

RG-RAP73HD

Reyee Wi-Fi 7 Tri-Radio BE19000 Ceiling Access Point, RG-RAP73HD



Highlights

- Tri-radio performance, 6G/320MHz brings extra-high wireless rate
- Better Streaming experience with Wi-Fi 7 exclusive feature MLO
- Increase the high-density access capacity up to 1024
- 4K-QAM, deliver data packs better for higher speeds
- Capable of Enterprise Switch to build PRO Office Network

Highlight Features

Wi-Fi 7 BE19000
Up to **18658Mbps**

MLO
8K Ultra HD

6GHz
320MHz
Tri-Band

Huge Capacity
Up to 1024 access

Multiple Ports
1 10GE Port, 1 SFP+

Enter Next-Level Speed Machine, Enjoy True Blazing-Fast Acceleration

Wi-Fi 7 RG-RAP73HD

Wi-Fi 7 Phenomenal Upgrade - 6GHz & MLO
Innovate Business - Optimal Hi-Tech Stream Experience
Exceeding Reliability - Speed & Capacity up, Better throughput lower latency
Emerging Application Scenarios - Real-time collaboration, Cloud Edge computing, Immersive AR/VR...
Extra-High Performance - 19000Mbps

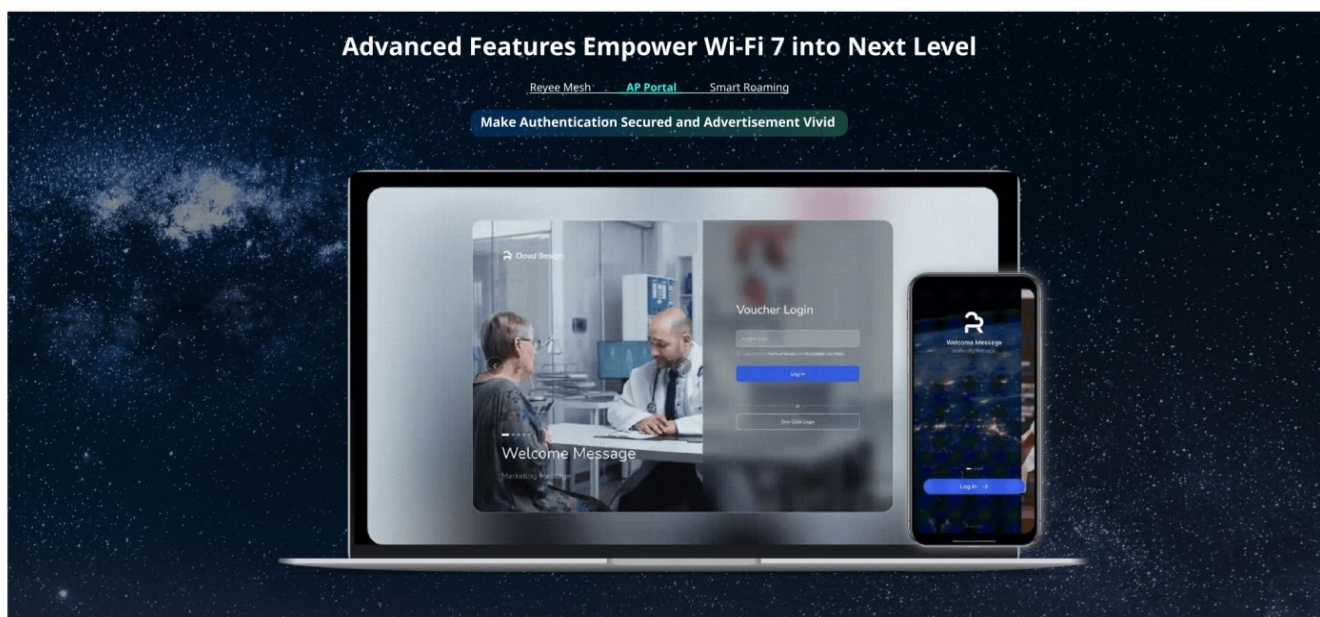
9999 Mbps
OVER

Ultimate High-Quality Streaming, Performance Increased of 20% Powered by MLO

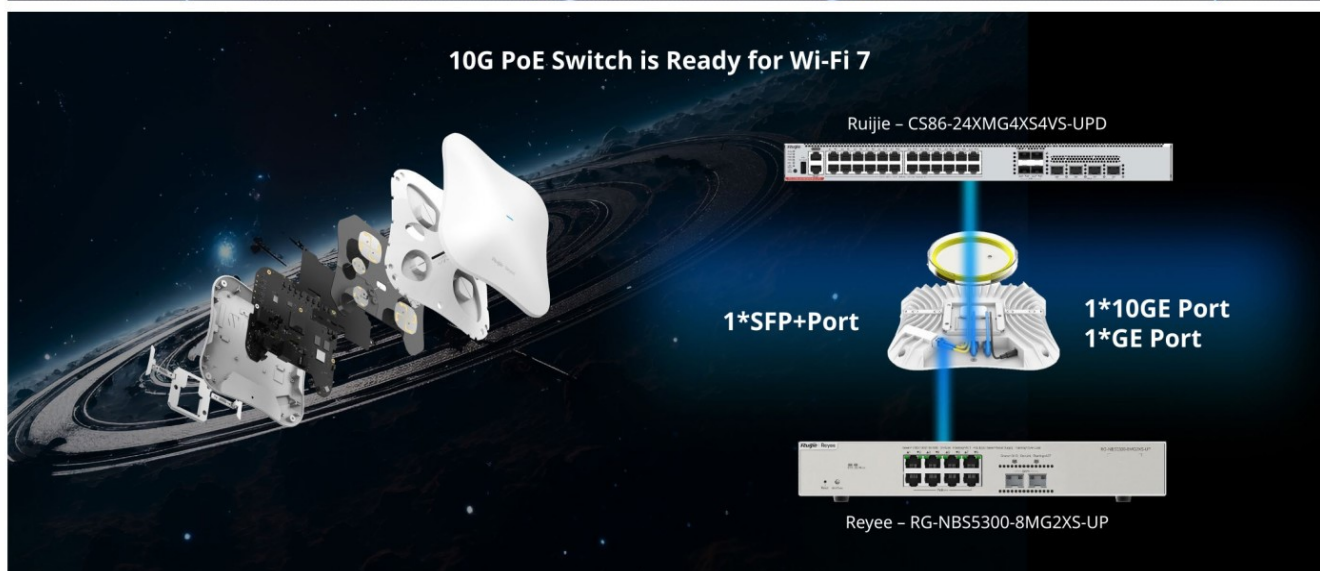
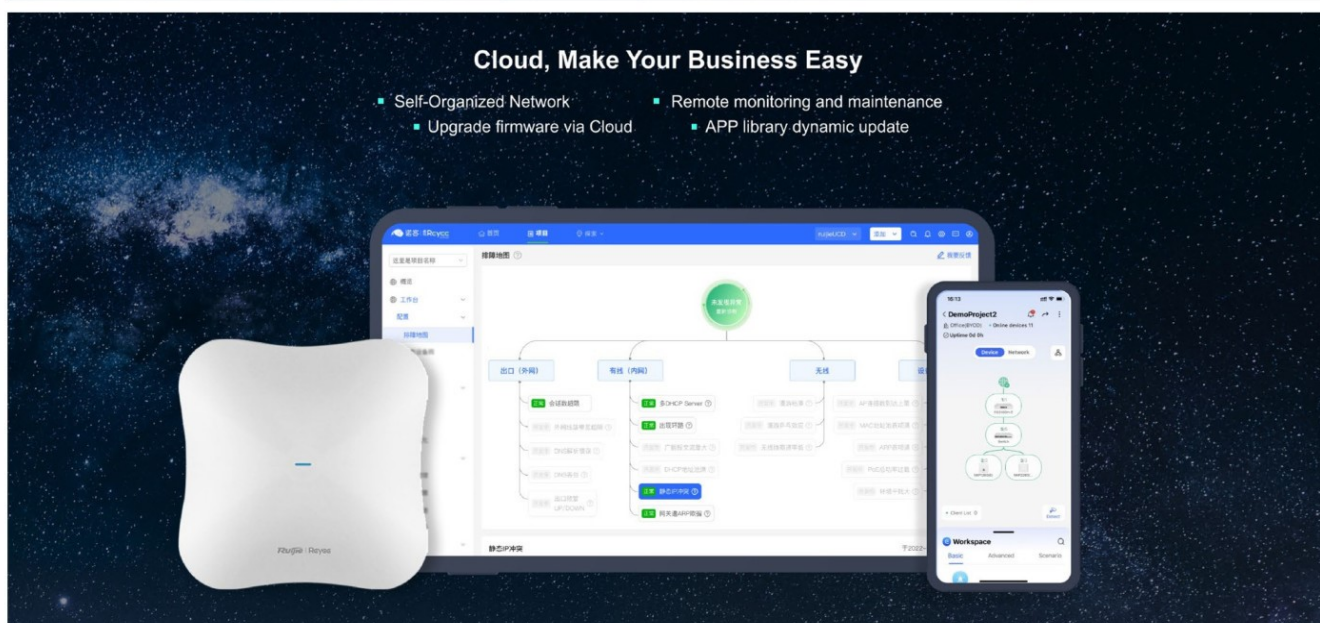
Experience a bustling digital world
No buffering, delay, or congestion for visual

Special Chip Optimal-Design
With **MLO** (Multi-Link Operation)
20% Higher Performance than Others in
High-Streaming Scenario

Highlight Features



Highlight Features



Product Information

Model	RG-RAP73HD
Product Type	Ceiling AP

Hardware Specifications

Model	RG-RAP73HD
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

Hardware Specifications

Model	RG-RAP73HD
	the preceding frequency bands, ensure that your country or region supports these frequency bands.
Radio design	Tri-radio 12 spatial streams <ul style="list-style-type: none">• 2.4 GHz: 4 x 4, MU-MIMO• 5 GHz: 4 x 4, MU-MIMO• 6 GHz: 4 x 4, MU-MIMO
FEM	2.4 GHz: 4 x eFEM 5 GHz: 4 x eFEM 6 GHz: 4 x eFEM
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	18668 Mbps
6 GHz wireless data rate	11528 Mbps
5 GHz wireless data rate	5764 Mbps
2.4 GHz wireless data rate	1376 Mbps
Maximum transmit power	Frequency bands and maximum Effective Isotropic Radiated Power (EIRP): Note: Country specific restrictions apply. European Union & United Kingdom

Hardware Specifications

Model	RG-RAP73HD
	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

Hardware Specifications

Model	RG-RAP73HD
	<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)	<p>Combined power: 29 dBm (single-stream power: 23 dBm)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>
Maximum transmit power (5 GHz)	<p>Combined power: 31 dBm (single-stream power: 25 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: 31 dBm (single-stream power: 25 dBm)</p> <p>Note: The transmit power varies according to regulations in different countries and regions.</p>
Coverage range	<p>190 m² (2045.14 square 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</p> <p>DSSS: DBPSK @ 1 Mbps, DQPSK @ 2 Mbps, and CCK @ 5.5/11</p>

Hardware Specifications

Model	RG-RAP73HD
	Mbps MIMO-OFDM: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, and 4096-QAM OFDMA
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)

Hardware Specifications

Model	RG-RAP73HD
	11be: 160 MHz: -79 dBm (MCS0), -44 dBm (MCS13) 11be: 320 MHz: -76 dBm (MCS0), -41 dBm (MCS13)
Antenna	
Antenna	2.4 GHz: 5 built-in omnidirectional antennas 5 GHz: 4 built-in omnidirectional antennas 6 GHz: 5 built-in omnidirectional antennas
Antenna horizontal orientation	No
Antenna vertical orientation	No
Antenna gain (6 GHz)	5.00 dBi
Antenna gain (5 GHz)	4.00 dBi
Antenna gain (2.4 GHz)	3.00 dBi
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
System Specifications	

Hardware Specifications

Model	RG-RAP73HD
Flash memory	256 MB
RAM	2048 MB DDR4
Dimensions and Weight	
Product dimensions (W x D x H)	258 mm x 258 mm x 59.5 mm (10.16 in. x 10.16 in. x 2.34 in.) (excluding the mounting bracket)
Color	White
Weight	≤ 2.0 kg (4.41 lbs.) (without packaging materials)
Shipping weight	≤ 2.56 kg (5.64 lbs.)
Certification and Regulatory Compliance	
RoHS	Yes
Safety compliance	EN 62368-1
EMC	EN 55032
	EN 55035
	EN 61000-3-3
	EN 61000-3-2
	EN 301489-1
	EN 301489-3
RF	EN 301489-17
	EN 300 328 EN 301 893

Hardware Specifications

Model	RG-RAP73HD
	EN 300 440
	Draft EN 303 687
Certification	CE, FCC, CB, ISED, cTUVus
Port Specifications	
Number of 10/100/1000BASE-T ports	1
Number of 100/1000/2.5G/5G/10GBASE-T ports	1
Number of 10GE SFP+ ports	1
Reset button	1
LEDs	1 x system status LED
Power Supply and Consumption	
Power supply	<ul style="list-style-type: none">• DC power adapter• PoE+/PoE++ <p>Note: If both the DC power adapter and PoE+/PoE++ are available for power supply, the DC power adapter is preferred.</p>
Local power supply	Yes, one DC power connector (48 V, 1.48 A)
Dimensions of the DC connector	Outer diameter: 5.5 mm (0.22 in.) Inner diameter: 2.1 mm (0.08 in.) Depth: 10 mm (0.39 in.)
PoE In standard	<ul style="list-style-type: none">• IEEE 802.3at (PoE+) <p>Note: Radio transmission and reception is limited to 2T2R at</p>

Hardware Specifications

Model	RG-RAP73HD
	2.4 GHz and 5 GHz. <ul style="list-style-type: none">• IEEE 802.3bt (PoE++)
PoE budget	No
Maximum power consumption	60 W

Software Specifications

Model	RG-RAP73HD
Ethernet Interface	
PPPoE clients	Yes
Interface	
IPTV transparent transmission	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
Dynamic VLAN assignment	Yes
IPv4 Ruijie RG-OCE Identity Manager authentication scheme	Yes
Linkufi authentication	Yes
WLAN	
Maximum number of associated wireless clients	512 (2.4 GHz) 512 (5 GHz)

Software Specifications

Model	RG-RAP73HD
	512 (6 GHz)
	1024 (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)
	114 (5 GHz)
	120 (6 GHz)
	250 (2.4 GHz, 5 GHz, and 6 GHz enabled)
	● Support for IEEE 802.11ax/be and 80MHz:
	16 (2.4 GHz)
	84 (5 GHz)
	100 (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)
Maximum number of SSIDs	8
Radio-based client limiting	Yes
Layer 2 isolation	Yes
OFDMA	Yes
WMM	Yes
DFS	Yes

Software Specifications

Model	RG-RAP73HD
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
Adjusting the transmit power for beacon and probe frames	Yes
Encryption mode (WPA-PSK, WPA2-PSK, WPA/WPA2-PSK)	Yes

Software Specifications

Model	RG-RAP73HD
OWE (Enhanced Open)	Yes
WPA3-SAE	
WPA2-PSK/WPA3-SAE	
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
Basic Configurations	
AP mode	Yes
Routing mode	Yes
Internet access mode	Static IP address
	Static IPv6 address
	Dynamic IP address

Software Specifications

Model	RG-RAP73HD
	Dynamic IPv6 address
	PPPoE
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
SNMP	Yes
Configuration synchronization among the app, eWeb, and Ruijie Cloud	Yes
Displaying device information on Ruijie Cloud	Yes
Multicast	
IGMP snooping (wireless-to-wireless)	Yes
IGMP snooping (wired-to-wireless)	Yes

Software Specifications

Model	RG-RAP73HD
IGMP snooping (wired-to-wired)	No
Ethernet Switching	
IEEE 802.1Q VLAN	Yes
VLAN expansion	Yes
Enabling/Disabling an interface	Yes
Interface rate	GE:10/100/1000 Mbps auto-negotiation 10GE:100/1000/2500/5000/10000 Mbps auto-negotiation
Interface mode (half-duplex/full-duplex switching)	Yes

Package Contents

Model	RG-RAP73HD
Accessories	
Power adapter	1
Package Contents	
Package Contents	1 x AP
	1 x Mounting bracket
	1 x Security screw (M3 x 7 mm)
	3 x Cross pan head self-tapping screws (ST4.2 x 20 mm)
	3 x Plastic expansion anchors (ϕ 9 x 25.4 mm)
	1 x PoE adapter
	1 x Power cord (region-specific)
	1 x User Manual
	1 x Warranty Card

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 **R**edefine **y**our **e**asy network



Ruijie Networks Co., Ltd.

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