

Indoor Access Point Datasheet

AP720-L / AP710 / AP130(L)



In today's SMB environment landscape, there are many challenges facing by business owner to provide good performance yet highly reliable Wi-Fi network to cater the internal business requirement as well as offers guest Wi-Fi services to visitors. Few common challenges of customers:

- Insufficient budget
- Require simple Wi-Fi deployment
- Lack of IT staff to manage the Wi-Fi
- Customers complain about the Wi-Fi

Ruijie truly understands the challenges of to have best class of Wi-Fi in SMB environment. With the dual-band access points of the Ruijie SMB AP Series, cost effective way to increase your overall Wi-Fi network operational efficiency and enable highly secure wireless for employee and guest access.

Highlights

- Maximize ROI (Cloud Management & Big Data Optimization Service)
- Hybrid Management (Cloud / Controller / Standalone)
- Fast Provisioning by Ruijie Cloud Mobile APP
- Automated Radio Optimization by Big Data Technology
- Scenario-based AP Options (Ceiling / Wall-mount / Wall Plate)
- Stylish Design (Integrated Antenna and Hidden Cabling)
- Replaceable Faceplate Cover Design: AP130(L)
- 3-Year Hardware Warranty and 24/7 Online Support

Overview

In today's fast-changing business environment, a reliable and high-performance Wi-Fi infrastructure is plays a vital role to ensure the business continuity.

Ruijie AP720-L and AP710 are purpose-built wireless indoor access points designed for small and medium-sized business (SMB).

Ruijie AP130(L) SMB Wall AP is designed for wireless deployment in budget 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.

Enterprise Experience for SMB

Ruijie Cloud

Public cloud services from Ruijie provide a centralized device management platform for SMB customer. It provides single pane of glass to deploy, manage and optimize your wired and wireless equipment without need of specialized IT staff.

Ruijie Cloud also offers an integrated mobile APP to help you deploy and monitor your network on-the-go.

Enterprise Support for SMB

Ruijie's SMB products are all bundled with an exclusive 3-year product warranty free of charge. Ruijie customers can also enjoy the 24/7 complimentary professional online support which is staffed with Ruijie certified experts to respond to your problems efficiently.

Product Features

Flexible Hybrid Management

Ruijie SMB AP offers the flexibility for SMB to choose the mode of management. There are 3 different management modes for selection. For the Ruijie Cloud option, no extra cost or firmware upgrade is required, which saves company expenses and time.

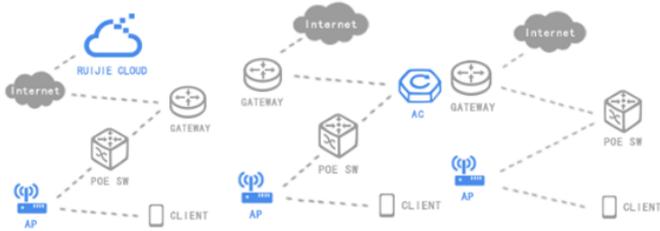


Figure 1: Ruijie Cloud

Figure 2: Hardware Controller

Figure 3: Standalone Controller

Selection between Ruijie Cloud and Hardware Controller

In some cases, a local on-premise wireless controller is required due to some business requirement. Ruijie SMB AP allows the flexibility according to customer preference, the AP can be either managed by Ruijie Cloud or on-premise wireless controller.

Category	Ruijie Cloud	Hardware Controller
Application Scenarios	SME, Retail, Boutique Hotel	Enterprise, High Density Wi-Fi
Deployment Mode	Cloud-based (Zero Provisioning)	On-premises Hardware
Managed Devices	Unlimited	Varies by Model
Device Management	AP /Switches/Gateway ¹	AP only
RF Optimization	Basic	Advanced (WIS)
Roaming	Yes	Yes
Mobile Operation	Yes	Yes
Captive Portal	Yes	Yes

Figure 4: Ruijie Cloud and Hardware AC Comparison

Stylish Design

SMB APs all employ a simplistic and stylish design to fit different scenarios. The APs feature an integrated antenna design and hidden LAN port along with hidden cabling to hide the messy wires, which gives a professional and simplistic deployment style that is less noticeable.



Figure 5: Stylish Hidden LAN Port Design for AP720-L/AP710

PPSK Enterprise Authentication²

For internal staff, it is hassled to maintain the pre-defined PSK and distribute among them. Especially for offboarding employee, potential Wi-Fi PSK leaked out could be harmful to your network. With Ruijie PPSK, you now can easily provide different Wi-Fi password for each user. It tied to individual end user devices like laptop or smartphone and the same password can't be used by other. Possibility of Wi-Fi password leak out eliminated completely.

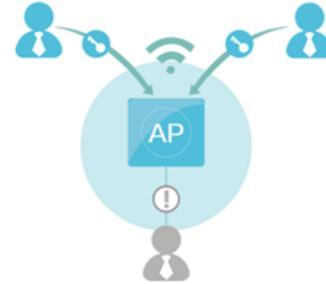


Figure 6: Simple and Effective Wireless Security Practice

Social Media Login³

Social media is huge part of our lives, it is easier to and more convenient to let your guest login to your Wi-Fi by using their social media credential. Ruijie Cloud provides an ease of use integrated Facebook for guest Wi-Fi login.

A simple captive portal with Facebook login button can be built easily by using step by step wizard. No web programming skill is required!



Figure 7: Simple Captive Portal with Facebook Login Button

Fast Provisioning⁴

Ruijie Cloud provides a mobile APP which allows devices onboarding and provisioning completed by just 4 simple steps. Typically, it takes less than 5 minutes from unboxing Ruijie wireless access point to Wi-Fi up and running, which significantly simplifies Wi-Fi deployment.



Figure 8: 4-step Fast Provisioning

¹ Future release support

² Ruijie Cloud or Hardware Controller required

^{3,4} Ruijie Cloud required

Mobile Operation On-The-Go⁵

Ruijie Cloud offers an innovative breakthrough which allows device operation and management from your smartphones at your fingertips. Now you can monitor your Wi-Fi user experience, traffic and client analysis anytime and anywhere. An alarm notification will be pushed to your smartphone if there's device issue found in your network. It helps SMB business to know and understand the real time situation of Wi-Fi network.



Figure 9: Monitoring Wi-Fi Networking Using Your Smartphone

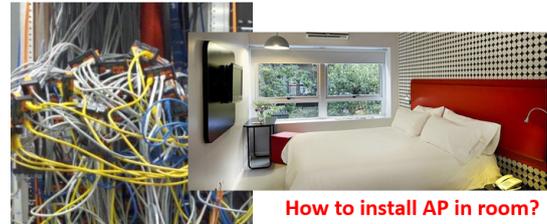
Easy Installation

The RG-AP130(L) 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 on hotel or similar settings.

Difficult to lay cable?



How to install AP in room?

Figure 10: Traditional challenges on laying additional cabling for AP installation

Technical Specifications

Model	Ruijie AP720-L	Ruijie AP710	Ruijie AP130(L)
Target Deployment	Retail Chain Store, Small & Medium-sized Business Office, Boutique Hotel		
Type	Indoor Ceiling/Wall-mounting		Wall Plate
Basic Specifications:			
Radio	Concurrent Dual-band		
Protocol	802.11a/b/g/n/ac Wave2	802.11a/b/g/n/ac	802.11a/b/g/n/ac
Operating Bands	802.11b/g/n: 2.4GHz to 2.483GHz		
	802.11a/n/ac: 5.150GHz to 5.350GHz, 5.47GHz to 5.725GHz, 5.725GHz to 5.850GHz (vary depending on countries)		
Antenna	Built-in Antenna		
Max Throughput	1167Mbps	1167Mbps ⁶	1167Mbps
Spatial Streams	2	2 ⁷	2
Maximum Transmit Power	100mW		
IP Rating	IP41		
Ports:			
Service and Management Ports	1 10/100/1000BASE-T Ethernet uplink Port LAN1 supports PoE 1 Console Port (Micro USB)		Front: 4 10/100M Ethernet ports Side: 1 RJ-45 pass-through port (RJ-11 combo) Rear: 1 10/100/1000M uplink port 1 RJ-45 pass-through port (RJ-11 combo)
Power:			
Power Supply	local power supply (DC 5V/3A) PoE (802.3af)		PoE (802.3af)
Power Consumption	<12.95W		<8W

⁵ Ruijie Cloud required

⁶ Applicable for AP710 hardware v1.3, throughput upgraded from 733Mbps to 1167Mbps

⁷ Applicable for AP710 hardware v1.3, spatial stream upgraded from 1SS to 2SS 5G

Model	Ruijie AP720-L	Ruijie AP710	Ruijie AP130(L)
WLAN:			
Maximum clients per AP	256		32
BSSID capacity	32		16
Remote Intelligent Perception Technology (RIPT)	Support		
Intelligent load balancing based on the number of users or traffic	Support		
STA control	Support		
Bandwidth control	Support		
Preference for 5GHz (band select)	Support		
Security:			
PSK, Web, 802.1X authentication	Support		
PPSK authentication	Support		N/A
Data encryption	WPA (TKIP), WPA2 (AES), WPA-PSK, and WEP (64 or 128 bits)		
PEAP authentication	Support		
User isolation	Support		
Rogue AP detection and countermeasure	Support		
RADIUS	Support		
Wireless Intrusion Detection System(WIDS)	Support		
Wireless Intrusion Prevention System (WIPS)	Support		
Routing:			
IPv4 address	Static IP address or DHCP reservation		
IPv6 address	Manual or automatic configuration		
Multicast	Multicast to unicast conversion		
Management and Maintenance:			
Network management	SNMP v1/v2C/v3, Telnet, TFTP, Web management		
Cloud AC management	Support		
FAT/FIT switching	Support		
External Characteristics:			
Lock	Support		
LED Indicators	1 LED indicator (red, green, blue, orange, and flashing modes, breathing flashing mode for smart device access, and the indicator can be switched off to enable silence mode)		1 LED status indicator (hidden) (configurable to switch off)
Relevant Standards:			
Wi-Fi Alliance Certification	Support		
Radio Standard	EN300 328, EN301 893		
EMC Standard	GB9254, EN301 489-1, EN301 489-17		
Safety Standard	GB4943 , EN/IEC 60950-1		
Specifications:			
Dimensions (W x D x H) (mm)	194 × 194 × 37		116 × 86 × 42
Weight	0.42kg		0.23kg
Work Environment:			
Temperature	Operating Temperature: -10°C to 50°C Storage Temperature: -40°C to 70°C		Operating Temperature: -10°C to 45°C Storage Temperature: -40°C to 70°C
Humidity	Operating Humidity: 5% to 95% (non-condensing) Storage Humidity: 5% to 95% (non-condensing)		Operating Humidity: 10% to 95% (non-condensing) Storage Humidity: 5% to 95% (non-condensing)

Application Scenarios

1. Ruijie Cloud

Cloud Management

- Unified Device Management
- Flexible Group Configuration

Mobile Operation

- Seamless Provisioning
- Mobile Monitoring & Alert Notifications

Simplified Security

- PPSK Staff Authentication
- Hotspot Guest WiFi (Social Login)

Cloud Analytics

- Automated WiFi Optimization
- WiFi Experience Analysis

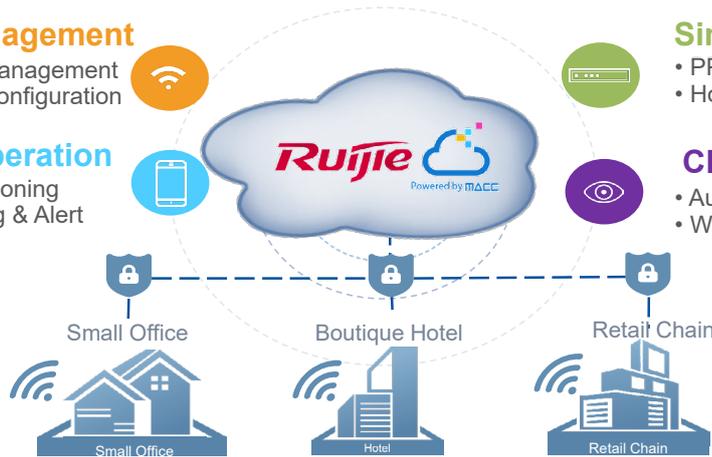


Figure 11: Ruijie Cloud Solution Highlights

Ruijie SMB AP series is designed for the simplicity and ease of use application in many SMB scenarios including small offices, boutique hotel, retail store and etc. We are helps SMB to streamline the IT operational efficiency, reduce the WiFi deployment complexity with cost effective approach. Ruijie Cloud Service is Ruijie's easy and efficient cloud solutions for chain stores, small and medium-sized businesses and boutique hotels. The solutions include equipment deployment, monitoring, network optimization and operational lifecycle management; enabling customers with simple plug and play deployment and operation and maintenance.

2. Hardware Controller

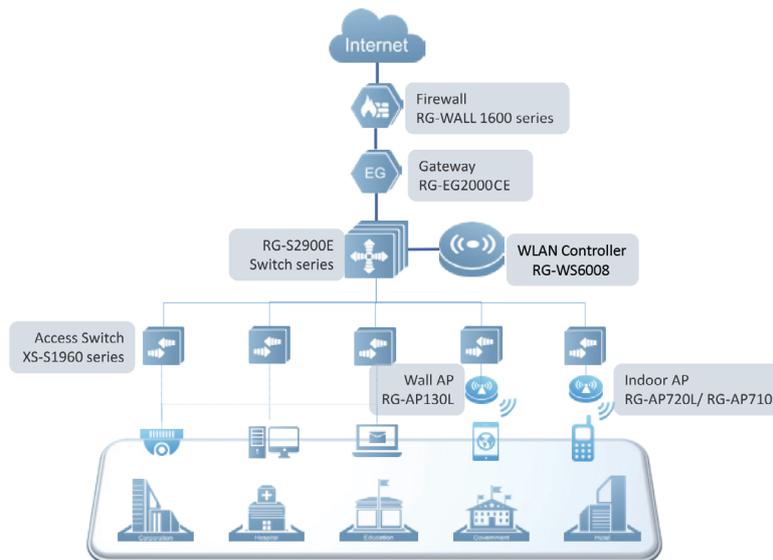


Figure 12: Comprehensive Solution for SMB Market

For higher performance or stringent security scenarios, Ruijie offers the on-premise hardware controller option for flexible management. Ruijie provides comprehensive cost-effective enterprise-grade network solution to SMB market, consisting of switches, wireless, gateways, security, etc. The solution provides customers with scenario-based AP options (indoor/wall AP), flexible WLAN management, reliable switch design with conformal coating protection, Layer 7 application protection and web filtering.

Ruijie WS6008 can be deployed as the wireless controller which simplifies the management of your wireless network by serving as a single point of management for all the access points in the network. Ruijie WS6008 supports up to maximum of 200 manageable access points, hence it increases the scalability and ensures your IT investment protection. Ruijie WS6008 offers full range of enterprise Wi-Fi features including rouge AP mitigation, automated Wi-Fi optimization (WIS), flexible authentication modes (web authentication, 802.1X), etc.

Ordering Information

Model	Description
RG-AP720-L	Indoor 802.11ac Wave 2 Access Point, dual-radio, dual-band, 2 spatial streams, access rate up to 1.167Gbps, 1 10/100/1000BASE-T uplink port; Bundled with Ruijie Cloud Service lifetime license (PoE and local power adapters sold separately)
RG-AP710	Indoor 802.11ac Access Point, dual-radio, dual-band, 2 spatial streams, access rate up to 1167Mbps, 1 10/100/1000BASE-T uplink port; Bundled with Ruijie Cloud Service lifetime license (PoE and local power adapters sold separately)
RG-AP130(L)	802.11ac Wall-plate Access Point, dual-radio, dual-band, 2 spatial streams, 4 10/100BASE-T LAN port, 1 10/100/1000BASE-T uplink port, 4 color plate cover options (white by default, minimum order quantity for black/silver/gold: 500 units); Bundled with Ruijie Cloud Service lifetime license (PoE adapter sold separately)
Optional	
RG-WS6008	WS Series Wireless Controller, 6 1000BASE-T ports, 2 1000BASE-T/1000BASE-X ports (combo), 32 APs License by default, maximum 200 APs or 400 Wall APs License



Ruijie

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