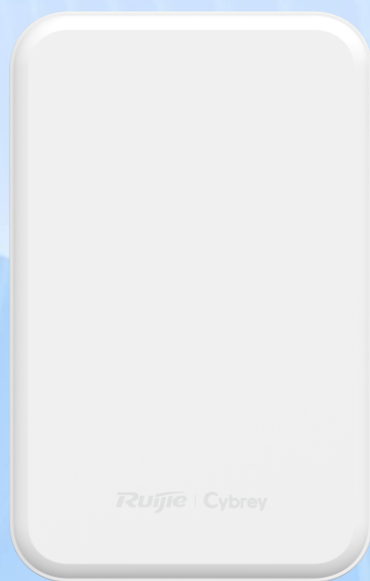




RG-CAP72-WP

Product Overview

The RG-CAP72-WP is a dual-radio Wi-Fi 7 access point (AP) for indoor scenarios in various sectors, such as hotel, apartments, business, villa and other indoor scenarios. The RG-CAP72-WP adds the PoE-out port, it can supply power to other devices, such as IP phones. In compliance with IEEE 802.11be, IEEE 802.11ax, IEEE 802.11ac Wave2, IEEE 802.11ac Wave1, and IEEE 802.11n standards, the RG-CAP72-WP delivers a combined peak data rate of 3.57 Gbps.

The RG-CAP72-WP is designed considering factors such as wireless network security, radio control, access control, QoS, seamless roaming. The RG-CAP72-WP can be used together with network controller (CNC) and Ruijie Cybrey Cloud to implement wireless user experience, security, and access control. The RG-CAP72-WP can be mounted against a wall or different specifications of junction boxes.

Product Highlights

High Performance

- Dual-radio design with support for the latest IEEE 802.11be standard, providing 3.57 Gbps peak data rate for high-speed wireless access.
- Wi-Fi 7 technologies provide users with high-performance wireless experience.
- Advanced 4096-QAM technology, delivering higher data rates and enhanced user experience in demanding scenarios.
- Dynamic Frequency Selection (DFS) optimizes RF spectrum usage and minimizes radar interference, ensuring stable and efficient network performance.

High Security and Reliability

- Comprehensive wireless security features, including Wi-Fi Protected Access 3 (WPA3), 802.1X, and Private Pre-Shared Key (PPSK), delivering robust data protection.
- Multicast-to-unicast conversion and intelligent monitoring enhance the stability of multimedia services and overall network reliability.

Flexible Deployment and Power Supply

- The RG-CAP72-WP supports PoE-in and PoE-out. In particular, it can directly supply power to indoor IP phones or other IoT devices, eliminating the hassle of individually wiring

these devices.

- In addition, the RG-CAP72-WP can be mounted against a wall or different specifications of junction boxes, making space deployment and environmental requirements less challenging.

Ease of Management

- Flexible deployment options with support for Fat, Fit, and Cloud modes, offering simplified provisioning and comprehensive remote management.
- Integration with Ruijie Cybrey Cloud for centralized management, including device configuration, real-time monitoring, and one-click optimization for end-to-end network lifecycle management.

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/ Junction box-mount
Color	White
Lock option	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/be Radio 2, 802.11a/n/ac/ax/be
Data rates	Maximum combined peak data rate: 3.570 Gbps Radio 1: 2.4 GHz, 0.688 Gbps Radio 2: 5 GHz, 2.882 Gbps
Packet aggregation	802.11n/ac/ax/be: 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

	802.11be: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
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Port Specifications

Port Specifications	
Fixed service port	Uplink: 1 x 100/1000/2.5GBASE-T port, in compliance with IEEE 802.3af/at standard (PoE/PoE+) When powered by 802.3af (PoE), LAN 1 can not supply power to an attached device. Downlink: 4 x 10/100/1000BASE-T ports LAN 1 supports 48 V/10 W power supply to an attached device.
Fixed management port	1 x Micro USB 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	PoE input over PoE-in port: The power source equipment (PSE) complies with IEEE 802.3af/at standard (PoE/PoE+). Note: When powered by 802.3at (PoE+), the AP operates with the optimal performance.

PoE-out port	LAN 1 supports 48 V/10 W PoE output to an attached device. Note: When powered by 802.3af (PoE), LAN 1 can not supply power to an attached device.
Overall power consumption	---

Environment and Reliability

Environment and Reliability	
Temperature	Operating temperature: 0°C to +40°C (32°F to +104°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 62311 EN IEC 62311 EN 50665 FCC Part 15
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Software Specifications

WLAN

WLAN	
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 AC An AP can automatically discover the accessible AC. An AP can be automatically upgraded through the AC. An AP can automatically download the configuration file from the AC. 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 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 clientMaximum 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	
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
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RG-CAP72-WP	Wi-Fi 7 dual-radio Wall-Plate access point. Up to 4 spatial streams, peak data rate of 3.57 Gbps. The AP consumes one license of a CNC. In compliance with IEEE 802.11 a/b/g/n/ac/ax/be standard. Fat/Fit/Cloud mode switching. IEEE 802.3af/at-compliant (PoE/PoE+) power supply. Note: The power source equipment (PSE) needs to be purchased separately.
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