

RG-RAP2200(E)

Reyee Wi-Fi 5 1266 Mbps Ceiling Access Point



Highlights

- Dual-radio performance, up to 1266 Mbps.
- Get better performance with 802.11ac wave 2' s MU-MIMO technology.
- Support to optimize the entire wireless network with just one click.
- Easily set up your Wi-Fi network with Ruijie Cloud APP in 3 minutes.
- With Ruijie Cloud, easy to maintain your networks remotely.

Highlight Features



One Click to Optimize, Get Better Wi-Fi Experience

The W6016E-11 features intelligent and fast technology of one click to optimize wireless networks by one click.

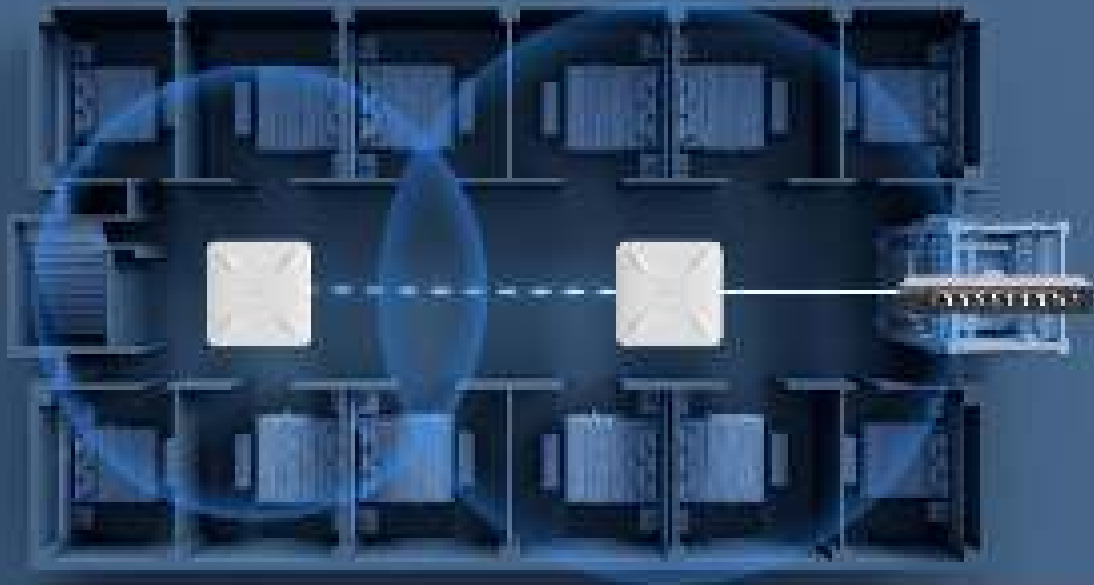


W6016E-11 is a Wi-Fi 6E access point that provides high-speed, high-capacity wireless networking. It features a powerful 4x4 MIMO antenna array and a 2.4GHz/5GHz/6GHz tri-band design, providing a total bandwidth of 120MHz. The device also supports 1024-QAM modulation, which increases the data rate by 25% compared to 256-QAM. Additionally, it features a 10G Ethernet port and a PoE+ power supply, making it a versatile and powerful networking solution for high-density environments.

Highlight Features

Easily Install Extra AP with Reye Mesh

Less wiring, more flexibility.



Layer 3 Roaming, Smooth Transition

Roam seamlessly between Layer 3 networks with no user disruption.



• **Easy Installation:** The Reye Mesh system allows for easy installation of additional APs without the need for complex wiring or structural changes. This makes it a cost-effective solution for expanding network coverage in existing buildings.

• **Seamless Roaming:** Layer 3 roaming capabilities ensure that users can move between different network segments (e.g., different floors or buildings) without experiencing any disruption in their network connection. This is particularly important for mobile devices and users who require continuous connectivity.

• **Flexibility:** The Reye Mesh system provides a high degree of flexibility in AP placement, allowing network administrators to optimize coverage and capacity based on the specific needs of the environment. This is especially useful in large, complex buildings with varying traffic patterns.

• **Scalability:** The system is designed to be highly scalable, allowing for the easy addition of new APs and network segments as the organization's needs grow. This ensures that the network can keep pace with changing requirements and maintain high performance over time.

• **Centralized Management:** The Reye Mesh system is managed through a centralized interface, making it easy to configure, monitor, and troubleshoot the network. This simplifies network management and reduces the time and resources required to maintain the system.

• **Improved Performance:** By enabling seamless roaming and providing flexible AP placement, the Reye Mesh system helps to improve overall network performance and user experience. This is achieved through reduced latency, increased bandwidth, and more reliable connections.

• **Future-Ready:** The Reye Mesh system is built with a focus on future-proofing the network. It supports the latest networking technologies and standards, ensuring that the system remains relevant and effective as the network evolves.

Highlight Features

Easily Set Up Your Wi-Fi Network in 3 Minutes

With SON (Self-Organizing Network) technology, easily set up a whole Wi-Fi network by Fujitsu Cloud/APP.



Cloud, Make Your Business Easy

- Self-organizing Network
- Centralized Network Management
- Network Based Configuration
- Cloud Profile Authentication
- Remote Monitoring and Maintenance



SON (Self-Organizing Network) technology enables you to easily set up a whole Wi-Fi network by Fujitsu Cloud/APP. It automatically configures the network based on the environment and user requirements, reducing the time and effort required for network setup and maintenance.

Centralized Network Management allows you to manage your entire network from a single point, making it easier to monitor and control network performance. Network Based Configuration enables you to configure network settings based on user requirements, ensuring optimal network performance and security.

Cloud Profile Authentication provides a secure and convenient way to authenticate users, ensuring that only authorized users can access the network. Remote Monitoring and Maintenance allows you to monitor and maintain your network remotely, reducing the need for on-site visits and minimizing downtime.

Product Information

Model	RG-RAP2200(E)
Product Type	Ceiling AP

Hardware Specifications

Model	RG-RAP2200(E)
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)
2.4 GHz Wi-Fi	Wi-Fi 4 (IEEE 802.11b/g/n)
Operating band	IEEE 802.11b/g/n, 2.400 GHz to 2.4835 GHz IEEE 802.11a/n/ac, 5.150 GHz to 5.350 GHz, 5.470 GHz to 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 ● 2.4 GHz: 2 x 2, MIMO ● 5 GHz: 2 x 2, MIMO
FEM	2.4 GHz: 2 x eFEM 5 GHz: 2 x eFEM
6 GHz channel width	No
5 GHz channel width	Auto/20/40/80 MHz
2.4 GHz channel width	Auto/20/40 MHz
Maximum wireless data rate	1266 Mbps
6 GHz wireless data rate	No
5 GHz wireless data rate	866 Mbps
2.4 GHz wireless data rate	400 Mbps
Maximum transmit power	Frequency bands and maximum Effective Isotropic Radiated Power (EIRP):

Hardware Specifications

Model	RG-RAP2200(E)
	<p>Note: Country specific restrictions apply.</p> <p>European Union & United Kingdom: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 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 5150–5350 MHz, EIRP ≤ 23 dBm 5470–5725 MHz, EIRP ≤ 30 dBm 5725–5825 MHz, EIRP ≤ 30 dBm</p> <p>Indonesia: 2400–2483.5 MHz, EIRP ≤ 27 dBm 5150–5350 MHz, EIRP ≤ 23 dBm 5725–5825 MHz, EIRP ≤ 23 dBm</p> <p>Egypt: 2400–2483.5 MHz, EIRP ≤ 20 dBm 5150–5350 MHz, EIRP ≤ 23 dBm</p> <p>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</p>
Maximum transmit power (6 GHz)	No
Maximum transmit power (5 GHz)	Combined power: 26 dBm (single-stream power: 23 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	115 m ² (1237.85 square ft.) Note: The data is obtained in an ideal environment without obstruction. The signal coverage radius depends on client performance and environmental interference.

Hardware Specifications

Model	RG-RAP2200(E)
Modulation	OFDM: BPSK @ 6/9 Mbps, QPSK @ 12/18 Mbps, 16-QAM @ 24 Mbps, 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
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)
Antenna	
Antenna	2.4 GHz: 2 built-in omnidirectional antennas 5 GHz: 2 built-in omnidirectional antennas
Antenna horizontal orientation	No
Antenna vertical orientation	No
Antenna gain (6 GHz)	No
Antenna gain (5 GHz)	2.00 dBi
Antenna gain (2.4 GHz)	2.00 dBi
Dimensions and Weight	
Product dimensions (W x D x H)	194 mm x 194 mm x 35 mm (7.64 in. x 7.64 in. x 1.38 in.) (excluding the mounting bracket)
Color	White
Weight	≤ 0.45 kg (0.99 lbs.) (without packaging materials)
Shipping weight	≤ 0.69 kg (1.52 lbs.)
Port Specifications	
Number of 10/100/1000BASE-T ports	2
Reset button	1
LEDs	1 x system status LED

Hardware Specifications

Model	RG-RAP2200(E)
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 (12 V, 1.5 A)
Dimensions of the DC connector	<p>Outer diameter: 5.5 mm (0.22 in.)</p> <p>Inner diameter: 2.1 mm (0.08 in.)</p> <p>Depth: 10 mm (0.39 in.)</p>
PoE In standard	<ul style="list-style-type: none"> • IEEE 802.3af (PoE) • IEEE 802.3at (PoE+)
PoE budget	No
Maximum power consumption	12.95 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	No
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	<p>EN 55032</p> <p>EN 55035</p> <p>EN 61000-3-3</p> <p>EN 61000-3-2</p> <p>EN 301489-1</p>

/ Hardware Specifications

Model	RG-RAP2200(E)
	EN 301489-3 EN 301489-17
RF	EN 300 328 EN 301 893 EN 300 440
Certification	CE, FCC, CB, ISED, cTUVus
System Specifications	
Flash memory	16 MB
RAM	128 MB CPU built-in DDR3

Software Specifications

Model	RG-RAP2200(E)
Basic Configurations	
AP mode	Yes
Routing mode	Yes
Internet access mode	Static IP address Static IPv6 address Dynamic IP address Dynamic IPv6 address PPPoE
Interface	
IPTV transparent transmission	No
Ethernet Interface	
PPPoE clients	Yes
Ethernet Switching	
IEEE 802.1Q VLAN	Yes
WLAN	
Maximum number of associated wireless clients	64 (2.4 GHz) 110 (5 GHz) 110 (2.4 GHz and 5 GHz enabled)
Recommended number of associated wireless clients	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	No
WMM	Yes
DFS	Yes
MLO	No
4K-QAM	No

Software Specifications

Model	RG-RAP2200(E)
Different SSIDs for the same VLAN	Yes
Enabling/Disabling MLO	No
AP load balancing	No
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	No
WPA2-PSK/WPA3-SAE	
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

Software Specifications

Model	RG-RAP2200(E)
Static blacklist	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
Ruijie Reyee App management	Yes
eWeb management	Yes
Ruijie Cloud management	Yes
SNMP	No
Configuration synchronization among the app, eWeb, and Ruijie Cloud	Yes
Displaying device information on Ruijie Cloud	Yes

Package Contents

Model	RG-RAP2200(E)
Package Contents	
Package Contents	1 x AP 1 x Mounting bracket 2 x Cross pan head screws (ST4.2 x 20 mm) 2 x Plastic expansion anchors (ϕ 9 x 25.4 mm) 1 x User Manual 1 x Warranty Card
Accessories	
Power adapter	No

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