Wi-Fi 7 Indoor Ceiling Access Point BE14000 802.11be Tri-band 13.346 Gbps (1x RJ45 2.5G Uplink, 1x 10GE SFP+)

RG-RAP73PRO

Matchmaster
For the Best

The Ruijie Reyee RG-RAP73PRO is a high-performance BE14000 tri-band Wi-Fi 7 ceiling access point designed for high-density commercial networks. Delivering combined wireless speeds up to 13.66 Gbps across 2.4 GHz, 5 GHz and 6 GHz bands, it supports up to 200 recommended concurrent users. A 2.5 Gigabit Ethernet port, 10 Gigabit SFP+ interface and advanced cloud management provide exceptional capacity, flexibility and control.

3-Year Manufacturer's Warranty
For full terms & conditions, please see – Ruijie Warranty T&Cs.

Features and Benefits

- Tri-band Wi-Fi 7 delivers combined wireless speeds up to 13.66 Gbps across 2.4 GHz, 5 GHz and 6 GHz for demanding networks.
- Eight spatial streams and support for up to 200 recommended concurrent users provide reliable performance in high-density environments.
- MLO, 4K-QAM, OFDMA and MU-MIMO enhance throughput, reduce congestion and improve performance across multiple connected devices.
- One 2.5 Gigabit Ethernet port and one 10 Gigabit SFP+ port provide high-capacity copper and fibre connectivity without restricting Wi-Fi 7 performance.
- PoE+, PoE++ and 54 V DC power options offer flexible installation, while ceiling or wall mounting suits a wide range of indoor environments.
- Lifetime-free Ruijie Cloud management enables remote monitoring, configuration and optimisation through the Ruijie Reyee App or web interface.

Reyee by Ruijie

Specifications

Hardware Specifications

Wi-Fi Radio

6 GHz Wi-Fi	Wi-Fi 4 (IEEE 802.11a) Wi-Fi 6 (IEEE 802.11ax) Wi-Fi 7 (IEEE 802.11be)
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 IEEE 802.11a/ax/be, 5.925 GHz to 7.125 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	Tri-radio 8 spatial streams • 2.4 GHz: 2 x 2, MU-MIMO • 5 GHz: 3 x 3, MU-MIMO • 6 GHz: 3 x 3, MU-MIMO
FEM	iFEM
6 GHz channel width	Auto/20/40/80/160/320 MHz
5 GHz channel width	Auto/20/40/80/160 MHz
2.4 GHz channel width	Auto/20/40 MHz
Maximum wireless data rate	13657 Mbps
6 GHz wireless data rate	8646 Mbps

Wi-Fi Radio (continued)

5 GHz wireless data rate	4323 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 5150–5350 MHz, EIRP ≤ 23 dBm 5470–5725 MHz, EIRP ≤ 30 dBm 5945–6425 MHz, EIRP ≤ 23 dBm 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 5925–7125 MHz, EIRP ≤ 30 dBm Thailand: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5470–5725 MHz, EIRP ≤ 30 dBm 5725–5825 MHz, EIRP ≤ 30 dBm 5945–6425 MHz, EIRP ≤ 23 dBm 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

Wi-Fi Radio (continued)

Maximum transmit power (6 GHz)	Combined power: 22.7 dBm (single-stream power: 18 dBm) Note: The transmit power varies according to regulations in different countries and regions.
Maximum transmit power (5 GHz)	Combined power: 25.7 dBm (single-stream power: 21 dBm) Note: The transmit power varies according to regulations in different countries and regions.
Maximum transmit power (2.4 GHz)	Combined power: 25 dBm (single-stream power: 22 dBm) Note: The transmit power varies according to regulations in different countries and regions.
Coverage range	145 ㎡ (1560.77 square ft.) Note: The data is obtained in an ideal environment without obstruction. The signal coverage radius depends on client performance and environmental interference.
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

Wi-Fi Radio (continued)

Receive sensitivity	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) 11be: 320 MHz: –76 dBm (MCS0), –41 dBm (MCS13)

Antenna

Antenna	2.4 GHz: 2 built-in omnidirectional antennas 5 GHz: 3 built-in omnidirectional antennas 6 GHz: 3 built-in omnidirectional antennas

Antenna (continued)

Antenna horizontal orientation	No
Antenna vertical orientation	No
Antenna gain (6 GHz)	5.20 dBi
Antenna gain (5 GHz)	5.90 dBi
Antenna gain (2.4 GHz)	3.60 dBi

Dimensions and Weight

Product dimensions (W x D x H)	220 mm x 220 mm x 45 mm (8.66 in. x 8.66 in. x 1.77 in.) (excluding the mounting bracket)
Color	White
Weight	≤ 1.1 kg (2.43 lbs.) (without packaging materials)
Shipping weight	≤ 1.44 kg (3.17 lbs.)

Port Specifications

Number of 10/100/1000/ 2500BASE-T ports	1
Number of 10GE SFP+ ports	1
Reset button	1
LEDs	1 x system status LED

Power Supply and Consumption

Power supply	• DC power adapter • PoE+/PoE++ Note: If both the DC power adapter and PoE+/PoE++ are available for power supply, the DC power adapter is preferred.
Local power supply	Yes, one DC power connector (54 V, 0.55 A)
Dimensions of the DC connector	Outer diameter: 5.5 mm (0.22 in.) Inner diameter: 2.1 mm (0.08 in.) Length: 10 mm (0.39 in.)

Power Supply and Consumption (continued)

PoE In standard	• IEEE 802.3at (PoE+) • IEEE 802.3bt (PoE++)
PoE budget	No
Maximum power consumption	30 W

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	Ceiling/Wall
IP rating	IP41
Surge protection	Ethernet port: ±2 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	1024 MB DDR4

Software Specifications

Basic Configurations

AP mode	Yes

Basic Configurations (continued)

Routing mode	Yes
Internet access mode	Static IP address Static IPv6 address Dynamic IP address Dynamic IPv6 address PPPoE

Interface

IPTV transparent transmission	Yes

Ethernet Interface

PPPoE clients	Yes

Ethernet Switching

IEEE 802.1Q VLAN	Yes

WLAN

Maximum number of associated wireless clients	128 (2.4 GHz) 256 (5 GHz) 256 (6 GHz) 600 (2.4 GHz, 5 GHz, and 6 GHz enabled)
Recommended number of associated wireless clients	• Support for IEEE 802.11ax/be and 160MHz: 16 (2.4 GHz) 84 (5 GHz) 100 (6 GHz) 200 (2.4 GHz, 5 GHz, and 6 GHz enabled) • Support for IEEE 802.11ax and 80MHz: 16 (2.4 GHz) 64 (5 GHz) 60 (6 GHz) 140 (2.4 GHz and 5 GHz enabled) • Support for IEEE 802.11ac: 16 (2.4 GHz) 64 (5 GHz) 80 (2.4 GHz and 5 GHz enabled)

WLAN (continued)

Maximum number of SSIDs	8
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
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

WLAN (continued)

Number of blocklists and allowlists based on MAC addresses (single SSID)	512
Number of global blocklists/allowlists	512
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

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

Network Management and Monitoring (continued)

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

Package Contents

Package Contents	1 x AP 1 x Mounting bracket 4 x Cross pan head screws (ST4.2 x 20 mm) 4 x Plastic expansion anchors (φ9 x 25.4 mm) 1 x User Manual 1 x Warranty Card 1 x Key to security lock 1 x Alignment sticker

Accessories

Power adapter	No