPoE Client PPPoE Dial-up	Yes
<b>AP Mesh</b>	Mesh Management	Yes
	Reyee Mesh	Yes
<b>Standalone Portal</b>	Captive Portal	Yes
	Bandwidth Limit	Yes
	Data Quota	No
<b>Management and Maintenance</b>	Default Access/ Password	Yes
	No. of APs on a Self-Organizing Network	300

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<b>Software Specifications</b>		
<b>Platform Management Features</b>	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
<b>Others</b>		
<b>Flash</b>	Flash	256MB
<b>Memory</b>	Memory	512MB
<b>Color of AP Enclosure</b>	Color of AP Enclosure	Warm White

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