# Ruijie Cloud-managed Enterprise Product Catalog

2024

**INNOVATION**
Beyond Networks

**Ruijie**

# Index

# About Ruijie

**First-class**
China
enterprise-class
networking
Vendors

Over **35%**
compound growth
for **15** continous
years

Founded in 2000
**59** branches
**7** R&D centers

**7000+** employees
**20000+** channel partners

**Top 1** China's Enterprise-
Class WLAN Product Market
Shipment
Source:IDC,March 2023

## Inspiring Achievements

### Ethernet Switch TOP3

- No.3 market share in the Chinese Ethernet switch market
  （Data source: IDC 2022H1）
- Average growth of 49.8% in the Chinese data center switch market in the recent three years

### Wireless Network TOP3

- No.3 in worldwide small-business WLAN access points shipments in 2022H1
  （Data source: Gartner）
- No.3 market share in the Chinese enterprise-class WLAN market
  （Data source: IDC 2022H1）
- No.1 in Wi-Fi 6 product shipment for 4 consecutive years
  （Data source: IDC 2022）

### Cloud Desktop TOP1

- No.1 market share in the Chinese enterprise-class VDI client market for 6 consecutive years
  （Data source: IDC 2020）
- No.1 market share in the Chinese local computing IDV cloud desktop market for 2
  consecutive years
  （Data source: IDC 2022）

# Trusted Partner of Various Industries

Ruijie's innovative products and solutions have been widely used in government, telecommunications, Internet, finance, transportation, education, healthcare, enterprise, and other industries for informatization construction.



**Government**

**70+** national government agencies



**Health Care**

Serving **60%** of the top 100 hospitals in China



**Finance**

**1000+** financial institutions



**Education**

**100%** double first-class universities



**SMB**

More than **1.3 million** SME customers
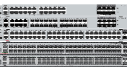


**Enterprise**

Serving **200+** of China's top 500 companies

# Ruijie Cloud Service

## RUIJIE CLOUD PRODUCT FAMILY

| Access Controller | Ruijie Cloud |
|---|---|
| **RG-WS6000 Series**<br>● 224 to 1152 APs<br>● VAC, Radius Integration | **Ruijie** LIFETIME FREE<br>● Unified Device Management<br>● Cloud Optimization & Analytic<br>● Reporting & Compliance<br><br>● Ruijie Cloud app, free to Download<br>● Mobile Provisioning<br>● Mobile Inspection & Optimization<br>● Mobile Monitoring & Alarm |

### Cloud Managed Switches

**RG-CS88-8 Chassis Core Switch**
- 8 Slots
- Hot Swappable
- 100/40G ready

**RG-CS86 Series Full 10GE**  **RG-CS86 Series Multi GE**
**10G L3 Multi-G  Aggregation Switches**
- 2.5/5/10G PoE++
- Upto 32 10G (SFP+)
- Upto 4 x 25G & 2 x 40G
- Dual Power & FAN

**RG-CS85 Full L3 Aggregation Switches**
- Support VSU
- 24SFP options
- 8 SFP+ uplinks
- Layer 3 routing

**RG-CS83-PD Series**  **RG-CS83 Series**
**L3 Access Switches**
- Support VSU
- Layer 3 routing
- Dual PSU

**RG-S2915-L Series L2+ Access Switches**

### Cloud Managed APs

#### Ceiling Mount | Wall Plate | Outdoor

**Wi Fi 6**
**RG-AP820-L(V3)**
- 4 Stream
- AX3000
- 1GE + 2.5G SFP

**Wi Fi 6**
**RG-AP810-L**
- 4 Stream
- AX1800
- 1GE

**Wi Fi 6**
**RG-AP180**
- AX1800
- 5 * GE Port
- IPTV support

**Wi Fi 6**
**RG-AP680(CD)**
- IP68
- AX1800
- 1 * SFP+1*GE
- Directional Built-in Ant.

**Wi Fi 6**
**RG-AP680-L**
- IP68
- AX3000
- 1 * SFP+1*GE
- Omni-directional Built-in Ant.

**Wi Fi 6E**
**RG-AP880-L**
- Wi-Fi 6E 4x4
- 2.4G/5G/6GHz
- 8 Stream
- 5Gbps Combo
- 1Gbps PoE Out

**Wi Fi 6**
**RG-AP840-L**
- AX5400
- 4x4 MIMO
- 5Gbps Combo
- 1Gbps PoE Out

**Wi Fi 6**
**RG-AP180P-L**
- AX3000, 2x2 MIMO
- 2.5Gbps Uplink
- 4 x 1Gbps Downlink
- LAN1 PoE Out
- Flat Design

**Wi Fi 6**
**RG-AP680P-L**
- IP68, AX6000, 4x4 MIMO
- 10G SFP+, 5G RJ45
- 1G RJ45 PoE Out
- Built-in Omni-directional Ant.

### Firewalls

**RG-WALL 1600-Z3200-S**
1-3 Gbps firewall throughput
- 10G SFP+, 1G SFP, 1G RJ45
- Extensible application control throughput
- 3000 Firewall policies

**Performance Upgrade License**  **5-in-1 Library License**

## ONE-STOP SOLUTION FOR SME

Lifecycle Support Without Compromise

- Zero-server Installation
- Mobile Dummy Provisioning
- Rich Enterprise Features
- Cloud Operation & Maintenance
- Wi-Fi Optimization
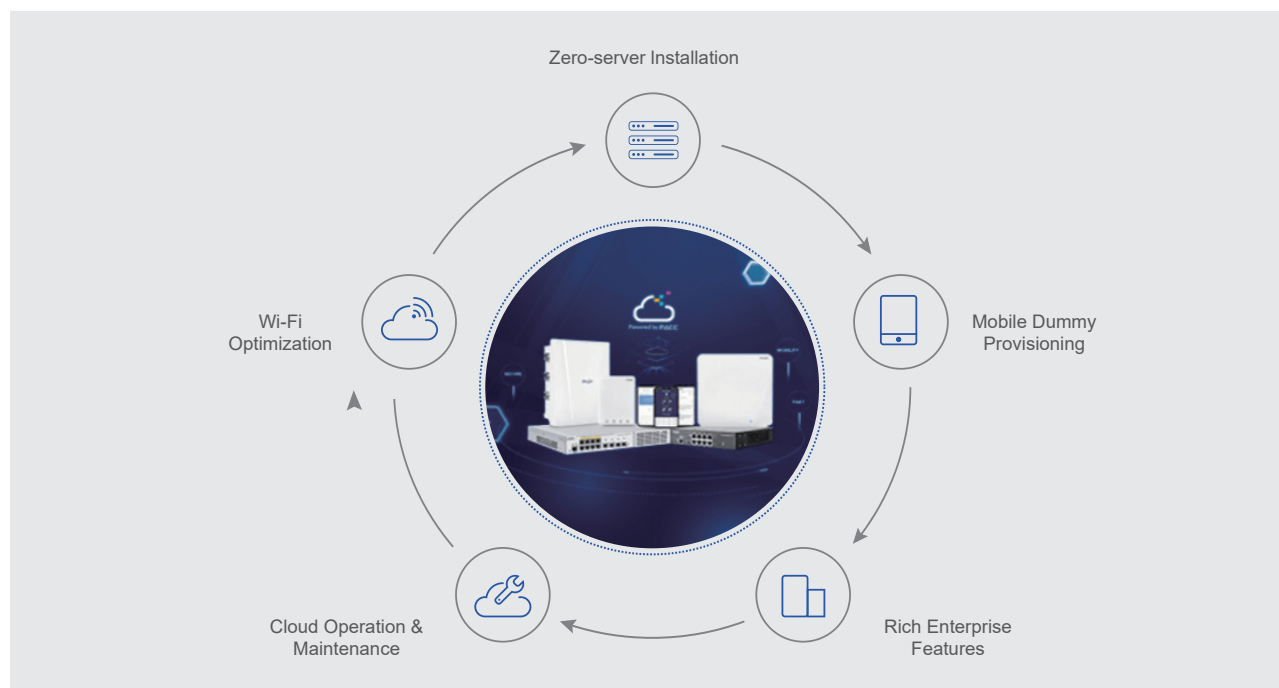
# IDEAL CHOICE FOR MANAGED SERVICE PROVIDER (MSP)



**Full Networking Product**

Unified Management for all Ruijie wireless access points, Switches and Gateways

01



**Custom Service**

Custom service (Elite Cloud) for ODM partners. Own cloud at lesser cost.

02



**Multi-tenant Platform**

Support flexible device grouping & sub-account privileges

03



**Limited Lifietime Free Cloud Platform**

No annual subscription for Cloud Management

04

## TAILOR-MADE FOR INDUSTRY



**Hospitality**

- Hybrid controller options
- Portal acceleration technology
- Flexible guest Wi-Fi policy
- Internet compliance audit



**Retail Chain**

- Multi-site cloud management
- Multi-language guest portal
- Site-to-Site VPN
- POS Integration



**Enterprise Office**

- 100+ user proven
- PPSK staff authentication
- No controller at premises
- Fast roaming



**University / High School**

- 10K+ high-density Wi-Fi
- Internet compliance audit
- L7 Traffic Flow Control
- Flexible guest/staff/student authentication



**Staff Accommodation**

- Flexible Voucher Package
- 1-stop Paid Wi-Fi solution
- 1-click Wireless Optimization
- Remote Cloud Troubleshooting



**Government**

- Private Cloud solution
- Project-based Customization
- Single-platform cloud management
- Mobile App Management

# RUIJIE CLOUD SERVICE

| RUIJIE CLOUD SERVICE |
| :--- |
| **One of the world-leading network management platforms** |

## OVERVIEW

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. Meeting the needs for automatic cloud RF planning and user experience monitoring, it also support mobile monitoring (add equipment using QR code scanning, network status monitoring and alarm). At the same time it provides flexible wireless user access control features, including high security "One person, one machine and one password" PPSK, built-in cloud Portal and Facebook authentication.
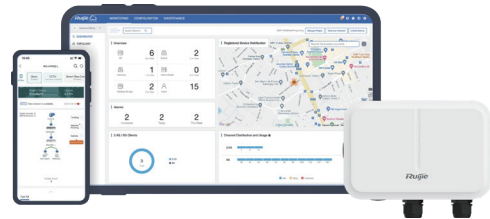
## KEY FEATURES

- Full Networking Product from Internet Firewall, Router, Switches to Wireless AP
- Enterprise Cloud Functionality and Ultimate Wireless Performance verified by Tolly
- Easy Provisioning by Mobile App

| Unlimited Capacity | Lifecycle Support Tools | Enterprise Auth | 99.99% Availability |
| :---: | :---: | :---: | :---: |

## RUIJIE CLOUD SPECIFICATIONS

| Overview | |
| :--- | :--- |
| System Capacity | Unlimited |
| Guest Portal | ✓ |
| Management Platform | Web / Mobile APP |
| Supported Products | Wireless AP, Switches, Gateway |
| **Unified Management & Moniitoriing** | |
| Dashboard with Google Maps | ✓ |
| Multi-tenant architecture | ✓ |
| Account Privileges | ✓ |
| Multi-level groups | ✓ |
| Project Handover | ✓ |
| Project Sharing | ✓ |
| **Site Survey Planning** | |
| Heat Map | ✓ |
| Automatic Wall Identification | ✓ |
| Floor Plan Format | JPG, PNG, BIMAP, DXF |
| Manually Drawing Obstacles | ✓ |
| Report Export | ✓ |

| Guest WiFi | |
| :--- | :--- |
| Customized captive portal | ✓ |
| Multi-languages support | ✓ |
| Control access to network resources | Time/Device/Traffic-limit policy |
| Flexible authentication options | PPSK (Staff), Voucher Access Code, One-click Portal, Social Login (Facebook), Open |
| **Reporting & Analytics** | |
| Daily/Weekly/Monthly Device/Client/Network Summary Report | ✓ |
| Top 10 SSID/Traffic/Client/ AP Analytic Report | ✓ |
| Report Export | CSV/PDF |
| **Troubleshooting** | |
| Remotely reboot devices, web-CLI advanced diagnostic | ✓ |
| Alarm Notification | Email / App |
| Operation/Upgrade/Config/ Client/Connection Log | ✓ |

# RUIJIE CLOUD MOBILE APP

## OVERVIEW

The Ruijie Cloud mobile App allows you anywhere anytime to manage your full network at fingertips. The App provides an dashboard view for multiple sites for you to monitor network realtime status. With step-by-step wizard, even a Newbie can master the whole network provisioning such as firewalls, routers, switches and wireless AP easily in minutes. With the App, you can perform WiFi Inspection and make WiFi optimization on-the-go without any IT professional assistance.

## KEY FEATURES

- Limited Lifetime Free for Ruijie Cloud Service tenants
- Manage Your Full Network at Fingertips
- Network Inspection, Optimization & Upgrade On-the-go
- Easy Network Provisioning by Mobile App (without PC)

**Tolly. Certified**

| Fast Network Provisioning | Full Network Monitoring | Wireless Optimization On-The-Go |



| Topology Management | Traffic Analytic | WiFi Optimization | Alarm Notice |
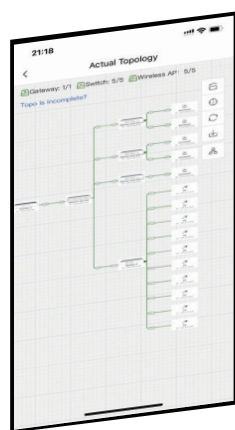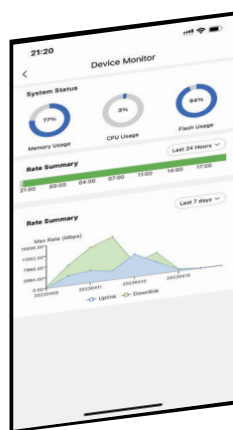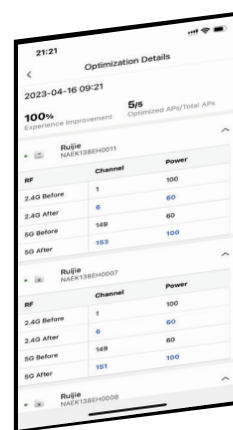
GET IT ON **Google Play**    Download on the **App Store**    Download on **AppGallery**
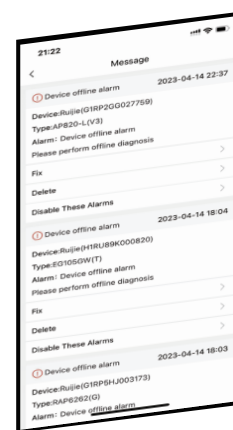
## APP SPECIFICATIONS

|  | Ruijie Cloud Mobile APP |
|---|:---:|
| Device Monitoring Dashboard | ✓ |
| Network Overview Topology | ✓ |
| User Monitoring | ✓ |
| Client Monitoring | ✓ |
| Switch Quick Provisioning | ✓ |
| AP Quick Provisioning | ✓ |
| Security GW Provisioning | ✓ |
| Wireless Network Inspection & Optimization | ✓ |
| Firmware Management | ✓ |
| Product Sizing & Selection Advisor | ✓ |

# SITE SURVEY PLANNER

FREE Cloud-based tool for early-on network deployment project planning

## KEY FEATURES
- Automatic Wall Identification
- Drag-N-Drop Signal Simulation
- Professional Report Formation
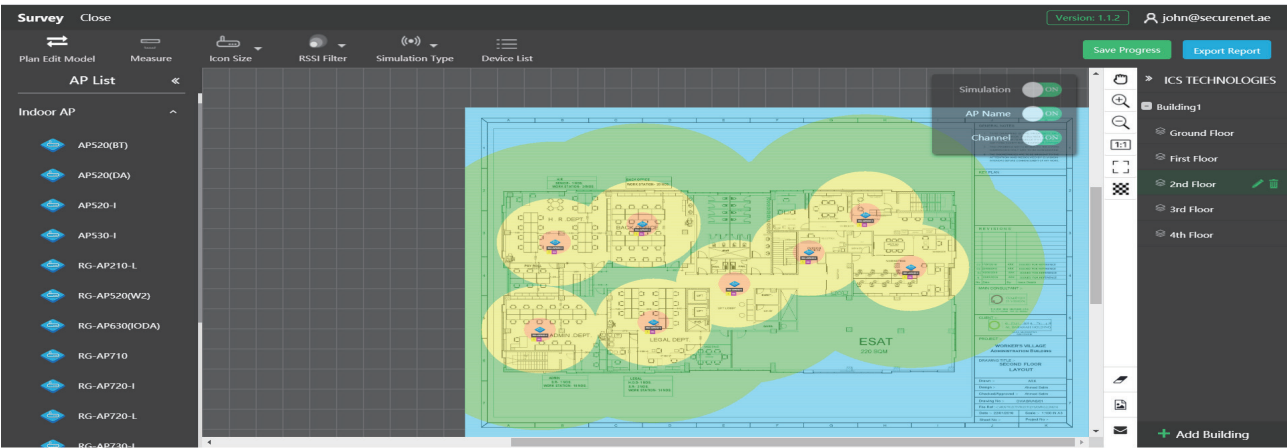
# Ruijie Switches
## Core, Aggregation, Access Switches

Product Family of Ruijie Cloud-managed Enterprise Switches
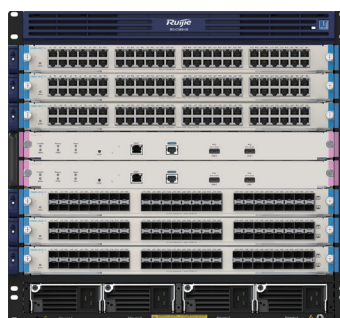
| | |
|---|---|
| **Core Switch** | <br>RG-CS88-08 |
| **Aggregation Switch** | RG-CS86 Full 10G Series<br><br>RG-CS86 Multi-Speed Series RG-CS85 Series |
| **Access Switch** | RG-CS83-PD Series<br><br>RG-CS83 Series RG-S2915-L Series (CS81) |

# KEY TECHNOLOGIES

## VIRTUAL SWITCHING UNIT (VSU) TECHNOLOGY

The Virtual Switching Unit (VSU) technology is an out of the box feature which requires no additional license. The switches are managed as 1 entity (Single IP) in VSU which simplifies management. This technology is also flexible, bandwidth of the VSU link can vary (1G/10G/40G/100G) and support distance stacking via fiber cables. Carries class <50ms failover time ensures smooth and uninterrupted transmission of key services. The Ruijie switch supports cross-device link aggregation for easy double uplink to server/switch, effectively maximizing bandwidth investment return.

Virtual Switching Unit (VSU) Technology

## MULTI-PROCESSING MODULAR OPERATING SYSTEM

Modular Operating System

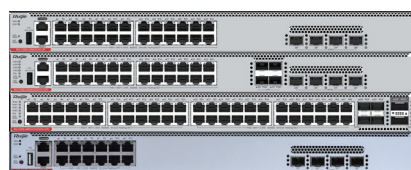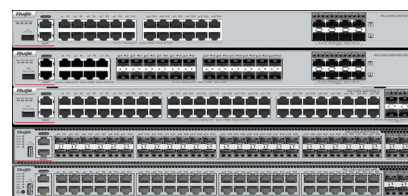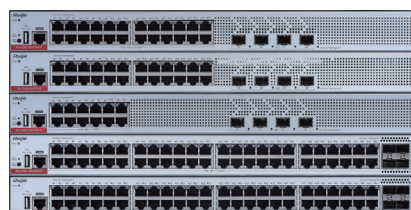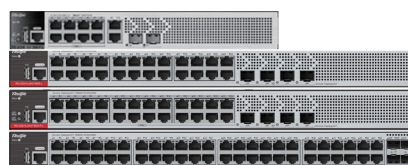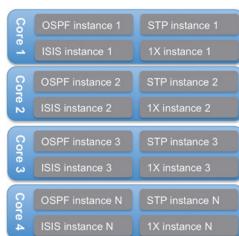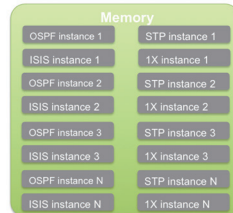Since 1998, Ruijie has been investing on the R&D of modular operating system. The software platform is designed based on the next-generation RGOS 12.X multi-processing modular operating system to integrate the service features such as loosely coupled firewall, wireless and authentication into a unified cloud network operating system. The software platform also supports full virtualization and offers rich data center and campus network features. The key availability indicators such as multi-processing modules, process backup and hot patch have reached the industry-leading level.

## NFPP: NETWORK FOUNDATION PROTECTION POLICY

The Ruijie NFPP (Network Foundation Protection Policy) is a protection system to enhance the inherent security performance of the switch by detecting attack sources and taking actions such as rate limiting and isolation, so that the switch processor and channel bandwidth resources can be protected and normal packet forwarding and protocol state can be guaranteed. NFPP protects the switch at data plane, management plane and control plane. The hardware-based protection allows the software-based protection mechanism to operate more efficiently without consuming too many resources, while software-based protection can cover the shortage of hardware-based protection, making protection policy more specific and flexible.

- Security Processing Mode based on network threat
- Automatically discover and prevent security attacks
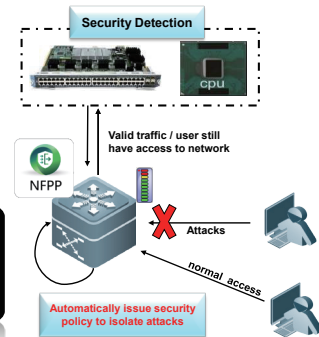
Security Detection Enabled by NFPP

## RUIJIE FAQ

### HOW CAN WE MAKE SURE POWERED DEVICES STILL WORK WHEN WE MAINTANCE THE NETWORK?

Since more IoT (Internet of Things) devices depend on PoE (Power over Ethernet) power supply nowadays, ZPoE (Zero-interruption PoE) feature is introduced to Ruijie PoE switches.

With such feature, the switch can provide nonstop PoE power supply to IP cameras, IP phones and other PD (Powered Device), even when a reboot happens. So operators can feel free to do maintenance job like firmware upgrade any time.
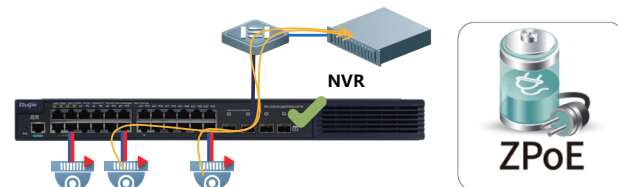
# Core Switch

## RG-CS88-08

### OVERVIEW

The RG-CS88-08 switch is a multi-service core switch released by Ruijie Networks for next-generation converged networks. The switch combines various features of campus networks and data centers. Using the RGOS12.X modular OS, the switch supports IPv4, IPv6, and other network services, meeting the application requirements of Ethernet in the future. The RG-CS88-08 switch can be deployed in campus networks, and data centers based on business requirements.

### KEY FEATURES

- With high-density 40GE and 100GE Ethernet ports: meets network development in the next decade
- Carrier-class Reliability: control engine, power & fan redundancy, hot-swappable components
- Powerful Multi-Service Capability: support large-scale MAC (up to 80K) and ARP table (up to 30K)
- Flexible management modes: including the Ruijie Cloud, SON, CLI, Web-based NMS, telnet, etc

| Model | Performance | | | | Hardware Specification | | Physical |
|---|---|---|---|---|---|---|---|
| | Switching Capacity | Forwarding rate | MAC table | ARP table | supervisor module slots | service module slots | Unit weight |
| RG-CS88-08 | 9.6Tbps | 5400Mpps | 80K | 30K | 2 | 6 | 35.6KG(Empty configuration ) |

# Aggregation Switch

## RG-CS86 FULL 10G SERIES

### OVERVIEW

Newly-launched RG-CS86-20XS4VS2QXS-D switch adopts advanced hardware architecture. Embedded with the latest modularized operation system, these 10G series switches provide better hardware processing performance and more convenient operation. Boasting 40G unlinking capacities, the RG-CS86-20XS4VS2QXS-D switch meets customers' demands for high-density access and high-performance aggregation. What's more, working as either aggregation layer switches for large networks or core switches for small and medium-sized networks, the RG-CS86-20XS4VS2QXS-D switch offers ideal and comprehensive end-to-end service, as well as various and flexible security configurations, thus making networks faster, safer and smarter.

### KEY FEATURES

- Customized for Large Campus Network: 20*10G/1G SFP+ port, 4*25G/10G SFP28 ports, 2*40G QSFP+ ports
- Exceptional Performance: up to 2.56Tbps switching capacity
- Network Virtualization: Virtual Switch Unit (VSU) supported
- Out-of-box with advanced layer 3 routing features
- High Reliability: hot patches, power & fan redundancy

| Model | Performance | | | | Fixed port | VSU | Physical |
|---|---|---|---|---|---|---|---|
| | Switching Capacity | Forwarding rate | MAC table | ARP table | SFP/ SFP+/SFP28/ QSFP28 port | | Unit weight |
| RG-CS86-20XS4VS2QXS-D | 760Gbps/ 2.56Tbps | 570Mpps/ 1260Mpps | 32K | 16K | 20 1G/10G SFP+ 4 10G/25G SFP28 2 40G QSFP+ | √ | 4.6KG |

# RG-CS86 MULTI-GE SERIES

## OVERVIEW

The RG-CS86 Multi-GE series switches offer flexible multi-GE access (10GE/5GE/2.5GE/1GE) and high-performance 10GE/25G/40GE uplink ports, catering to the demands of high-density access and high-performance aggregation. In compliance with the IEEE802.3bt standard, the RG-CS86 Multi-GE series switches adopt a high-power PoE power supply and achieve a maximum PoE output of 90 W through a single Ethernet port to significantly improve user experience.
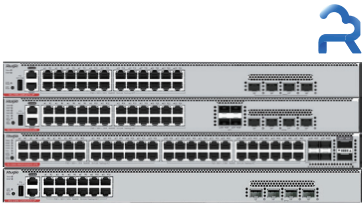
## KEY FEATURES

- Multi-GE Access: Meet requirements of  Wi-Fi 6, Wi-Fi 6E, and Wi-Fi 7 APs
- High-Power PoE power supply, support IEEE802.3bt standard
- IPv4/IPv6 dual-Stack multi-Layer switching
- Network Virtualization: Virtual Switch Unit (VSU) supported
- High Reliability based on RGOS12, CPP, and NFPP technology
- Easy network maintenance through Ruijie Cloud

| Model | Performance | | | | Fixed port | | POE Standard | Max. PoE | VSU | Physical |
| | Switching Capacity | Forwarding rate | MAC table | ARP table | RJ45 port | SFP/ SFP+/SFP28/ QSFP28 port | | | | Rack Height |
|---|---|---|---|---|---|---|---|---|---|---|
| RG-CS86-24MG4VS-UP | 440 Gbps/ 2.56Tbps | 327 Mpps | 32k | 16k | 24 1G/2.5G/ 5G BASE-T | 4 10G/25G SFP28 | 802.3bt | 370W | √ | 1U |
| RG-CS86-48MG4VS2QXS-UPD | 840 Gbps/ 2.56Tbps | 625 Mpps | 32k | 16k | 48 1G/2.5G/ 5G BASE-T | 4 10G/25G SFP28 2 40G QSFP+ | 802.3bt | 1600W | √ | 1U |
| RG-CS86-24XMG4XS4VS-UPD | 760 Gbps/ 2.56Tbps | 565Mpps | 32k | 16k | 24 1G/2.5G/ 5G/10G BASE-T | 4 1G/10G SFP+ 4 10G/25G SFP28 2 40G QSFP+ | 802.3bt | 1600W | √ | 1U |
| RG-CS86-12XMG4VS-UP | 440 Gbps/ 2.56Tbps | 327 Mpps | 32k | 16k | 12 1G/2.5G/ 5G/10G BASE-T | 4 10G/25G SFP28 | 802.3bt | 370W | √ | 1U |

# RG-CS85 SERIES

## OVERVIEW

Ruijie RG-CS85 series switches are the next-generation Ethernet switches that feature high performance and large capacity. The switches employ new-generation chips together with Ruijie's latest RGOS12.X modular OS to provide a larger entry capacity, faster hardware processing, and a better user experience. The RG-CS85 series switches support flexible 1000M access and provide four to eight fixed 10G SFP ports that support high-density high-performance uplink connection. They excellently meet user requirements for high-density access and high-performance convergence.
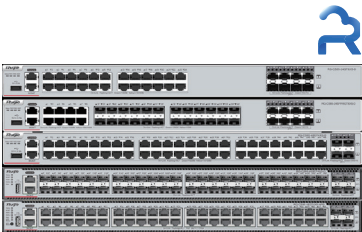
## KEY FEATURES
- Hardware redundancy, guaranteed service continuity, and network connectivity
- VSU technology, flexible networking, and high reliability
- Layer 3 routing control, adaptive to multiple services, efficient and guaranteed data transmission
- Network security policies and real-time monitoring, delivering enhanced network robustness
- Ruijie Cloud and diverse management modes make your business easy

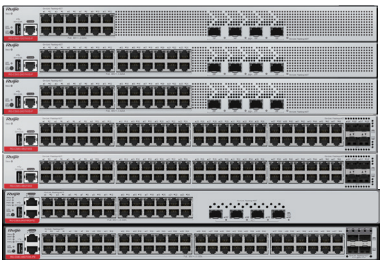| Model | Performance | | | | Fixed port | | Expansion | Max. PoE | VSU | Rack Height |
|---|---|---|---|---|---|---|---|---|---|---|
| | Switching Capacity | Forwarding rate | MAC table | ARP table | GE RJ45 port | SFP/ SFP+ port | Card type | | | |
| RG-CS85-24GT8XS-D | 880Gbps | 426Mpps/ 600Mpps | 64K | 24K | 24 | 8 SFP+ | 4 1/10G SFP+ port 2 40/100G QSFP28 port | NA | √ | 1 RU |
| RG-CS85-24SFP/ 8GT8XS-D | 880Gbps | 426Mpps/ 600Mpps | 64K | 24K | 8 (Combo) | 24 SFP 8 SFP+ | 4 1/10G SFP+ port 2 40/100G QSFP28 port | NA | √ | 1 RU |
| RG-CS85-48GT4XS-D | 880Gbps | 406Mpps/ 600Mpps | 64K | 24K | 48 | 4 SFP+ | 4 1/10G SFP+ port 2 40/100G QSFP28 port | NA | √ | 1 RU |
| RG-CS85-48SFP4XS-D | 880Gbps | 406Mpps/ 600Mpps | 64K | 24K | NA | 48SFP 4 SFP+ | 4 1/10G SFP+ port 2 40/100G QSFP28 port | NA | √ | 1 RU |
| RG-CS85-48GT4XS-HPD | 880Gbps | 406Mpps/ 600Mpps | 64K | 24K | 48 | 4 SFP+ | 4 1/10G SFP+ port 2 40/100G QSFP28 port | 1440W | √ | 1 RU |

# Access Switch

## RG-CS83-PD SERIES

### OVERVIEW

The RG-CS83-PD series are next-generation gigabit Ethernet switches launched by Ruijie according to its design philosophy of security, high efficiency, energy saving, and independent innovation. This series can provide full gigabit access and flexibly extensible 10G uplink data exchanges. With new hardware architecture and Ruijie's latest RGOS12.X modular OS, the RG-CS83-PD series are capable of providing more resource entries, faster hardware processing, and a better user experience.

### KEY FEATURES

- PoE+ supported, power up a variety of terminal devices
- VSU technology, flexible networking, and high reliability
- Network security policies and real-time monitoring, delivering enhanced network robustness
- Ruijie Cloud and diverse management modes make your business easy

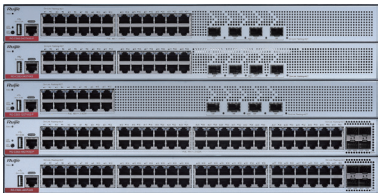| Model | Performance | | | | Downlink | Uplink | | Max. PoE | VSU | Rack Height |
|---|---|---|---|---|---|---|---|---|---|---|
| | Switching Capacity (Gbps) | Forwarding rate | Mac Table Size | ARP Table Size | GE (Base-T) | SFP | Card type | | | |
| RG-CS83-24GT4XS-PD | 336Gbps | 96Mpps | 32K | 4K | 24 | 4 SFP+ | 720W | NA | ✓ | 1 RU |
| RG-CS83-48GT4XS-PD | 432Gbps | 132Mppss | 32K | 4K | 48 | 4 SFP+ | 1440W | NA | ✓ | 1 RU |

## CS83 SERIES

### OVERVIEW

The RG-CS83 series switches are next-generation 1000M Ethernet switches launched by Ruijie Networks, featuring security, high efficiency, energy saving, and innovation. They provide full 1000M access and 10GE uplink data exchange with flexible scaling. With the new hardware architecture and Ruijie RGOS12.X modular operating system, the switch provides more resource entries, faster hardware processing performance, and better operation experience.

### KEY FEATURES

- Multiple port types — 1000M electrical ports and uplink 10GE ports, PoE/PoE+ power supply, faster speed, and experience enhancement
- VSU, delivering flexible networking
- Diverse Layer 3 protocols: OSPF, RIP, and multicast
- Depth of 220 mm (8.66 in.) and compact design, which can be easily installed in a small cabinet
- Resistance to harsh environments and excellent anti-corrosion performance
- 10 kV surge protection on an interface, 8 kV surge protection for PoE power, 6 kV surge protection for non-PoE power, higher performance, and greater anti-interference capability
- Intelligent variable-speed fans, advanced heat

| Model | Performance | | | | Downlink | | Max. PoE | VSU | Rack Height |
|---|---|---|---|---|---|---|---|---|---|
| | Switching Capacity (Gbps) | Forwarding rate | Mac Table Size | ARP Table Size | GE (Base-T) | SFP | | | |
| RG-CS83-12GT4XS-P | 104Gbps | 78Mpps | 16K | 4K | 12 | 4 SFP+ | 405W | ✓ | 1 RU |
| RG-CS83-24GT4XS | 128Gbps | 96Mpps | 16K | 4K | 24 | 4 SFP+ | NA | ✓ | 1 RU |
| RG-CS83-48GT4XS | 176Gbps | 132Mpps | 16K | 4K | 48 | 4 SFP+ | NA | ✓ | 1 RU |
| RG-CS83-24GT4XS-P | 128Gbps | 96Mpps | 16K | 4K | 24 | 4 SFP+ | 405W | ✓ | 1 RU |
| RG-CS83-48GT4XS-P | 176Gbps | 132Mpps | 16K | 4K | 48 | 4 SFP+ | 460W | ✓ | 1 RU |
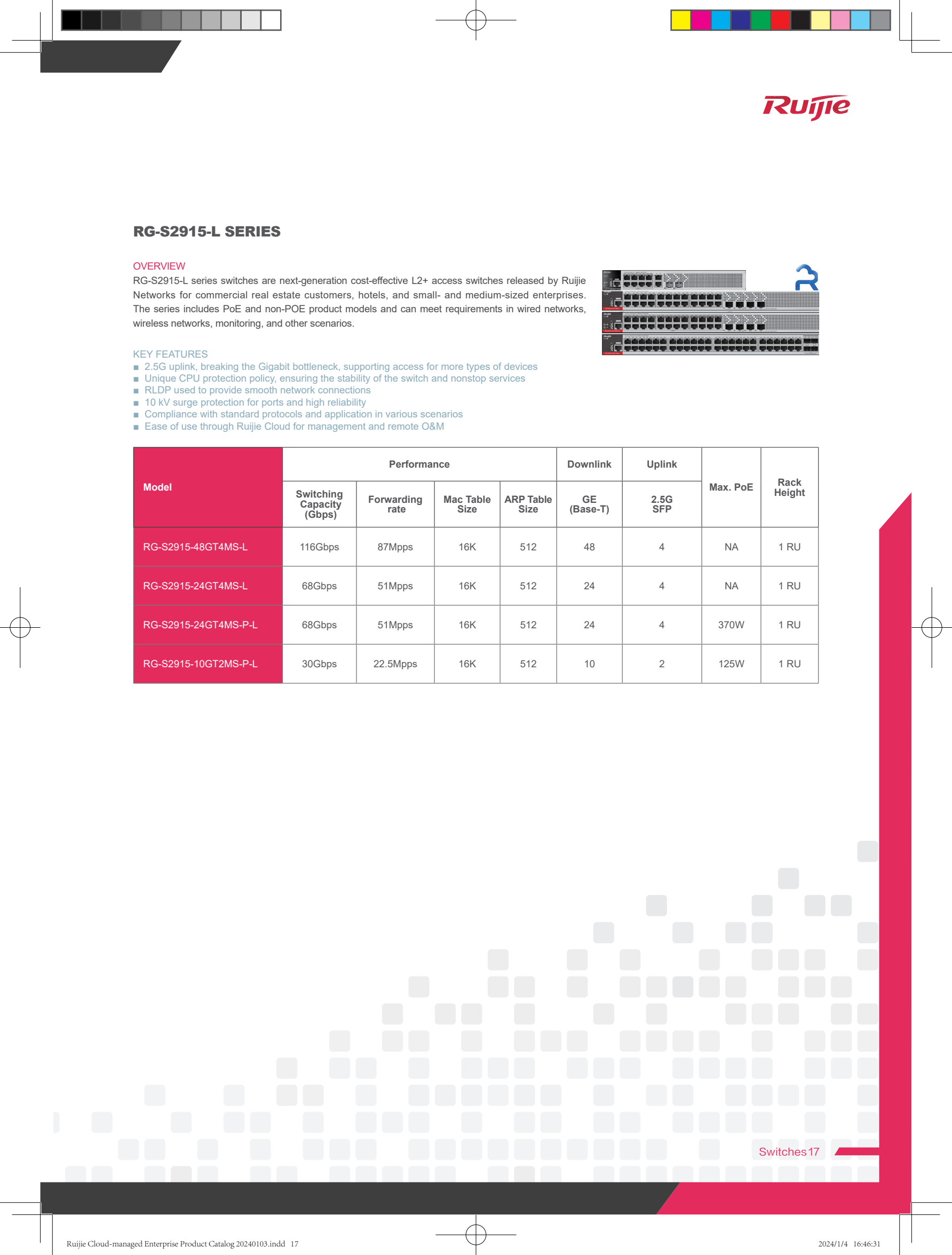
# RG-S2915-L SERIES

## OVERVIEW

RG-S2915-L series switches are next-generation cost-effective L2+ access switches released by Ruijie Networks for commercial real estate customers, hotels, and small- and medium-sized enterprises. The series includes PoE and non-POE product models and can meet requirements in wired networks, wireless networks, monitoring, and other scenarios.

## KEY FEATURES

- 2.5G uplink, breaking the Gigabit bottleneck, supporting access for more types of devices
- Unique CPU protection policy, ensuring the stability of the switch and nonstop services
- RLDP used to provide smooth network connections
- 10 kV surge protection for ports and high reliability
- Compliance with standard protocols and application in various scenarios
- Ease of use through Ruijie Cloud for management and remote O&M

| Model | Performance | | | | Downlink | Uplink | Max. PoE | Rack Height |
|---|---|---|---|---|---|---|---|---|
| | Switching Capacity (Gbps) | Forwarding rate | Mac Table Size | ARP Table Size | GE (Base-T) | 2.5G SFP | | |
| RG-S2915-48GT4MS-L | 116Gbps | 87Mpps | 16K | 512 | 48 | 4 | NA | 1 RU |
| RG-S2915-24GT4MS-L | 68Gbps | 51Mpps | 16K | 512 | 24 | 4 | NA | 1 RU |
| RG-S2915-24GT4MS-P-L | 68Gbps | 51Mpps | 16K | 512 | 24 | 4 | 370W | 1 RU |
| RG-S2915-10GT2MS-P-L | 30Gbps | 22.5Mpps | 16K | 512 | 10 | 2 | 125W | 1 RU |

# Ruijie Wireless
## Vision of Ruijie Wireless

In the wave of the world's digital economy, wireless networks have natural advantages in terms of network construction costs and mobile access. In the future, wireless networks will still be the focus of network construction for various organizations, and will become a "must" to improve business quality and efficiency.

Since its inception, the wireless product line of Ruijie Networks has been adhering to the concept of "scenario innovation", gaining insight into the user's business and usage environment, designing tailor-made solutions for users, and providing a high-quality wireless experience.

In order to help customers in various industries realize the efficiency revolution, today's Ruijie Wireless continues to innovate in the data access layer, business optimization layer, and network application layer. Through ubiquitous, efficient, and stable connections, it builds highly secure and highly reliable, simplified operation and maintenance, and a good experience wireless network continues to improve the efficiency and empowerment of digital and intelligent transformation in various industries.

## Product Family of Ruijie Cloud-managed Enterprise Wireless Product

| | |
|---|---|
| **Indoor AP Series** | RG-AP880-L AX7800 New Flagship Wi-Fi 6E    RG-AP840-L AX5400 High-Performance Indoor AP    RG-AP820-L(V3) AX3000 Wi-Fi 6    RG-AP820-L(V2) AX2400 Wi-Fi 6    RG-AP810-L AX1800 Wi-Fi 6    RG-AP720-L 11ac Wave2 |
| **Outdoor AP Series** | RG-AP680P-L Omni-directional Designed for Beach    RG-AP680-L Omni-directional Designed for Beach    RG-AP680(CD) Directional Designed for Beach |
| **Wall AP Series** | RG-AP180P-L Available for all countries    RG-AP180 Thin into the Wall |
| **Wireless Controller Series** | RG-WS6512-L 1152 Regular AP Management    RG-WS6008 224 Regular AP Management |
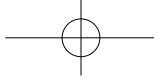
# KEY TECHNOLOGIES

## User Security - UPSK

Secure and simple access with advanced UPSK (User-based PSK) technology. Each user can have their own group of client devices (including IoT devices) communicating efficiently, such as file transferring and screencasting, while at the same time being isolated from other groups of other users for the best privacy protection. UPSK is implemented through dynamic segmentation of the network into micro-groups for each user, and requires only the access controller, thus improving customer TCO by eliminating the need for complicated NAC systems.

## Better User Experience - AirReorder

Ruijie's "AirReorder" scheduling technology introduces a refined time slice mechanism for high-density and mixed client protocol cases. Boosting more than 20% performance compared to the traditional QoS scheduling, and fully compatible with existing client devices, such as Wi-Fi 5 and IoT devices. AirReorder is a smart resource allocation algorithm based on the usage tracking of each client and air interface analysis of the environment.
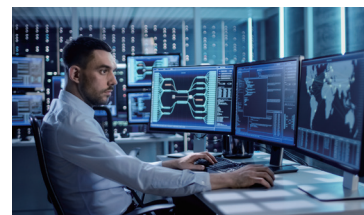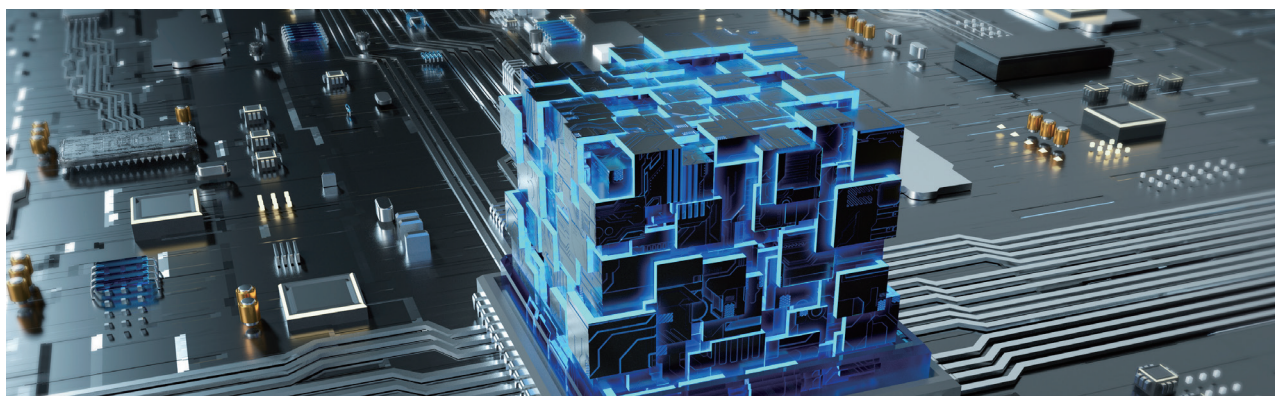
## High Reliability - VAC

VAC (Virtual Access Controller) Cluster provides high availability and performance expansion at the same time, for both on-premises and hybrid managed networks. Up to 8 access controllers can be stacked to have the active backup and 8-fold management capability for the network. And only traditional cabling is needed, such as CAT6 and optical fiber.

## Easy Maintenance - Ruijie Cloud

SON (Self-Organized Network) technology provides fast deployment of large numbers of network devices. By scanning any one of the AP devices in Cloud-managed mode, the entire connected network will be registered on the cloud. The network O&M (Operation and Maintenance) can be done remotely on the cloud, including remote monitoring, remote troubleshooting, network alarm notification, one-click wireless optimization, and wireless roaming optimization, without the need for an access controller.

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# Indoor Series

## RG-AP880-L

New Flagship Wi-Fi 6E AP

8 Spatial Streams

Wireless Throughput 7.8Gbps

5Gbps Combo Ports
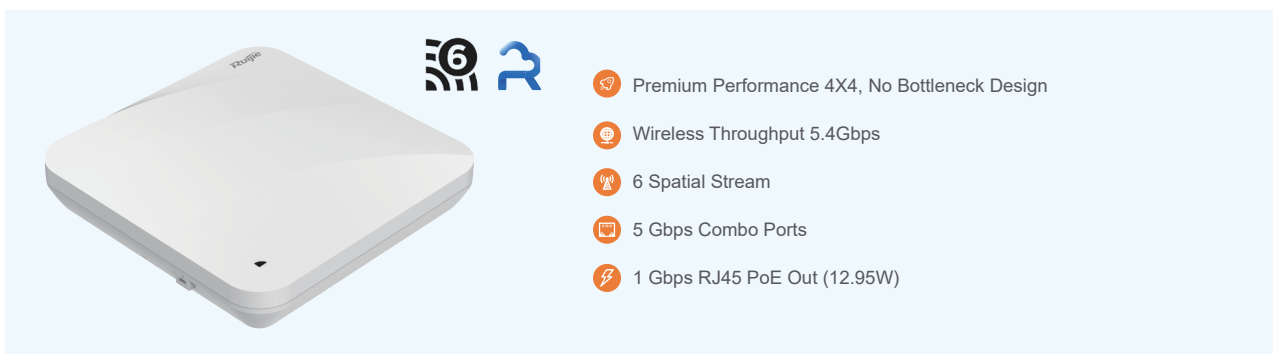
6GHz Supported, Triple Radio

1Gbps  RJ45 PoE Out (12.95W)

RG-AP880-L is an IEEE 802.11ax-compliant Tri-radio wireless access point (AP) released for indoor high-density scenarios in the higher education, government, general education, finance, and business sectors.

- Tri-radio design with a hardware-independent and maximum access rate of 7.775 Gbps
- Wi-Fi 6E technology supported
- Multiple service ports, one Ethernet electrical port with a maximum wired access wired rate of 5 Gbps,  another with 1 Gbps, and one 5 Gbps SFP port
- Local power supply and power over Ethernet (PoE)
- STA data forwarding, security, access control, and IoT application extension with Ruijie's access controllers (ACs) and Ruijie Cloud
- 3-Year hardware warranty

## RG-AP840-L

Premium Performance 4X4, No Bottleneck Design

Wireless Throughput 5.4Gbps

6 Spatial Stream

5 Gbps Combo Ports

1 Gbps RJ45 PoE Out (12.95W)

The RG-AP840-L is an 802.11ax-compliant dual-radio wireless access point (AP) for hotels, offices, schools, factories, government, finance, business, and other indoor scenarios.

- Dual-band design (2.4GHz + 5 GHz), six spatial streams, and up to 5.375 Gbps peak data rate
- 6 Gbps wired data rate to achieve high-speed wireless data backhaul, and access through optical and Ethernet cables for flexible networking
- OFDMA and MU-MIMO, optimizing multi-user access experience
- IEEE 802.11k/v/r support, roaming stickiness optimization, and remote association for a better user experience
- WPA3, Enhanced open security, 802.1X, PPSK, and other encryption authentication to enhance data security
- Local and cloud management modes, and intelligent wireless network optimization, reducing TCO and maximizing ROI
- Rich IoT features: PoE output, Bluetooth 5.1, ZigBee*, and wireless locating
- 3-Year hardware warranty

*ZigBee is supported by the hardware only.
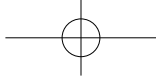
## RG-AP820-L(V3)



- ⊘ High-Performance Wi-Fi 6 AP
- ⊕ Wireless Throughput 3.0Gbps
- ✛ 4 Spatial Stream
- ▤ 2.5Gbps SFP Port
- ⚡ 1Gbps RJ45 Port

RG-AP820-L(V3) is a cost-effective entry-level wireless access point with Wi-Fi 6 dual-radio design. It not only has simplicity and flexibility for small and medium-sized enterprises, but the features, functionality, and performance quality to scale up to large-enterprise network deployments.

- ■ Maximum of 2.975Gbps wireless throughput when 160MHz bandwidth in 5G radio mode adopted (HE160)
- ■ Wi-Fi 6 features and guarantees minimal signal interference
- ■ Maximum ROI based on free cloud management
- ■ Hybrid management (cloud/ controller/ standalone)
- ■ Automated radio optimization by artificial intelligence
- ■ 3-Year hardware warranty

## RG-AP820-L(V2)



- ⊘ High-performance Entry Wi-Fi 6 AP
- ⊕ Wireless Throughput 2.4Gbps
- ✛ 4 Spatial Stream
- ⚡ 1Gbps RJ45 Port

RG-AP820-L(V2) is the Ruijie's highest price-performance entry Wi-Fi 6 enterprise indoor access point. It's the ideal choice for hotel, office, retail, and school scenarios.

- ■ Maximum of 2.4Gbps wireless throughput when 160MHz bandwidth in 5G radio mode adopted (HE160)
- ■ Wi-Fi 6 features and guarantees minimal signal interference
- ■ Maximum ROI based on free cloud management
- ■ Hybrid Management (cloud/ controller/ standalone)
- ■ Automated Radio Optimization by artificial intelligence
- ■ 3-Year hardware warranty

Wireless 21

## RG-AP810-L



- Entry-Level Wi-Fi 6 AP
- Wireless Throughput 1.8Gbps
- 4 Spatial Stream
- 1Gbps RJ45
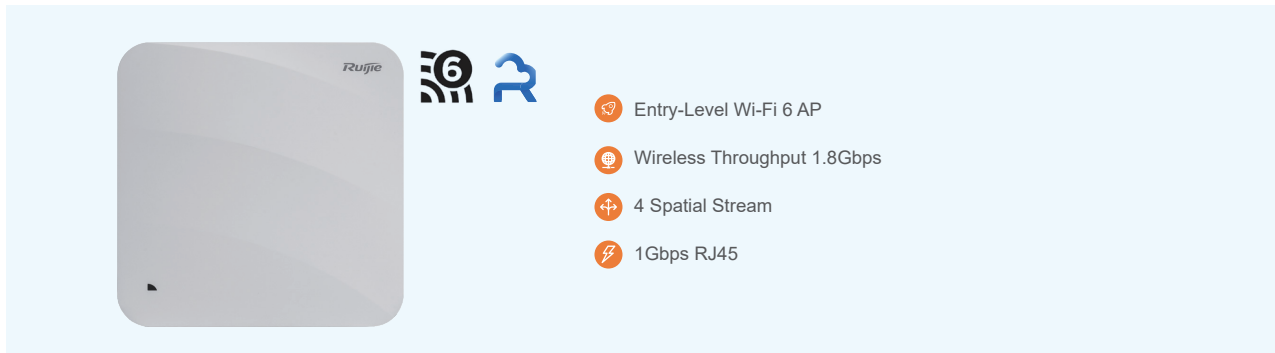
RG-AP810-L is a cost-effective entry-level wireless access point with Wi-Fi 6 dual-radio design. It not only has simplicity and flexibility for small and medium-sized enterprises, but the features, functionality, and performance quality to scale up to large-enterprise network deployments.

- Maximum of 1.775Gbps wireless throughput when 80MHz bandwidth in 5G radio mode adopted (HE80)
- Wi-Fi 6 features and guarantees minimal signal interference
- Maximum ROI based on free cloud management
- Hybrid Management (cloud/ controller/ standalone)
- Automated Radio Optimization by artificial intelligence
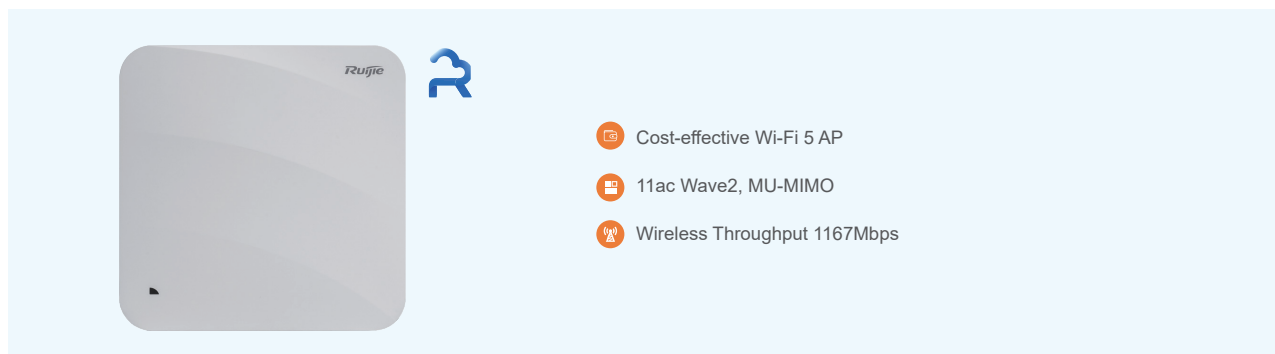- 3-Year hardware warranty

## RG-AP720-L



- Cost-effective Wi-Fi 5 AP
- 11ac Wave2, MU-MIMO
- Wireless Throughput 1167Mbps

The RG-AP720-L is a dual-radio and 802.11ac Wave 2 access point (AP) designed for indoor high-density scenarios covering hotels, offices, schools, factories, government, finance, and business.

- Each radio supports two spatial streams and four in total
- A combined data rate of 1.167Gbps, with up to 300 Mbps in the 2.4 GHz band and 867 Mbps in the 5 GHz band
- Environment-friendly Design and Lower Power Consumption
- Wireless network security, RF management, mobile access, QoS guarantee, and seamless roaming
- STA data forwarding, security features, and access control working with Ruijie access controllers (ACs)
- 3 Different management modes for selection, perfect for your ever-changing business needs
- 3-Year hardware warranty

# Outdoor Series

## RG-AP680P-L

- Outdoor AP Designed for Beach (Omni-directional)
- Wireless Throughput 6.0Gbps
- 8 Spatial Streams
- 10Gbps SFP+ Port & 5Gbps RJ45 Por
- 1Gbps PoE Out RJ45 Port
- IP68, Salt Spray Corrosion Proof

The RG-AP680P-L is an omnidirectional Wi-Fi 6 dual-radio outdoor access point (AP) for outdoor scenarios such as beaches, hotels, education, small and medium-sized enterprises, energy, shopping malls, government, and healthcare facilities.

- Support IP68 rating protection and salt spray corrosion proof, designed for beach
- Industrial-grade product design, operating temperature: –40°C to +65°C
- High-power omnidirectional antennas with 360° coverage to every corner
- Upgraded to Wi-Fi 6, a combined data rate of up to 5951 Mbps with hardware-independent dual-radio design
- Wireless network security, radio control, mobile access, QoS, seamless roaming, and expansion of the Internet of Things (IoT) module
- The AP can implement STA data forwarding, security features, access control, and IoT application extension with Ruijie access controllers (ACs) and Ruijie Cloud
- Local power supply and Power over Ethernet (PoE) supported
- Built-in smart antennas, mesh networks, and point-to-multipoint (P2MP) network bridges supported

## RG-AP680-L

- Outdoor AP Designed for Beach (Omni-directional)
- Wireless Throughput 3.0Gbps
- 4 Spatial Streams
- 1Gbps  SFP Port
- 1Gbps RJ45 Port
- IP68, Salt Spray Corrosion Proof

The RG-AP680-L is an omnidirectional Wi-Fi 6 dual-radio outdoor access point (AP) for outdoor scenarios such as beaches, hotels, education, small and medium-sized enterprises, energy, shopping malls, government, and healthcare facilities.

- Support IP68 rating protection and alt spray corrosion proof, designed for beach
- Industrial-grade product design, operating temperature: –40°C to +65°C
- High-power omnidirectional antennas with 360° coverage to every corner
- Upgraded to Wi-Fi 6, a combined data rate of up to 2975 Mbps with hardware-independent dual-radio design
- Wireless network security, radio control, mobile access, QoS, seamless roaming, and expansion of the Internet of Things (IoT) module
- The AP can implement STA data forwarding, security features, access control, and IoT application extension with Ruijie access controllers (ACs) and Ruijie Cloud
- Local power supply and Power over Ethernet (PoE) supported
- Built-in smart antennas, mesh networks, and point-to-multipoint (P2MP) network bridges supported

# RG-AP680(CD)



- Outdoor AP Designed for Beach (Directional)
- Wireless Throughput 1.8Gbps
- 4 Spatial Streams
- 1Gbps  SFP Port
- 1Gbps RJ45 Port
- IP68, Salt Spray Corrosion Proof

The RG-AP680(CD) is a universal Wi-Fi 6 dual-radio outdoor access point (AP) for outdoor scenarios such as beaches, hotels, education, wireless cities, energy, and business malls.

- Support IP68 rating protection and alt spray corrosion proof, designed for beach
- Industrial-grade product design, operating temperature: –40°C to +65°C
- The access rate of up to 2.4 Gbps with hardware-independent dual-radio design, up to 1.775 Gbps access rate works in 2.4G+5G mode
- Wireless network security, radio control, mobile access, QoS, seamless roaming, and expansion of the Internet of Things (IoT) module considered for design
- STA data forwarding, security features, access control, and IoT application extension with Ruijie access controllers (ACs) and Ruijie Cloud
- Local power supply and Power over Ethernet (PoE) supported
- Built-in directional smart antennas, mesh networks, and point-to-multipoint (P2MP) network bridges supported
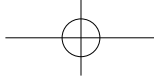
## Wall Plate

### RG-AP180P-L

NEW New Wall AP for All Countries

Throughput 3.0Gbps

4 Spatial Streams

2.5Gbps Uplink Port

4 x 1Gbps Downlink Ports

LAN1 PoE Out for IP Phone

Flat Design, with Global Mounts

RG-AP180P-L is a dual-radio 802.11ax-compliant Wi-Fi 6 wireless access point (AP) provided for hotels, offices, schools, factories, government, finance, business, and other indoor high-density scenarios. It is especially suitable for small-sized office environments like hotels, apartments, healthcare facilities, and educational settings.
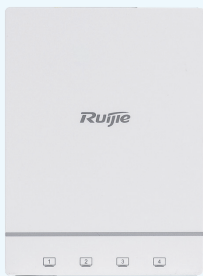
- Suitable for various junction boxes(86mm x 86mm, EU, US), even flat wall installation
- Support PoE out for an IP phone, allowing guests to make emergency calls in case of a power outage
- 802.11ax and supports the 2.4 GHz and 5 GHz frequency bands adopted, up to 2.975 Gbps access rate
- Wireless network security, radio control, mobile access, QoS, seamless roaming, and expansion of the Internet of Things (IoT) module expansion considered for design
- Wireless user access management, data forwarding, secure access control, and other network deployment work working with Ruijie access controllers (ACs)
- Powered locally or over Ethernet based on the power supply conditions of the customer on site
- DC 48V local power supply or 802.3af/at PoE in

### RG-AP180

Wireless Throughput 1.8Gbps

4 Spatial Streams

1Gbps Uplink

4 x 1Gbps Downlink Ports

86-Type/US/EU Standard Junction Box are Adapted

RG-AP180 is a dual-radio 802.11ax-compliant Wi-Fi 6 wireless access point (AP) provided for hotels, offices, schools, factories, government, finance, business, and other indoor high-density scenarios. It is especially suitable for small-sized office environments like hotels, apartments, healthcare facilities, and educational settings.

- 802.11ax and supports the 2.4 GHz and 5 GHz frequency bands adopted, up to 2.975 Gbps access rate
- Wireless network security, radio control, mobile access, QoS, seamless roaming, and expansion of the Internet of Things (IoT) module expansion considered for design
- Wireless user access management, data forwarding, secure access control, and other network deployment work working with Ruijie access controllers (ACs)
- 86-Type junction box is adapted, and US/EU standard junction boxes are also compatible with mount-kit accessories(sold separately)
- DC 48V local power supply or 802.3af PoE in

# Wireless Controller

## RG-WS6512-L



- High-Performance Large Campus Wireless Controller
- Max. 1152 Regular AP Management
- Advanced WIPS Security Protection
- High Availability Virtual AC Technology
- UPSK/PPSK/802.1X Enterprise Authentication for Staff
- Web Portal Authentication for Guest

The RG-WS6512 high-performance wireless access controller (AC) is developed to support next-generation high-speed wireless networks. It can be deployed on a Layer 2 or Layer 3 network without any architecture or hardware changes, delivering seamless and secure control over wireless networks.

- Up to 128 wireless access points (APs) by default
- Layered management and control for large networks
- Switching between centralized and local forwarding
- Load balancing between APs, dynamic bandwidth allocation for STAs, 5G band-select, smooth network connection

## RG-WS6008



- Next-generation Enterprise-class Wireless Controller
- Max. 224 Regular AP Management
- Advanced WIPS Security Protection
- High Availability Virtual AC Technology
- UPSK/PPSK/802.1X Enterprise Authentication for Staff
- Web Portal Authentication for Guest

The Ruijie WS6008 wireless access controller (AC) is the next-generation enterprise-class wireless network controller that delivers a secure, robust, highly scalable wireless solution at an unbeatable total cost of ownership (TCO). It can be deployed on either a Layer 2 or Layer 3 network without any architecture or hardware changes, delivering seamless and secure control over wireless networks.

- Manage up to 32 wireless access points (APs) by default
- Manage a maximum of 224 universal APs or 448 wall plate wireless access points with a license for capacity expansion
- Simplify wireless networks by centralized and visualized management and control

# Ruijie Firewall

## RG-WALL 1600-Z3200-S

### OVERVIEW

RG-WALL 1600-Z3200-S adopts a high-performance network forwarding service platform based on DPDK, supports easy&fast intelligent setup, and provides active asset discovery, intelligent policy recommendation, one-click fault analysis, and business health diagnosis functions to simplify product setup and maintenance. Rich security functions, able to support intrusion prevention, anti-virus, port scanning, traffic learning, application control, DoS/DDoS protection, and other functions. Support centralized Ruijie Cloud management, data synchronization cloud analysis and reporting, remote monitoring and maintenance, batch configuration, and automated inspection. The RG-WALL 1600-Z3200-S has performance expansion capabilities that can be extended by purchasing performance licenses. It is suitable for deployment on the user's Internet egress.
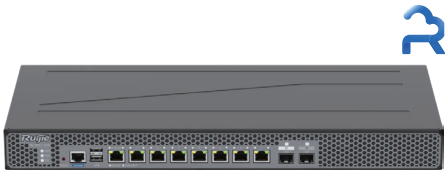
### KEY FEATURES

- Easy deployment and simple O&M, fully unleashing security defense value
- Port scan + traffic learning, intelligent policy recommendation
- Policy execution after simulation, policy optimization anytime
- One-click fault located in the intelligent diagnostic center
- Cloud management, batch upgrade firmware remotely

| Product Name | Type | Description |
|---|---|---|
| RG-WALL 1600-Z3200-S | Hardware | The RG-WALL 1600-Z3200-S cloud management firewall provides 8 x 1G Ethernet ports, 1 x 1G SFP port, 1 x 10G SFP+ port, and a single power supply (for factory delivery). The firewall is 1 U high and supports the expansion of 1 TB enterprise-class hard disk. |
| RG-WALL 1600-Z3200-S-1G-LIC | License | Performance expansion license for the RG-WALL 1600-Z3200-S cloud management firewall. A maximum of 1 license can be used for Z3200-S. (Expand performance to premium) |
| RG-WALL 1600-Z3200-S-LIS-M-1Y | License | Intrusion prevention (IPS), antivirus (AV), app identification (APP), URL signature library four-in-one license for the RG-WALL 1600-Z3200-S cloud management firewall: One license provides one-year upgrade services for IPS, AV, APP, and URL signature libraries. |
| RG-NSEC-HDD-1T | Hardware | 1 TB enterprise-class hard disk can be added to meet hard disk configuration requirements. |

## HIGHLIGHT VALUE

**Port Scan + Traffic Learning, Intelligent Policy Recommendation, Simple Deployment**

During deployment, use Port Scan to automatically identify the IP address and port number of a service system, and then enable Traffic Learning to automatically detect the service access relationship on the live network. You can also generate access control policies based on ports with one click, and complete firewall onboarding without professional knowledge.
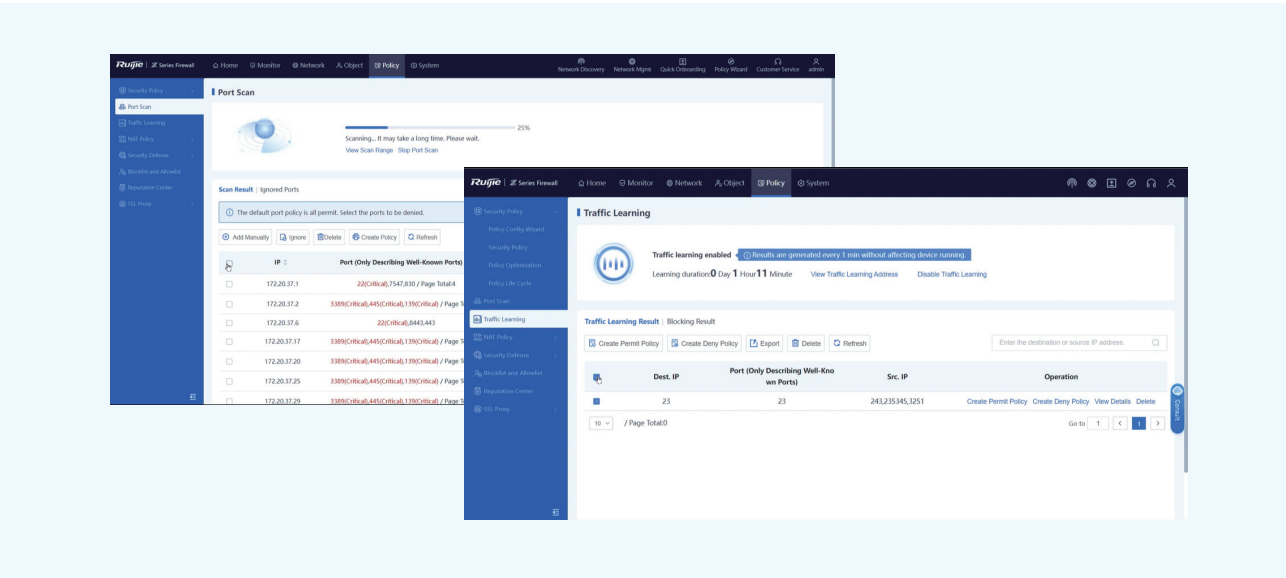


**Policy Execution After Simulation, Policy Optimization Anytime**

Verify policies in Policy Simulation Space without affecting actual services. Apply policies to the live network with one click after verification.
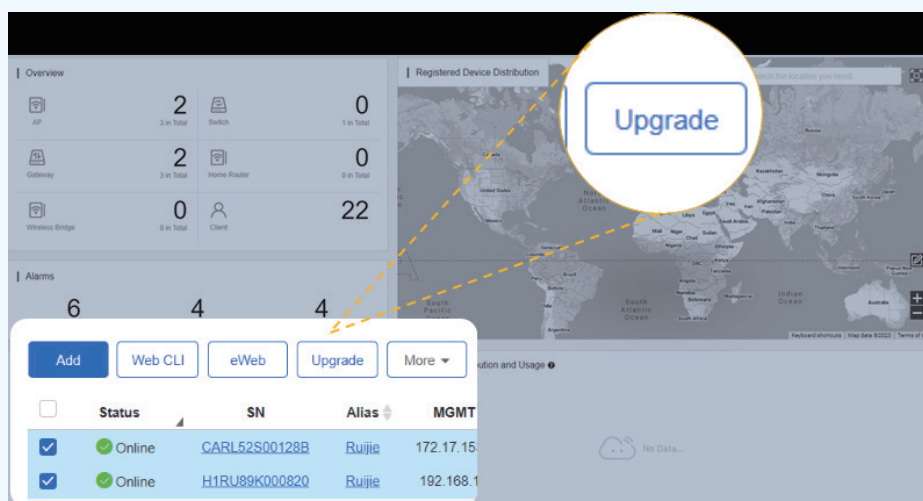
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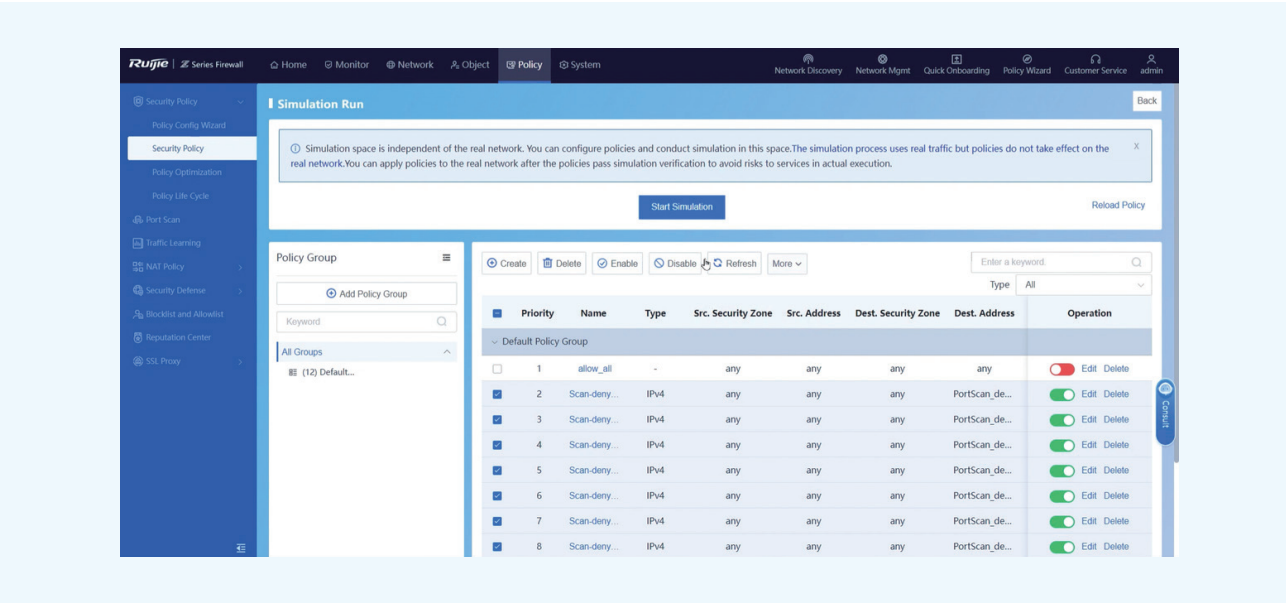
**One-Click Fault Locating in the Intelligent Diagnostic Center**

The intelligent diagnostic center supports automated analysis of network faults and provides a one-stop troubleshooting wizard for O&M personnel to quickly locate and resolve faults
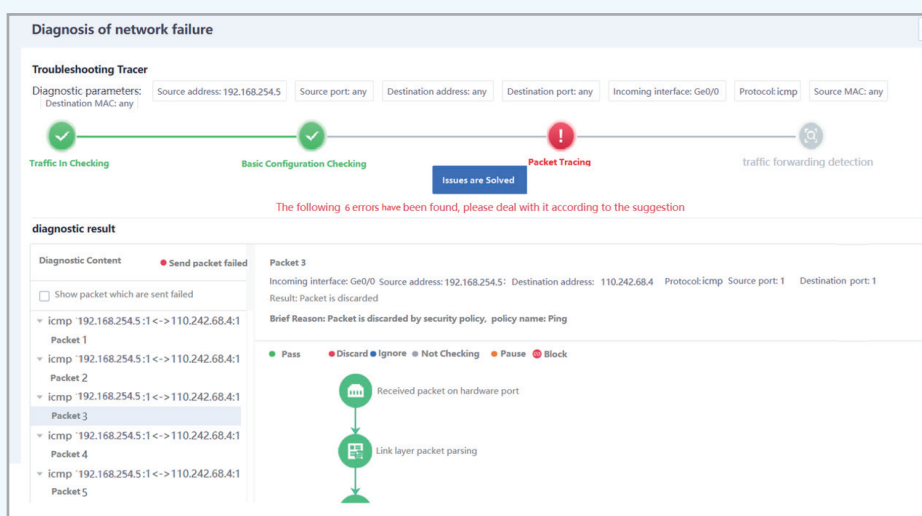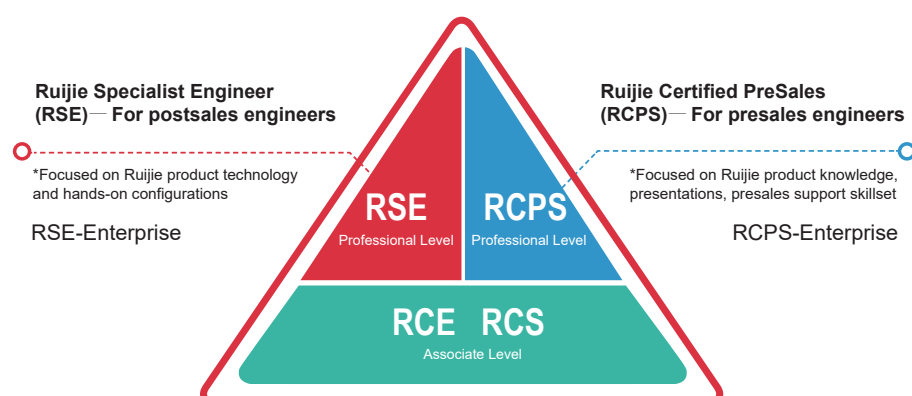


**Cloud management, batch upgrade firmware remotely**

# Training & Services

Ruijie has its own technical training and certification system. Those with Ruijie certification will have professional network knowledge, network skills and knowledge on specific technical fields and positions, which could bring their employers great value and benefits. Ruijie Certification system includes Ruijie Specialist Engineer (RSE), Ruijie Certified PreSales (RCPS), Ruijie Certified Engineer (RCE) and Ruijie Certified Sales (RCS).

## RUIJIE'S TRAINING SERVICES

**Ruijie Specialist Engineer (RSE)**— **For postsales engineers**

*Focused on Ruijie product technology and hands-on configurations

RSE-Enterprise

**Ruijie Certified PreSales (RCPS)**— **For presales engineers**

*Focused on Ruijie product knowledge, presentations, presales support skillset

RCPS-Enterprise

**RSE** Professional Level | **RCPS** Professional Level

**RCE RCS** Associate Level

## RSE

Ruijie Specialist Engineer (RSE), the professional level certificate for senior postsales engineers, is oriented at the implementation, management, and maintenance of small and medium-sized enterprises network, medium and large-scale campus networks on the following different tracks.

## RCPS

Ruijie Certified PreSales (RCPS), the professional level certificate for presales engineers, is oriented at planning and design the campus networks with various scales. It focuses on features of industry solutions, products and imporvement of presales skillset.

## RCE

Ruijie Certified Engineer for SME, the professional level certificate for pre-sales/post-sales engineers, is oriented at mastering SME product technologies, solution values and network design ability, as well as configuration of Ruijie SME products and solutions.

## RCS

Ruijie Certified Sales for SME, the professional level certificate for sales/product managers, is oriented at mastering the value of Ruijie branding, SME products and industry solutions.

## TECHNICAL SERVICE AND WARRANTY



**Value Added TAC Support**

- Complimentary professional TAC Support for ALL Ruijie partners and customers
- Staffed by Ruijie certified experts, Ruijie TAC provides technical support for products, configuration and troubleshooting and also incident management
- TAC supports 5*8 on case portal, online live chat or email, 7*24 on intelligent robot

**Standard Limited Warranty**

- 3-Year Warranty Free of Charge (FOC) for ALL hardware & Software
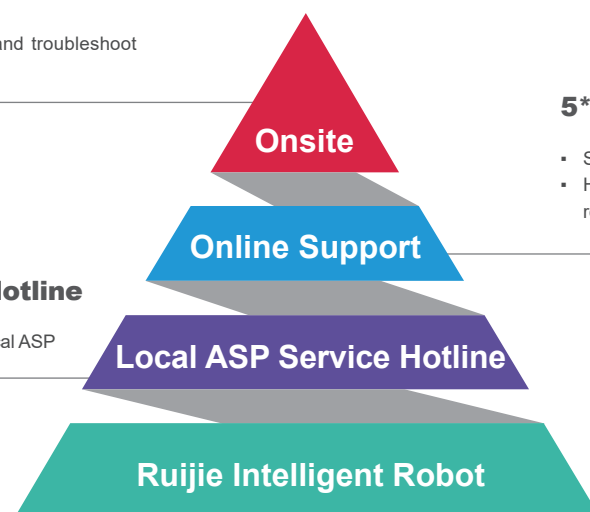- Please contact Ruijie's local representative or Ruijie's Website for updated service related inquiry

## SERVICE LEVEL AGREEMENT

**Onsite Support**

- Onsite presence to diagnose and troubleshoot Ruijie's products and solutions

**5*8 Live Chat & Case Portal**

- Standard product feature support
- Hardware or software solution problem resolution

**Local ASP Service Hotline**

- 5*8 hotline provided by Ruijie local ASP

**Ruijie Intelligent Robot**

- 7*24 millisecond response
- Most of the frequently asked questions covered



Onsite
Online Support
Local ASP Service Hotline
Ruijie Intelligent Robot

**Ruijie Networks Co., Ltd.**