



RG-CAP62-I

Product Overview

The RG-CAP62-I is a dual-radio 802.11ax-compliant settled wireless access point (AP) provided by Ruijie Networks for K12, government, hotel, business, and other indoor scenarios. The RG-CAP62-I adds the optical port. It complies with 802.11ax, 802.11ac Wave 2, 802.11ac Wave 1, and 802.11n. With a hardware-independent dual-radio design, the RG-CAP62-I can provide a data rate of up to 2.976 Gbps.

The design of the RG-CAP62-I consider factors such as wireless network security, radio control, access control, QoS, seamless roaming. With network controller (CNC) and Ruijie Cybrey Cloud, the RG-CAP62-I can implement wireless user experience, security features, access control, and IoT application extension.

The RG-CAP62-I supports the local power supply and Power over Ethernet (PoE), which can be flexibly selected based on the onsite environment. It can be mounted against a wall or ceiling, simplifying deployment. This makes it suitable for large campuses, conference centers, plazas, enterprise offices, operating hotspots, and other similar scenarios.

Product Highlights

High-speed Access and Compatibility

The RG-CAP62-I supports various wireless protocols, such as 802.11ax, 802.11ac Wave2, 802.11ac Wave1, and 802.11n. It features a hardware-independent dual-band design to deliver a data rate of up to 2.976 Gbps, effectively eliminating wireless performance bottlenecks. Additionally, it is compatible with an extensive array of devices, promoting seamless interconnectivity among employees and customers.

Security and Scalability

The RG-CAP62-I stands out with its exceptional wireless network security, RF control, access control, QoS, and seamless roaming. With Ruijie Cybrey's network controller (CNC), it enables wireless user data forwarding, security, and access control to cope with diverse service needs.

Multi-scenario Adaptability

The RG-CAP62-I, a dual-band ceiling-mounted wireless access point, is ideal for a wide range of applications, including higher education, government, K12 and business sectors, providing flexible solutions to meet diverse service needs.

Flexible Deployment and Power Supply

The RG-CAP62-I supports both local power supply and Power over Ethernet (PoE), providing you with the flexibility to choose the power supply mode. In addition, the RG-CAP62-I can be mounted

against a wall or ceiling, making space deployment and environmental requirements less challenging. This makes the RG-CAP62-I particularly suitable for scenarios such as large campuses, conference centers, enterprise offices, and operation hotspots.

Product Specifications

Hardware Specifications

Dimensions and Weight

Dimensions and Weight	
Unit dimensions (W x D x H)	---
Shipping dimensions (W x D x H)	---
Unit weight	---
Shipping weight	---
Mounting	Wall/Ceiling-mount
Color	White
Lock option	Kensington lock and securing latch

Wi-Fi Radio

Wi-Fi Radio	
Radio design	Dual-radio and up to four spatial streams: • Radio 1: 2.4 GHz, two spatial streams, 2x2 MU-MIMO • Radio 2: 5 GHz, two spatial streams, 2x2 MU-MIMO
Operating band	Radio 1, 802.11b/g/n/ax Radio 2, 802.11a/n/ac/ax
Data rates	Maximum combined peak data rate: 2.976 Gbps Radio 1: 2.4 GHz, 0.574 Gbps Radio 2: 5 GHz, 2.402 Gbps
Packet aggregation	802.11n/ac/ax: A-MPDU and A-MSDU
Antenna type	Built-in omnidirectional antennas

Antenna gain	-
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 Myanmar 2400–2483.5 MHz, EIRP ≤23 dBm 5725–5825 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 Indonesia 2400–2483.5 MHz, EIRP ≤27 dBm 5150–5350 MHz, EIRP ≤23 dBm 5725–5825 MHz, EIRP ≤23 dBm Egypt 2400–2483.5 MHz, EIRP ≤20 dBm 5150–5350 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
Power increment	Configurable in increments of 1 dBm

Modulation types	802.11b: BPSK, QPSK, CCK 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
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Port Specifications

Port Specifications	
Fixed service port	1 x 100/1000/2.5GBASE-T port 1 x 2.5G SFP port, compatibility with 1GE modules, supporting auto-negotiation
Fixed management port	1 x RJ45 console port
Bluetooth	Bluetooth 5.x
Status LED	1 x system status LED
Button	1 x Reset button

Power Supply and Consumption

Power Supply and Consumption	
Input power supply	The AP supports the following two power supply modes: ● 54 V DC/0.6 A power input over DC connector: The DC connector accepts 2.1 mm/5.5 mm center-positive circular plug. A DC power adapter needs to be purchased separately. ● PoE input over WAN : The power source equipment (PSE) complies with IEEE 802.3af/at standard (PoE/PoE+). Note: ● If both DC power and PoE are available, DC power is preferred.
Overall power consumption	-

Environment and Reliability

Environment	
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and Reliability	
Temperature	Operating temperature: –10°C to +50°C (14°F to 122°F) Storage temperature: –40°C to +70°C (–40°F to +158°F) Note: At an altitude in the range of 3,000–5,000 m (9,842.52–16,404.20 ft.), every time the altitude increases by 220 m (722 ft.), the maximum temperature decreases by 1°C (1.8°F).
Humidity	Operating humidity: 5% RH to 95% RH (non-condensing) Storage humidity: 5% RH to 95% RH (non-condensing)
IP rating	IP41
Mean Time Between Failure (MTBF)	200,000 hours (22 years) at the operating temperature of 25°C (77°F)

Certifications and Regulatory Compliance

Certifications and Regulatory Compliance	
Security regulations	IEC 62368-1 EN 62368-1
EMC regulations	EN 55032 EN 55035 EN IEC 61000-3-2 EN 61000-3-3 EN 301 489-1 EN 301 489-3 EN 301 489-17
Radio frequency regulations	EN 300 328 EN 301 893 EN 300 440 EN IEC 62311 FCC Part 15

Software Specifications

WLAN

WLAN	
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Maximum number of associated STAs	1024
Recommended maximum number of active devices per AP	64
Maximum number of BSSIDs	32 (up to 16 BSSIDs per radio)
Maximum number of WLAN IDs	16
STA management	SSID hiding Each SSID can be configured with the authentication mode, encryption mechanism, and VLAN attributes independently. Remote intelligent perception technology (RIPT) Intelligent client identification technology Intelligent load balancing based on the STA quantity or traffic Intelligent STA identification technology Rate set settings
STA limiting	SSID-based STA limiting Radio-based STA limiting
Bandwidth limiting	STA/SSID/AP-based rate limiting
CAPWAP	IPv4/IPv6 CAPWAP Layer 2 and Layer 3 topology between an AP and an CNC An AP can automatically discover the accessible CNC. An AP can be automatically upgraded through the CNC. An AP can automatically download the configuration file from the CNC. CAPWAP through NAT MTU setting and fragmentation over CAPWAP tunnels Encryption over CAPWAP data tunnels Encryption over CAPWAP control tunnels
Data forwarding	Centralized and local forwarding
Wireless roaming	Layer 2 and Layer 3 roaming
Application management	Application identification

Bridge Vlan	Supported
Wireless Distribution System (WDS)	Supported

Security and Authentication

Security and Authentication	
Authentication and encryption	Remote Authentication Dial-In User Service (RADIUS) EXEC authorization, specifying source IP addresses of RADIUS packets, supporting authentication of other vendors, and built-in authentication server PPSK, UPSK (used with CNC) , web, 802.1X, WPA, WPA2, and WPA3 authentication SMS authentication (used with CNC) MAB authentication (used with CNC) WEP (64/128 bits), WPA-Personal, WPA-Enterprise, WPA2/WPA3(AES), WPA2-Personal, WPA2-Enterprise, WPA3-Personal (WPA2/WPA3 transition mode), WPA3-Enterprise (CCMP), WPA3-OWE, WPA3-OWE transition mode
Data frame filtering	Allowlist, static blocklist, and dynamic blocklist
WIDS	Wireless Intrusion Detection System (WIDS) User isolation Rogue AP detection and containment
Dynamic Policy	IP standard ACL, MAC extended ACL, IP extended ACL, expert-level ACL, and IPv6 ACL Time range-based ACL ACL based on a Layer 2 interface ACL based on a Layer 3 interface Ingress ACL based on a wireless interface Dynamic ACL assignment based on 802.1X authentication (used with an CNC)
CPP	Supported
NFPP	Supported

Routing and Switching

Routing and	
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Switching	
MAC	Static MAC address, MAC address filtering, MAC address limiting MAC address table size: 1,024 Maximum number of static MAC addresses: 1,024 Maximum number of filtered MAC addresses: 1,024
ARP	ARP entry aging, gratuitous ARP learning, and proxy ARP Identification of IP address conflict among downlink users Maximum number of ARP entries: 1,024 ARP check
IPv4 services	Static IPv4 address and DHCP-assigned IPv4 address Maximum number of IPv4 addresses configured on each Layer 3 interface: 200 NAT, FTP ALG, and DNS ALG
IPv6 services	IPv6 addressing, Neighbor Discovery (ND), IPv6 ND proxy, ICMPv6, and IPv6 ping IPv6 DHCP client Maximum number of IPv6 addresses configured on each Layer 3 interface: 400
IP routing	IPv4/IPv6 static routing Maximum number of static IPv4 routes: 1,024 Maximum number of static IPv6 routes: 1,000
Multicast	Multicast-to-unicast conversion
VPN	PPPoE client IPsec VPN
LLDP	LLDP LLDP-MED LLDP-PoE

Management and Monitoring

Management and Monitoring	
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Network management	Fault inspection and alarm Information statistics and logging SNMPv1/v2c/v3 NTP Server and NTP Client SNTP client
Network management platform	Ruijie Cybrey Cloud Web-based management (Eweb)
User access management	Console, Telnet, SSH, SNMP, and TFTP-based management
Fat/Fit/Cloud mode switchover	When the AP works in Fit mode, it can be switched to Fat mode through an CNC. When the AP works in Fat mode, it can be switched to Fit mode through the console port or Telnet. When the AP works in Cloud mode, it can be managed through Ruijie Cybrey Cloud.

Order Information

Model	Description
RG-CAP62-I	Wi-Fi 6 dual-radio indoor access point. Up to 4 spatial streams, peak data rate of 2.976 Gbps. The AP consumes one license of an CNC. In compliance with IEEE 802.11a/b/g/n/ac/ax standard. Fat/Fit/Cloud mode switching. IEEE 802.3af/at-compliant (PoE/PoE+) and DC power supply. Note: The power source equipment (PSE) needs to be purchased separately. The DC power supply needs to be purchased separately, and the output voltage/current must be 54 V/0.6 A.

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