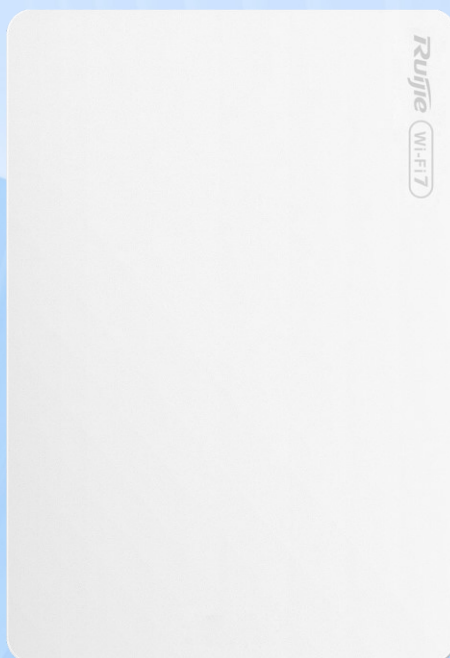


RG-RAP72-Wall

Ruijie BE3600 Dual-Band Wall-Mount Wi-Fi 7 Access Point



/ Highlights

- Wi-Fi 7 revolution, providing data rates of up to 3600 Mbps
- 2.5 Gbps uplink port for ultra-high-speed indoor access
- PoE output for IP phones and other IoT devices
- Compact design with a thickness of 24 mm
- Anti-theft lock for device protection

Product Overview

The RG-RAP72-Wall is a dual-band Wi-Fi 7 wireless access point (AP) launched by Ruijie Networks. Compliant with the IEEE 802.11be standard, the RG-RAP72-Wall is ideal for guest rooms in hotels and apartments, classrooms and dormitories in education sector, as well as office environments for small- and medium-sized enterprises.

The RG-RAP72-Wall can operate simultaneously in IEEE 802.11be, IEEE 802.11ax, IEEE 802.11ac Wave 2, IEEE 802.11ac Wave 1, and IEEE 802.11n modes. It supports both the 2.4 GHz and 5 GHz bands, delivering a data rate of up to 3.57 Gbps.

The RG-RAP72-Wall integrates essential functions such as wireless network security, a standalone portal, Reyee Mesh, QoS, and seamless roaming. It can work in conjunction with Ruijie Cloud to enable wireless client access control, operations and maintenance (O&M), and security access management.

The RG-RAP72-Wall is fit in junction boxes with mainstream dimensions, and features an Ethernet port that supports PoE output. Additionally, its sleek and attractive design ensures easy deployment.

Product Pictures



Product Highlights

- Wi-Fi 7 revolution, providing data rates of up to 3600 Mbps
- 2.5 Gbps uplink port for ultra-high-speed indoor access
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Experience the Revolution, Connect the Future

Wi-Fi 7 Dual-Band Wall-Mount Access Point



24 mm Weight $\leq 0.27\text{kg}$

Ultra-Slim and
Lightweight Design



Product Features

Multi-Scenario Adaptability

The RG-RAP72-Wall is a dual-band wall-plate AP suitable for various applications, including hotels, high-end apartments, educational institutions, and business environments.

High-Speed Access and Compatibility

The RG-RAP72-Wall can operate simultaneously in IEEE 802.11be, IEEE 802.11ax, IEEE 802.11ac Wave 2, IEEE 802.11ac Wave 1, and IEEE 802.11n modes. Supporting both 2.4 GHz and 5 GHz frequency bands, it offers a data rate of up to 3.57 Gbps, effectively eliminating any wireless performance bottlenecks.

Compact Size, Excellent Heat Dissipation, and Versatile Installation Options

The RG-RAP72-Wall features a compact and lightweight design, with a thickness of just 24 mm

(0.94 in.), ensuring excellent heat dissipation performance. The RG-RAP72-Wall is fit in junction boxes with mainstream dimensions, ensuring adaptability to diverse installation environments. In addition to its sleek and attractive appearance, it provides a PoE output port that can power other devices, including IP phones and various smart devices.

Standalone Portal

The RG-RAP72-Wall supports a standalone portal that enables Wi-Fi authentication through Ruijie Cloud. This standalone portal operates independently of a gateway, making network construction both easier and more cost-effective.

Product Information

Model	RG-RAP72-Wall
Product Type	Wall AP

Hardware Specifications

Model	RG-RAP72-Wall
Dimensions and Weight	
Product dimensions (W x D x H)	86 mm x 24 mm x 124 mm (3.39 in. x 0.94 in. x 4.88 in.) (excluding the mounting bracket)
Color	White
Weight	≤ 0.27 kg (0.60 lbs.) (without packaging materials)
Shipping weight	≤ 0.45 kg (0.99 lbs.)
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

Hardware Specifications

Model	RG-RAP72-Wall
	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">• 2.4 GHz: 2 x 2, MU-MIMO• 5 GHz: 2 x 2, MU-MIMO
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
2.4 GHz wireless data rate	688 Mbps
Maximum transmit power	Frequency bands and maximum Effective Isotropic Radiated Power (EIRP): Note: Country specific restrictions apply. European Union & United Kingdom 2400–2483.5 MHz, EIRP ≤ 20 dBm

Hardware Specifications

Model	RG-RAP72-Wall
	5150–5350 MHz, EIRP $\leq$ 23 dBm
	5470–5725 MHz, EIRP $\leq$ 30 dBm
	United States:
	2400–2483.5 MHz, max output power $\leq$ 30 dBm & EIRP $\leq$ 36 dBm
	5150–5250 MHz, max output power $\leq$ 30 dBm & EIRP $\leq$ 36 dBm
	5250–5350 MHz, max output power $<$ 24 dBm & EIRP $\leq$ 30 dBm
	5470–5725 MHz, max output power $<$ 24 dBm & EIRP $\leq$ 30 dBm
	5725–5850 MHz, max output power $\leq$ 30 dBm & EIRP $\leq$ 36 dBm
	Myanmar:
	2400–2483.5 MHz, EIRP $\leq$ 23 dBm
	5725–5825 MHz, EIRP $\leq$ 30 dBm
	Thailand:
	2400–2483.5 MHz, EIRP $\leq$ 20 dBm
	5150–5350 MHz, EIRP $\leq$ 23 dBm
	5470–5725 MHz, EIRP $\leq$ 30 dBm
	5725–5825 MHz, EIRP $\leq$ 30 dBm
	Indonesia:

Hardware Specifications

Model	RG-RAP72-Wall
	<p>2400–2483.5 MHz, EIRP $\leq$ 27 dBm</p> <p>5150–5350 MHz, EIRP $\leq$ 23 dBm</p> <p>5725–5825 MHz, EIRP $\leq$ 23 dBm</p> <p>Egypt:</p> <p>2400–2483.5 MHz, EIRP $\leq$ 20 dBm</p> <p>5150–5350 MHz, EIRP $\leq$ 23 dBm</p> <p>Vietnam:</p> <p>2400–2483.5 MHz, EIRP $\leq$ 23 dBm</p> <p>5150–5350 MHz, EIRP $\leq$ 23 dBm</p> <p>5470–5725 MHz, EIRP $\leq$ 30 dBm</p> <p>5725–5850 MHz, EIRP $\leq$ 30 dBm</p>
Maximum transmit power (6 GHz)	No
Maximum transmit power (5 GHz)	<p>Combined power: 21.7 dBm (single-stream power: 17 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: 20 dBm (single-stream power: 17 dBm)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>
Coverage range	<p>55 m² (592.02 square ft.)</p> <p>Note: The data is obtained in an ideal environment without</p>

Hardware Specifications

Model	RG-RAP72-Wall
	obstruction. The signal coverage radius depends on client performance and environmental interference.
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> <p>MIMO-OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, and 4096-QAM</p> <p>OFDMA</p>
Receive sensitivity	<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>

Hardware Specifications

Model	RG-RAP72-Wall
	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)
Antenna	
Antenna	5 GHz: 1 built-in omnidirectional antenna Integrated 2.4 GHz and 5 GHz: 2 built-in omnidirectional antennas
Antenna horizontal orientation	No
Antenna vertical orientation	No
Antenna gain (6 GHz)	No
Antenna gain (5 GHz)	4.56 dBi
Antenna gain (2.4 GHz)	2.84 dBi
Port Specifications	
Number of 10/100/1000BASE-T ports	4
Number of 10/100/1000/2500BASE-T ports	1
Reset button	1
LEDs	1 x system status LED
Power Supply and Consumption	

Hardware Specifications

Model	RG-RAP72-Wall
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) <p>Note: The standard does not support PoE Out.</p> <ul style="list-style-type: none">• IEEE 802.3at (PoE+)
Number of PoE Out ports	1
PoE budget	10 W (when power source is IEEE 802.3at-compliant)
Maximum power consumption	15 W (excluding PoE output)
System Specifications	
Flash memory	256 MB
RAM	512 MB DDR3
Environment and Reliability	
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	Junction box
IP rating	IP41
Surge protection	Ethernet port: ±2 kV for common mode
MTBF	400,000 hours

Hardware Specifications

Model	RG-RAP72-Wall
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

Software Specifications

Model	RG-RAP72-Wall
Multicast	
IGMP snooping (wireless-to-wireless)	Yes
IGMP snooping (wired-to-wireless)	Yes
IGMP snooping (wired-to-wired)	No
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/be and 160 MHz: 16 (2.4 GHz) 94 (5 GHz) 110 (2.4 GHz and 5 GHz enabled)● Support for IEEE 802.11ax/be and 80 MHz: 16 (2.4 GHz) 64 (5 GHz) 80 (2.4 GHz and 5 GHz enabled)● Support for IEEE 802.11ac: 8 (2.4 GHz) 32 (5 GHz) 40 (2.4 GHz and 5 GHz enabled)
Maximum number of SSIDs	8

Software Specifications

Model	RG-RAP72-Wall
Radio-based client limiting	Yes
Layer 2 isolation	Yes
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
Co-channel roaming	Yes
Roaming sniffing	No
Configurable antenna	No
PSK authentication	Yes
Static allowlist	Yes

Software Specifications

Model	RG-RAP72-Wall
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
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 blocklist	Yes
Network Management and Monitoring	
Wireless repeater mode	Yes

Software Specifications

Model	RG-RAP72-Wall
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
Configuration synchronization among the app, eWeb, and Ruijie Cloud	Yes
Displaying device information on Ruijie Cloud	Yes
Authentication	
802.1X authentication	Yes
Dynamic VLAN assignment	Yes
IPv4 Ruijie RG-OCE Identity Manager authentication scheme	Yes
Linkufi authentication	Yes
Ethernet Switching	

Software Specifications

Model	RG-RAP72-Wall
IEEE 802.1Q VLAN	Yes
VLAN expansion	Yes
Enabling/Disabling an interface	Yes
Interface rate	WAN:10/100/1000/2500 Mbps auto-negotiation LAN1/LAN2/LAN3/LAN4:10/100/1000 Mbps auto-negotiation
Interface mode (half-duplex/full-duplex switching)	Yes
Ethernet Interface	
PPPoE clients	Yes
IP Service	
ARP binding	Yes
IPv4 ping	Yes
IPv6 ping	Yes
Traceroute	Yes
Static/Dynamic NAT	Yes
DHCP server	Yes
IPv6	Yes
Interface	
IPTV transparent transmission	Yes
Basic Configurations	
AP mode	Yes

Software Specifications

Model	RG-RAP72-Wall
Routing mode	Yes
Internet access mode	Static IP address Static IPv6 address Dynamic IP address Dynamic IPv6 address PPPoE

Package Contents

Model	RG-RAP72-Wall
Accessories	
Power adapter	No
Package Contents	
Package Contents	1 x AP
	1 x Mounting bracket
	4 x Cross pan head screws (M4 x 25 mm)
	1 x User Manual
	1 x Warranty Card
	1 x Key to security lock

Ruijie



Ruijie Networks Co., Ltd.

For more information, visit www.ruijie.com or call 86-400-620-8818.