

RG-AP130-W

Wireless Access Point Datasheet

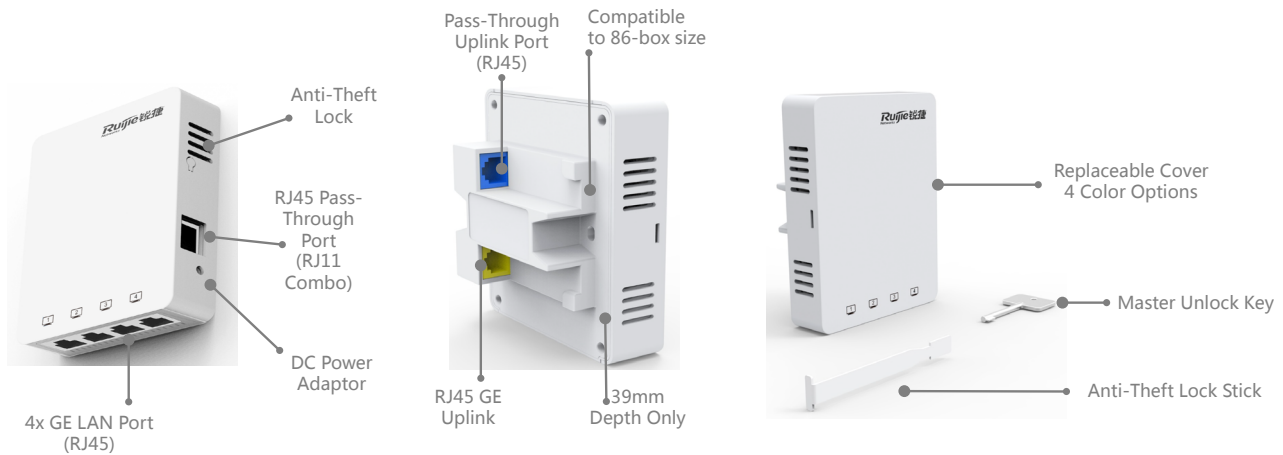


Ruijie RG-AP130-W Wall AP is designed for wireless deployment in hotels, offices, residential buildings and settings alike. The wall-mountable AP has the same size as a standard 86-type faceplate with integrated Ethernet and voice ports. Featuring a concise design and easy deployment, the AP enables zero disruption to the interior finishes and offers the best solution for scenarios with delicate interior design.

HIGHLIGHTS

- Fast and Easy WiFi Deployment
- Reuse Existing Cabling Structure for Investment Protection
- Standard 86-type Faceplate Cover (4 Color Options)
- Certified 802.11ac/a/b/g/n WiFi Standards

The dual-radio, dual-band AP supports concurrent operation of 802.11a/n/ac and 802.11b/g/n, delivering data rates of up to 300Mbps in 802.11n and 866Mbps in 802.11ac. The Wall AP provides 4 1000Mbps RJ-45 ports and 1 RJ-45 Voice/PoE Pass-through port (RJ-11 combo), delivering optimal wireless network coverage and cost protection with additional wired network interfaces and voice ports.



PRODUCT FEATURES

High-performance 802.11ac Wall AP

The Ruijie RG-AP130-W Wall AP adopts a dual-radio, dual-band design and supports concurrent operation of 802.11a/n/ac and 802.11b/g/n. The Wall AP provides 4 1000Mbps RJ-45 ports and 1 RJ-45 transparent Voice/PoE pass-through port (RJ-11 combo). The AP on the rear also offers 1 1000Mbps uplink port and 1 RJ-

45 transparent pass-through port (RJ-11 combo). The dual-band 2.4G and 5G coverage can deliver data rates of up to 300Mbps in 802.11n and 866Mbps in 802.11ac, providing an unparalleled network experience.

Easy and Fast Deployment

The RG-AP130-W Wall AP adopts a wall-mounted design with 2-step easy deployment:

Step 1: Remove the original 86-type faceplate from the wall.

Step 2: Directly install the plug-and-play Wall AP and connect with original UTP cable (PoE).

This breaks through traditional wireless network construction methods by reusing existing network cables and minimizes the impact of network construction in hotel or similar settings. As no additional cabling is required, the Wall AP delivers maximum business agility and investment protection. Ruijie also offers a wide range of optional accessories to meet your unique deployment needs.

Difficult to lay cable?



Traditional challenges on laying additional cabling for AP installation

Stylish Casing in Different Colors

The RG-AP130-W Wall AP offers a collection of colorful covers to accommodate various interior design styles. You can select the best fit from gold, white, black and silver.

Full Signal Coverage

Traditional APs are installed in corridors and the indoor network signals are weak or even completely degenerated after wall penetration. The RG-AP130-W Wall AP, on the other hand, can be installed inside the room and hence ensures full coverage anywhere for the best user experience of voice, video or Internet browsing.

Unified Management of FAT and FIT Modes

The RG-AP130-W Wall AP supports both FAT and FIT AP modes, which can be flexibly selected as desired. The Wall AP allows easy upgrade of WLAN to a large-scale network, fully protecting users' investment costs. In the hotel scenario, the deployment involves a large number of guest rooms and so is the amount of APs. AP management of such a large scale is what current hospitality solutions struggle to guarantee. The RG-AP130-W Wall AP offers a simple and easy solution to lessen administrator workload. Teaming up with Ruijie's Wireless Access Controllers series, the solution enables centralized AP management and fast troubleshooting. Comparing with traditional SOHO APs, the RG-AP130-W Wall AP greatly facilitates O&M personnel to manage the whole wireless network.

Comprehensive Security Protection

Industry-leading Double Security Designs

The RG-AP130-W Wall AP is manufactured using qualified ABS+PC materials, offering superior shock, pressure and temperature resistance for secure deployment. The specially designed screw protects the AP from malicious damage or theft. The Wall AP and color case also guard against theft with a unique security key. The administrator can manage all the APs using one security key with ease.

User Access Control

The RG-AP130-W Wall AP supports a broad library of user authentication methods such as Web, 802.1x, MAC address, and local authentication for customers' choice. It also supports Ruijie's end-to-end BYOD (Bring Your Own Device) Solution, complies with a standard access control system, and strictly defines access control policies in terms of user access, authorization, host compliance check, network behavior monitoring, and network threat defense. All these control measures ensure that users are authenticated before accessing a network and securely enjoy network services.

Full Security Protection

Teaming up with Ruijie's integrated network management system RG-SNC (Smart Network Commander) and RG-WS Wireless Access Controller Series, the Wall AP delivers outstanding security features including Wireless Intrusion Detection System (WIDS), RF interference location, rogue AP countermeasures, anti-ARP spoofing, and DHCP.

Multiple Easy-To-Use Authentication Modes

The RG-AP130-W Wall AP can fully integrate with Ruijie Security Management Platform (RG-SMP) system which provides multiple advanced authentication options, such as Protected Extensible Authentication Protocol (PEAP), SMS Authentication, and QR Code Authentication.

If users are authenticated via PEAP, they just need to perform password authentication for once. In other words, they are only required to enter user credentials during their first network visit.

If users are authenticated via SMS, they need to sign in first with their mobile phone numbers and then obtain usernames and passwords from the SMS sent to their mobile phones.

QR code authentication is another wireless security highlight. After accessing a wireless network, users will obtain a QR code and need to get it scanned by any authorized staff's mobile phones to gain network access.



QR Code Guest Authentication

TECHNICAL SPECIFICATIONS

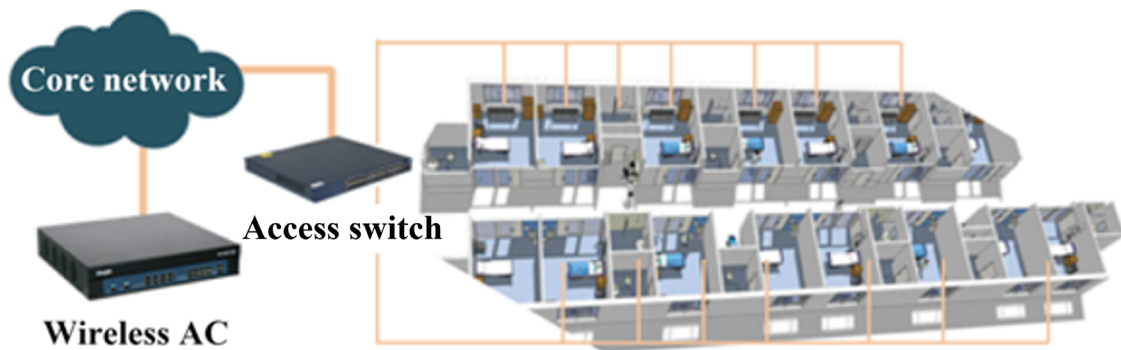
Model	RG-AP130-W
Radio	Concurrent dual-band dual-radio
Protocol	802.11a/b/g/n/ac
Operating Bands	2.4GHz and 5GHz
Antenna	Built-in antenna 2×2 MIMO
Spatial Streams	2
Max Throughput	300Mbps@2.4GHz 867Mbps@5GHz 1.167Gbps per AP
Modulation	OFDM: BPSK@6/9Mbps QPSK@12/18Mbps 16-QAM@24Mbps 64-QAM@48/54Mbps DSSS: DBPSK@1Mbps DQPSK@2Mbps CCK@5.5/11Mbps MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM and 256QAM
Receiver Sensitivity	11b: -95dBm(1Mbps), -91dBm(5.5Mbps), -89dBm(11Mbps) 11b:-95dBm(1Mbps), -91dBm(5.5Mbps), -89dBm(11Mbps) 11n:-90dBm@MCS0, -70dBm@MCS7, -88dBm@MCS8, -69dBm@MCS15 11ac HT20: -88dBm (MCS0), -63dBm (MCS9) 11ac HT40: -85dBm (MCS0), -60dBm (MCS9) 11ac HT80: -82dBm (MCS0), -57dBm (MCS9)
Maximum Transmit Power	≤100mW (20dBm, transmit power of the RF card only)
Adjustable Power	1dBm
Service Ports	Front: 4 10/100/1000M Ethernet ports Side: 1 USB port 1 DC port 1 RJ-45 port (RJ-11 combo) Rear: 1 10/100/1000M uplink port 1 RJ-45 Voice/PoE pass-through port (RJ-11 combo)
Management Port	1 console port (Micro USB)
Lock	Standard: Anti-theft screws and ordinary screws Optional: Lock and key
Color Plate Cover Options	White, black, silver and gold
LED Indicators	1 LED status indicator
IP Rating	IP41
Safety Standard	GB4943, EN/IEC 60950-1
EMC Standard	GB9254, EN301 489
Health Standard	EN 62311
Radio Standard	EN300 328, EN301 893

Model		RG-AP130-W
Vibration Standard		IEC60068-2-31, ETSI EN300 019, NEBS GR-63-CORE
Wi-Fi Alliance Certification		Support
WLAN	Maximum clients per AP	Up to 64
	SSID Capacity	Up to 8 per radio Up to 16 per AP
	SSID hiding	Support
	Configuring the authentication mode, encryption mechanism, and VLAN attributes for each SSID	Support
	Remote Intelligent Perception Technology (RIPT)	Support
	X-speed	Support
	Intelligent identification of smart device	Support
	Intelligent load balancing based on the number of users or traffic	Support
	STA control	SSID/radio-based
	Bandwidth control	STA/SSID/AP-based speed control
	Preference for 5 GHz (band select)	Support
	Dynamic Frequency Selection (DFS)	Support
Security	PSK, Web, and 802.1x authentication	Support
	Data encryption	WPA (TKIP), WPA2 (AES) , WPA-PSK, and WEP (64 or 128 bits)
	WeChat authentication	Support
	QR code authentication	Support
	SMS authentication	Support
	PEAP authentication	Support
	Data frame filtering	Whitelist, static/dynamic blacklist
	User isolation	Support
	Rogue AP detection and countermeasure	Support
	Dynamic ACL assignment	Support
	WAPI	Support
	RADIUS	Support
	CPU Protection Policy (CPP)	Support
	Network Foundation Protection Policy (NFPP)	Support
	Wireless Intrusion Detection System (WIDS)	Support
Remote probe	Future release support	

Model		RG-AP130-W
L2 Features	IGMP snooping	Support
	VLAN features	Support
Routing	IPv4 address	Static IP address or DHCP reservation
	Multicast	Multicast to unicast conversion
Location-based Service	Wireless position tracking	Support
Management and Maintenance	Network management	SNMP v1/v2C/v3, Telnet, TFTP, FTP and Web management
	Visualized wireless heat map analysis	Support
	Real-time spectrum analysis	Support
	Fault detection and alarm	Support
	Statistics and logs	Support
	FAT/FIT switching	The AP working in FIT mode can switch to the FAT mode through the RG-WS wireless AC. The AP working in FAT mode can switch to the FIT mode through a local console port or Telnet.
Dimensions (W x D x H) (mm)		116 × 86 × 39
Weight		0.23kg
Installation Mode		Standard 86-type faceplate installation
Power Supply		PoE (802.3af)
Power Consumption		<8W
Temperature	Operating Temperature: -10°C to 45°C	
	Storage Temperature: -40°C to 70°C	
Humidity	Operating Humidity: 10% to 95% (non-condensing)	
	Storage Humidity: 5% to 95% (non-condensing)	

TYPICAL APPLICATIONS

The RG-AP130-W Wall AP can be deployed in the networks of hotels, office towers, and residential buildings in the place of the original wired or telephone cable panel. The Wall AP provides full wireless coverage for a room with up to 25 end users.



Typical Topology Diagram for RG-AP130-W Wall AP

ORDERING INFORMATION

Model	Description	Remarks
RG-AP130-W	Wall-mounted Wireless AP, standard size of 86-type faceplate, support concurrent 802.11a/n/ac and 802.11b/g/n, 4 GE LAN, 1 GE Uplink, 1 Voice/PoE Pass-through Port (RJ-45/RJ-11), 4 color plate cover options (white by default), FAT/FIT mode, PoE power supply (PoE adapter sold separately)	Mandatory
RG-AP130-W (Black Cover)	RG-AP130-W black color plate, interchangeable with the default white color plate (Minimum order quantity: 500 units)	Optional
RG-AP130-W (Gold Cover)	RG-AP130-W gold color plate, interchangeable with the default white color plate (Minimum order quantity: 500 units)	Optional
RG-AP130-W (Silver Cover)	RG-AP130-W silver color plate, interchangeable with the default white color plate (Minimum order quantity: 500 units)	Optional
RG-AP130-W (Base)	RG-AP130-W white plastic mounting bracket (wall or desk mounting)	Optional
RG-AP130-W (Security Pack)	RG-AP130-W security pack with 1 master security key and 50 antitheft security lock bar	Optional



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