

# RG-AP180-I

## Wi-Fi 6 Dual-Radio

### Advanced Wall Plate Access Point



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## | Product Pictures



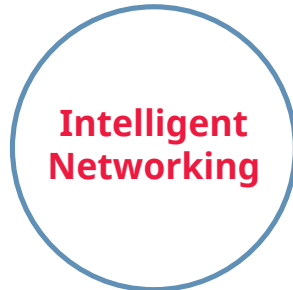
## | Product Overview

The RG-AP180-I is a Wi-Fi 6 wireless access point that delivers dual radios, high performance, and enterprise-grade encryption. Due to the hybrid cloud management mode and high-speed access design, it is suitable for flexible deployment in high-quality network scenarios, such as classroom, dormitory, and office scenarios in the education industry, office scenarios of small- and medium-scale enterprises, outpatient clinics and office scenarios in the medical industry, and hotel apartments.

# | Product Highlights



## Ultra-High Performance



## Intelligent Networking



## High Security

### Ultra-High Performance

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- Dual-band design (2.4 GHz + 5 GHz), four spatial streams, 1024-Quadrature Amplitude Modulation (QAM) high-speed access, and up to 2.976 Gbps peak data rate, realizing high-speed wireless access experience
- Orthogonal Frequency Division Multiple Access (OFDMA), Multi-User Multiple-Input Multiple-Output (MU-MIMO), and QoS transmission optimization technologies, improving the average user speed in high-density deployment and access scenarios
- RF power adjustment and intelligent channel allocation to solve the problems such as co-channel interference and adjacent channel interference, thereby improving network transmission efficiency and stability

### Intelligent Networking

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- Local and cloud management modes, and intelligent wireless network optimization, reducing TCO and maximizing ROI
- Installation in Chinese-standard 86-mm, American-standard, and European-standard junction boxes, and wall mounting, which is suitable for a wall, panel, or

other positions

- IEEE 802.11k/v/r support and roaming stickiness optimization, achieving seamless user roaming
- Rich IoT features: PoE output, Bluetooth 5.1, and wireless locating

### High Security

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- Encryption and authentication technologies including Wi-Fi Protected Access 3 (WPA3), enhanced open security, 802.1X, and Private Pre-shared Key (PPSK), enhancing data security
- Dynamic Frequency Selection (DFS), optimizing the use of available RF spectrum to prevent radar channel interference
- Cyclic Delay/Shift Diversity (CDD/CSD), Maximum Ratio Combining (MRC), Space-Time Block Coding (STBC), and Low-Density Parity Check (LDPC), improving the signal quality, signal receiving, and reliability and performance of data transmission
- Transmit beam-forming (TxBF) expands the signal coverage and enhances the reliability of specific devices, thereby improving the data rate
- Intelligent identification and monitoring, multicast-to-unicast conversion, and other features, enhancing network security and reliability

# Applicable Scenarios

## Higher Education

### Classroom and Lab

Deploying Wi-Fi in classrooms and labs enables students and teachers to access network resources with ease, thereby enhancing the quality of teaching and learning. Students can engage in online learning, access course materials, and collaborate with classmates, while teachers can access teaching resources and deliver multimedia lessons.



### Office

Deploying Wi-Fi in the office can help teachers quickly search for and access online educational resources, improving lesson preparation efficiency.



## Healthcare

### Outpatient Service

The Wi-Fi network provides a mobile office environment for medical staff. Medical staff can use mobile devices to view patient information in real time, which significantly improves treatment efficiency. Patients can access relevant

medical information through smart devices online, resulting in improved satisfaction.



### Remote Monitoring and Management of Medical Devices

With Wi-Fi deployment, remote monitoring and management of medical devices become possible. Wireless medical devices such as ECG monitors and blood pressure monitors can transmit patient data in real time, thereby improving information security. Additionally, these wireless medical devices can be easily maintained and upgraded, resulting in cost reductions.



## Hotel Apartments

### Chain Hotels

By deploying a Wi-Fi network, travelers can enjoy convenient, high-speed Internet access to ensure a fulfilling stay.



# Product Features

## Multi-scenario Adaptability

The RG-AP180-I, a dual-band wall plate wireless access point, is ideal for a wide range of applications, including higher education, government, general education, finance, business, and hotel sectors, meeting diverse service needs.

## High-speed Access and Compatibility

The RG-AP180-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-AP180-I stands out with its exceptional wireless network security, RF control, mobile access, QoS guarantee, and seamless roaming. With Ruijie's wireless access controller (AC), it enables wireless user data forwarding, security, and access control to cope with diverse service needs.

## Flexible Deployment and Power Supply

The RG-AP180-I supports both local power supply and Power over Ethernet (PoE), providing you with the flexibility to choose the power supply mode. It can be installed in the Chinese-standard 86-mm, American-standard, or European-standard junction box, and also against a wall. This simplifies deployment. In addition, the RG-AP180-I is particularly suitable for classrooms, dormitories, and offices in the education industry, small- and medium-sized enterprise offices, outpatient clinics and office scenarios in the medical industry, hotel apartments, and other scenarios.

# Solution Scalability Capabilities

Ruijie WIS Cloud Management Network Solution (WIS for short) provides full-lifecycle cloud management network services covering network procurement, planning, deployment, acceptance, and O&M. When the AP connects to WIS, it can meet various needs in multiple scenarios including planning, deployment, acceptance, and operation through cloud management, cloud O&M, cloud authentication, and other value-added services provided by WIS.

Device Name	MAC Address	Device Model	Management IP	AP Group Address	Number of Online Users	Last Online Time	Remarks	Operation
AP180-I-001	000000000001	RG-AP180-I	192.168.1.101	192.168.1.101	0	2023-08-28 10:20:00		Disable
AP180-I-002	000000000002	RG-AP180-I	192.168.1.102	192.168.1.102	0	2023-08-28 11:45:00		Disable
AP180-I-003	000000000003	RG-AP180-I	192.168.1.103	192.168.1.103	0	2023-08-28 13:30:00		Disable
AP180-I-004	000000000004	RG-AP180-I	192.168.1.104	192.168.1.104	0	2023-08-28 15:00:00		Disable
AP180-I-005	000000000005	RG-AP180-I	192.168.1.105	192.168.1.105	0	2023-08-28 16:30:00		Disable

## Network-wide Cloud Management

WIS supports integrated management and control of various types of devices including APs, ACs, switches, gateways, and routers. It supports remote O&M management operations such as adding or batch importing of multi-branch network devices, online status monitoring, configuration delivery, upgrade, restart, configuration backup, and restoration. It supports network-wide topology auto-discovery and topology status monitoring.

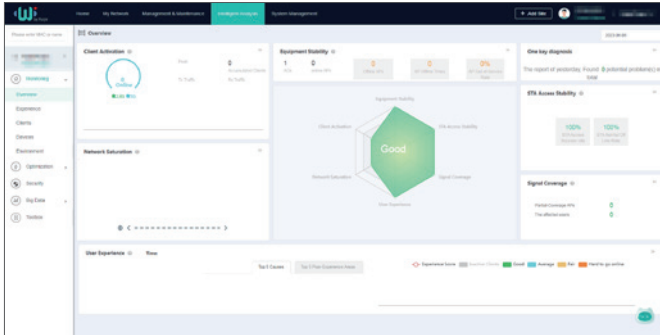
## Wireless Network Visualization

The overview function module of WIS provides a comprehensive view of the network running status from the perspective of overview, experience, users, devices, and environment. The network running information includes the following items:

- Network basic information: device stability, device health, user stability, network signal coverage, and network association.
- User usage: user activity (network dependency), and user online experience and analysis.
- Network saturation: network capacity usage and channel usage.

## Intelligent Network Diagnosis

With WIS, wireless network diagnosis and health index assessment can be completed in just one click, providing test results for each item. The health index provided by WIS enables you to rapidly assess the state of your live network. WIS can locate faulty areas, APs, and STAs, and provides potential risks and corresponding optimization suggestions.



# Product Specifications

## Hardware Specifications

Hardware Specifications	RG-AP180-I
802.11n	<p>Four spatial streams</p> <ul style="list-style-type: none"> <li>• Radio 1 – 2.4 GHz: 2x2 MIMO, two spatial streams</li> <li>• Radio 2 – 5 GHz: 2x2 MIMO, two spatial streams</li> </ul> <p>Channels:</p> <ul style="list-style-type: none"> <li>• Radio 1 – 2.4 GHz: 20 MHz and 40 MHz</li> <li>• Radio 2 – 5 GHz: 20 MHz and 40 MHz</li> </ul> <p>Combined peak data rate: 600 Mbps</p> <ul style="list-style-type: none"> <li>• Radio 1 – 2.4 GHz: 6.5 Mbps to 300 Mbps (MCS0 to MCS15)</li> <li>• Radio 2 – 5 GHz: 6.5 Mbps to 300 Mbps (MCS0 to MCS15)</li> </ul> <p>Radio technologies: Orthogonal Frequency-Division Multiplexing (OFDM)</p> <p>Modulation types: BPSK, QPSK, 16-QAM, 64-QAM</p> <p>Packet aggregation:</p> <ul style="list-style-type: none"> <li>• Aggregate MAC Protocol Data Unit (A-MPDU)</li> <li>• Aggregate MAC Service Data Unit (A-MSDU)</li> </ul> <p>Dynamic Frequency Selection (DFS)</p> <p>Cyclic Delay/Shift Diversity (CDD/CSD)</p> <p>Maximum Ratio Combining (MRC)</p> <p>Space-Time Block Coding (STBC)</p> <p>Low-Density Parity Check (LDPC)</p> <p>Transmit beam-forming (TxBF)</p>

Hardware Specifications	RG-AP180-I
802.11ac	<p>Two spatial streams</p> <ul style="list-style-type: none"> <li>Radio 2 – 5 GHz: 2x2 MIMO, two spatial streams</li> </ul> <p>Channels:</p> <ul style="list-style-type: none"> <li>Radio 2 – 5 GHz: 20 MHz, 40 MHz, 80 MHz, and 160 MHz</li> </ul> <p>Combined peak data rate: 1.733 Gbps</p> <ul style="list-style-type: none"> <li>Radio 2 – 5 GHz: 6.5 Mbps to 1.733 Gbps (MCS0 to MCS9)</li> </ul> <p>Radio technologies: Orthogonal Frequency-Division Multiplexing (OFDM)</p> <p>Modulation types: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM</p> <p>Packet aggregation:</p> <ul style="list-style-type: none"> <li>Aggregate MAC Protocol Data Unit (A-MPDU)</li> <li>Aggregate MAC Service Data Unit (A-MSDU)</li> </ul> <p>Dynamic Frequency Selection (DFS)</p> <p>Cyclic Delay/Shift Diversity (CDD/CSD)</p> <p>Maximum Ratio Combining (MRC)</p> <p>Space-Time Block Coding (STBC)</p> <p>Low-Density Parity Check (LDPC)</p> <p>Transmit beam-forming (TxBF)</p>
802.11ax	<p>Four spatial streams</p> <ul style="list-style-type: none"> <li>Radio 1 – 2.4 GHz: 2x2 uplink/downlink MU-MIMO, two spatial streams</li> <li>Radio 2 – 5 GHz: 2x2 uplink/downlink MU-MIMO, two spatial streams</li> </ul> <p>Channels:</p> <ul style="list-style-type: none"> <li>Radio 1 – 2.4 GHz: 20 MHz and 40 MHz</li> <li>Radio 2 – 5 GHz: 20 MHz, 40 MHz, 80 MHz, and 160 MHz</li> </ul> <p>Combined peak data rate: 2.976 Gbps:</p> <ul style="list-style-type: none"> <li>Radio 1 – 2.4 GHz: 8.6 Mbps to 0.574 Gbps (MCS0 to MCS11)</li> <li>Radio 2 – 5 GHz: 8.6 Mbps to 2.402 Gbps (MCS0 to MCS11)</li> </ul> <p>Radio technologies: uplink/downlink Orthogonal Frequency-Division Multiple Access (OFDMA)</p> <p>Modulation types: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM</p> <p>Packet aggregation:</p> <ul style="list-style-type: none"> <li>Aggregate MAC Protocol Data Unit (A-MPDU)</li> <li>Aggregate MAC Service Data Unit (A-MSDU)</li> </ul> <p>Dynamic Frequency Selection (DFS)</p> <p>Cyclic Delay/Shift Diversity (CDD/CSD)</p> <p>Maximum Ratio Combining (MRC)</p> <p>Space-Time Block Coding (STBC)</p> <p>Low-Density Parity Check (LDPC)</p> <p>Transmit beam-forming (TxBF)</p> <p>WPA3</p>
Antenna	<p>Wi-Fi</p> <ul style="list-style-type: none"> <li>2.4 GHz: two built-in omnidirectional antennas, the max. antenna gain is 4.6 dBi.</li> <li>5 GHz: two built-in omnidirectional antennas, the max. antenna gain is 5.6 dBi.</li> </ul> <p>Bluetooth</p> <ul style="list-style-type: none"> <li>One onboard omnidirectional antenna, with the peak gain of 2.4 dBi</li> </ul>
Port	<p>Uplink: 1 x 100/1000/2500Base-T Ethernet port with auto-negotiation, in compliance with IEEE 802.3af/at (PoE/PoE +). When powered by 802.3af (PoE), LAN 1 port cannot supply power to external devices.</p> <p>Downlink: 4 x 10/100/1000Base-T Ethernet ports with auto-negotiation. LAN 1 port can source 48 V/10 W power to external devices.</p> <p>1 x micro USB console port</p> <p>1 x Bluetooth 5.1</p>

Hardware Specifications	RG-AP180-I
Status LED	<p>1 x multi-color system status LED</p> <ul style="list-style-type: none"> <li>• AP power-on status</li> <li>• Software initialization status and upgrade status</li> <li>• Uplink service interface status</li> <li>• CAPWAP tunnel timeout</li> <li>• Specific AP locating</li> </ul>
Button	<p>1 x Reset button</p> <ul style="list-style-type: none"> <li>• Press the button for shorter than 2 seconds. Then the device restarts.</li> <li>• Press the button for longer than 5 seconds. Then the device restores to factory settings.</li> </ul>
Dimensions (W x D x H)	<p>Main unit: 86 mm x 170 mm x 43 mm (3.39 in. x 6.69 in. x 1.69 in.) Shipping: 104 mm x 187 mm x 69 mm (4.10 in. x 7.37 in. x 2.72 in.)</p>
Weight	<p>Main unit: 0.22 kg (0.49 lbs) Mounting bracket: 0.1 kg (0.22 lbs) Shipping: 0.31 kg (0.68 lbs)</p>
Mounting	<p>Installation in Chinese-standard 86-mm, American-standard, and European-standard junction boxes, and wall mounting (one mounting bracket)</p>
Lock option	<p>Kensington lock</p>
Input power supply	<p>The AP supports the following two power supply modes:</p> <ul style="list-style-type: none"> <li>• 48 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 supply needs to be purchased independently.</li> <li>• PoE input over the backplane interface: compliance with 802.3af/at standard (PoE/PoE+)</li> </ul> <p>Note: If both DC power and PoE are available, DC power is preferred.</p>
Power consumption	<p>Maximum power consumption: 25 W</p> <ul style="list-style-type: none"> <li>• DC power: 25 W, 2.4 GHz radio 2x2, 5 GHz radio 2x2, LAN 1 for PoE supply</li> <li>• 802.3at (PoE+): 25 W, 2.4 GHz radio 2x2, 5 GHz radio 2x2, LAN 1 for PoE supply</li> <li>• 802.3af (PoE): 15 W, 2.4 GHz radio 2x2, 5 GHz radio 2x2, LAN 1 port that fail to provide power for external devices (PoE out disabled of LAN 1 port disabled)</li> <li>• Idle mode: 8 W</li> </ul>
Environment	<p>Storage temperature: -40°C to +70°C (-40°F to +158°F) Storage humidity: 5% RH to 95% RH (non-condensing) Operating temperature: -10°C to +45°C (14°F to 113°F) Operating humidity: 5% RH to 95% RH (non-condensing) At an altitude between 3,000 m (9,842.52 ft.) and 5,000 m (16,404.20 ft.), every time the altitude increases by 166 m (546 ft.), the maximum temperature decreases by 1°C (1.8°F).</p>
Mean Time Between Failure (MTBF)	<p>200,000 hours (22 years) at the operating temperature of 25°C (77°F)</p>
System memory	<p>512 MB DRAM, 128 MB flash</p>
Transmit power	<p>2.4 GHz: 20 dBm (100 mW) 5 GHz: 20 dBm (100 mW) Note: The transmit power adjusted in percentage. The transmit power is limited by local regulatory requirements.</p>



The following table lists the radio frequency performance of Wi-Fi including different frequency bands, protocols, and data rates. It is country-specific, and Ruijie Networks reserves the right of interpretation.

Radio Frequency Performance	RG-AP180-I		
Frequency Band and Protocol	Data Rate	Max. Transmit Power per Transmit Chain	Max. Receive Sensitivity per Receive Chain
2.4 GHz 802.11b	1 Mbps	20 dBm	-96 dBm
	2 Mbps	-10 dBm	-94 dBm
	5.5 Mbps	-10 dBm	-93 dBm
	11 Mbps	-10 dBm	-89 dBm
2.4 GHz 802.11g	6 Mbps	19 dBm	-91 dBm
	24 Mbps	17 dBm	-85 dBm
	36 Mbps	17 dBm	-80 dBm
	54 Mbps	16 dBm	-74 dBm
2.4 GHz 802.11n (HT20)	MCS0	19 dBm	-85 dBm
	MCS7	16 dBm	-67 dBm
2.4 GHz 802.11n (HT40)	MCS0	19 dBm	-82 dBm
	MCS7	16 dBm	-64 dBm
2.4 GHz 802.11ax (HE20)	MCS0	18 dBm	-85 dBm
	MCS11	12 dBm	-58 dBm
2.4 GHz 802.11ax (HE40)	MCS0	17 dBm	-82 dBm
	MCS11	12 dBm	-54 dBm
5 GHz 802.11a	6 Mbps	18 dBm	-89 dBm
	24 Mbps	17 dBm	-82 dBm
	36 Mbps	17 dBm	-78 dBm
	54 Mbps	15 dBm	-72 dBm

Radio Frequency Performance	RG-AP180-I		
Frequency Band and Protocol	Data Rate	Max. Transmit Power per Transmit Chain	Max. Receive Sensitivity per Receive Chain
5 GHz 802.11n (HT20)	MCS0	18 dBm	-85 dBm
	MCS7	14 dBm	-67 dBm
5 GHz 802.11n (HT40)	MCS0	17 dBm	-82 dBm
	MCS7	14 dBm	-64 dBm
5 GHz 802.11ac (VHT20)	MCS0	18 dBm	-85 dBm
	MCS9	13 dBm	-60 dBm
5 GHz 802.11ac (VHT40)	MCS0	17 dBm	-82 dBm
	MCS9	13 dBm	-57 dBm
5 GHz 802.11ac (VHT80)	MCS0	16 dBm	-82 dBm
	MCS9	13 dBm	-56 dBm
5 GHz 802.11ax (HE20)	MCS0	18 dBm	-85 dBm
	MCS11	12 dBm	-58 dBm
5 GHz 802.11ax (HE40)	MCS0	17 dBm	-82 dBm
	MCS11	12 dBm	-54 dBm
5 GHz 802.11ax (HE80)	MCS0	16 dBm	-82 dBm
	MCS11	12 dBm	-52 dBm
5 GHz 802.11ax (HE160)	MCS0	15 dBm	-79 dBm
	MCS11	12 dBm	-50 dBm

## Software Specifications

Software Specifications	RG-AP180-I
Basic Functions	
Applicable software version	RGOS11.9(6)W3B3 or later
WLAN	
Max. number of associated STAs	256 (up to 128 STAs per radio)
Max. number of BSSIDs	32 (up to 16 BSSIDs per radio)
Max. number of WLAN IDs	16
STA management	<ul style="list-style-type: none"> <li>SSID hiding</li> <li>Each SSID can be configured with the authentication mode, encryption mechanism, and VLAN attributes independently.</li> <li>Remote Intelligent Perception Technology (RIPT)</li> <li>Intelligent STA identification technology</li> <li>Intelligent load balancing based on the STA quantity or traffic</li> <li>Rate set settings</li> </ul>
STA limiting	<ul style="list-style-type: none"> <li>SSID-based STA limiting</li> <li>Radio-based STA limiting</li> </ul>
Bandwidth limiting	STA/SSID/AP-based rate limiting
CAPWAP	<ul style="list-style-type: none"> <li>IPv4/IPv6 CAPWAP</li> <li>Layer 2 and Layer 3 topology between an AP and an AC</li> <li>An AP can automatically discover the accessible AC.</li> <li>An AP can be automatically upgraded through the AC.</li> <li>An AP can automatically download the configuration file from the AC.</li> <li>CAPWAP through NAT</li> <li>MTU setting and fragmentation over CAPWAP tunnels</li> <li>Encryption over CAPWAP data channels</li> <li>Encryption over CAPWAP control channels</li> </ul>
Data forwarding	Centralized and local forwarding
Wireless roaming	Layer 2 and Layer 3 roaming
Wireless locating	MU device locating

Software Specifications	RG-AP180-I
<b>Security and Authentication</b>	
Authentication and encryption	Remote Authentication Dial-In User Service (RADIUS) PSK and web authentication QR code-based guest authentication, SMS authentication, and MAC address bypass (MAB) authentication Data encryption: WEP (64/128 bits), WPA (TKIP), WPA-PSK, WPA2 (AES), WPA3-Enterprise, WPA3-Individual
Data frame filtering	Allowlist, static blocklist, and dynamic blocklist
WIDS	Wireless Intrusion Detection System(WIDS) User isolation Rogue AP detection and containment
ACL	IP standard ACL, MAC extended ACL, IP extended ACL, and expert-level 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 the AC)
CPP	CPU Protect Policy (CPP)
NFPP	Network Foundation Protection Policy (NFPP)
<b>Routing and Switching</b>	
MAC	Static and filtered MAC addresses MAC address table size: 1,024 Max. number of static MAC addresses: 1,024 Max. number of filtered MAC addresses: 1,024
Ethernet	Jumbo frame length: 1,518 Full-duplex and half-duplex modes of interfaces IEEE802.1p and IEEE802.1Q
VLAN	Interface-based VLAN assignment Max. number of SVIs: 200 Max. number of VLANs: 4,094 VLAN ID range: 1-4,094
ARP	ARP entry aging and proxy ARP Max. number of ARP entries: 1,024 ARP check
IPv4 services	Static and DHCP-assigned IPv4 addresses NAT, FTP ALG and DNS ALG

Software Specifications	RG-AP180-I
IPv6 services	IPv6 addressing, Neighbor Discovery (ND), ICMPv6, IPv6 ping IPv6 DHCP client
IP routing	IPv4/IPv6 static route Max. number of static IPv4 routes: 1,024 Max. number of static IPv6 routes: 1,000
Multicast	Multicast-to-unicast conversion
VPN	PPPoE client IPsec VPN
<b>Network Management and Monitoring</b>	
Network management	NTP server and NTP client SNTP client SNMPv1/v2c/v3 Fault detection and alarm Information statistics and logging
Network management platform	Web management (Eweb)
User access management	Telnet and TFTP Management
Switchover among Fat, Fit, and cloud modes	When the AP works in Fit mode, it can be switched to Fat mode through an AC. When the AP works in Fat mode, it can be switched to Fit mode through the console port or Telnet mode. When the AP works in cloud mode, it can be managed through Ruijie Cloud.

### Value-added Software

The following value-added software functions can be achieved with the WIS solution (used with RG-iData-WIS and wireless controller).

Value-added Software	RG-AP180-I
<b>Intelligent O&amp;M</b>	
Experience	Network operation analysis, such as device stability and signal coverage Measuring users' network experience based on indicators such as the latency, packet loss, signal strength, and channel utilization, and visualizing results of the network experience Statistics on the number of online and offline failures of STAs associated with different APs, average signal strength, and other parameters VIP monitoring and alarm, and custom alarm thresholds STA global experience map and experience coverage evaluation based on the time range STA access protocol replay and fine-grained STA fault diagnosis Note: To support the preceding functions, ensure that the AP works in Fit mode.

Value-added Software	RG-AP180-I
Network optimization	Network performance optimization, including one-click network optimization and scenario-based optimization Client steering to cope with roaming stickiness, and experience indicator comparison Client steering to cope with remote association, and experience indicator comparison One-click diagnosis – analyzing problems and providing suggestions
Big data	Baseline analysis – recording the configuration, version, and other changes, and tracking network KPI changes Time capsule – analyzing the device version and configuration change history
Regional analysis	Batch generation of building floor information – uploading floor plans, and dragging and dropping AP positions
One-click report	One-click health report – generating a report on the overall operation of a network
Security radar	Unauthorized Wi-Fi signal location, presentation by category, and containment
<b>Cloud Management</b>	
Management and maintenance	Uniformly connecting, managing, and maintaining APs, ACs, and other devices, batch device configuration and upgrade, and other functions Deployment through Zero Touch Provisioning (ZTP) – creating configuration templates and automatically applying configured templates One-click discovery of the wired and wireless network topology and topology generation
<b>Cloud Authentication</b>	
Authentication mode	SMS authentication, fixed account authentication, one-click authentication, Facebook authentication, Instagram authentication, voucher authentication, and other authentication modes Authentication implemented in the cloud, without the need to deploy the local authentication server
Customized portal	Customized Portal authentication page for mobile phones and PCs
SMS gateway	Interconnection with SMS gateways of GUODULINK and Alibaba Cloud
<b>Platform Capabilities</b>	
Hierarchy and decentralization	Authorizing different applications for different users to meet service needs of different departments Granting operation permissions to administrators in different scenarios
System management	Account operation, authorization configuration, email configuration, configuration backup, exception alarms, and other system management functions

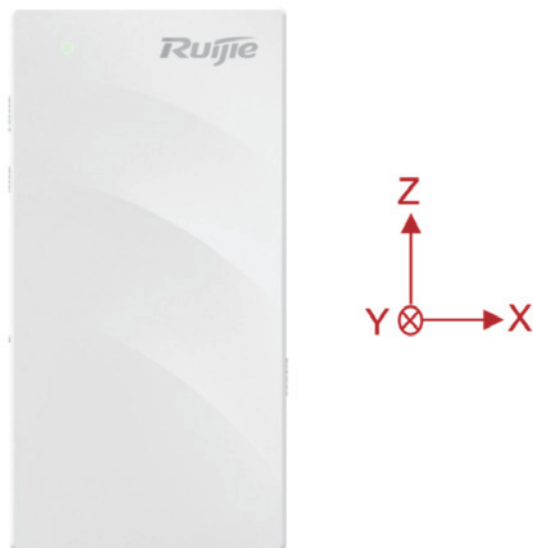
Note: For details, refer to the latest hybrid cloud management solution.

## Regulatory Compliance

Regulatory Compliance	RG-AP180-I
Regulatory compliance	EN 55032, EN 55035, EN 61000-3-3, EN IEC 61000-3-2, IEC 62368-1, EN 62368-1, EN 301 489-1, EN 301 489-3, EN 301 489-17, EN 300 328, EN 301 893, EN 300 440, FCC Part 15, and EN IEC 62311

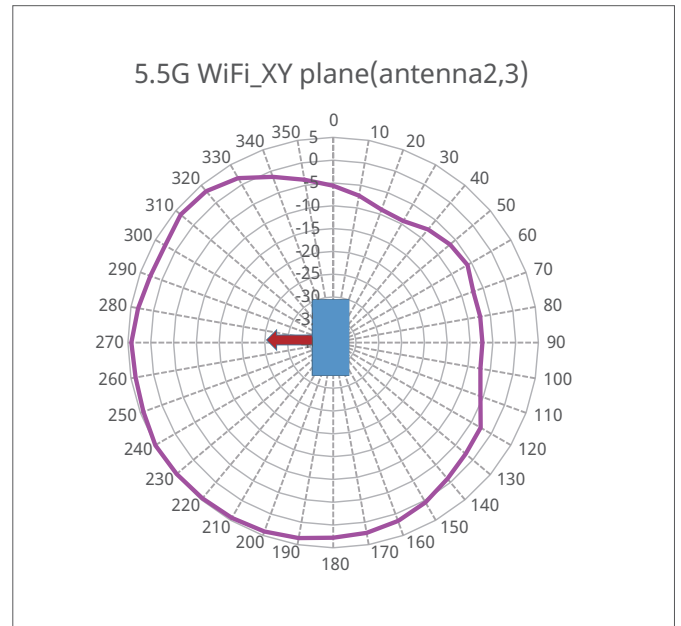
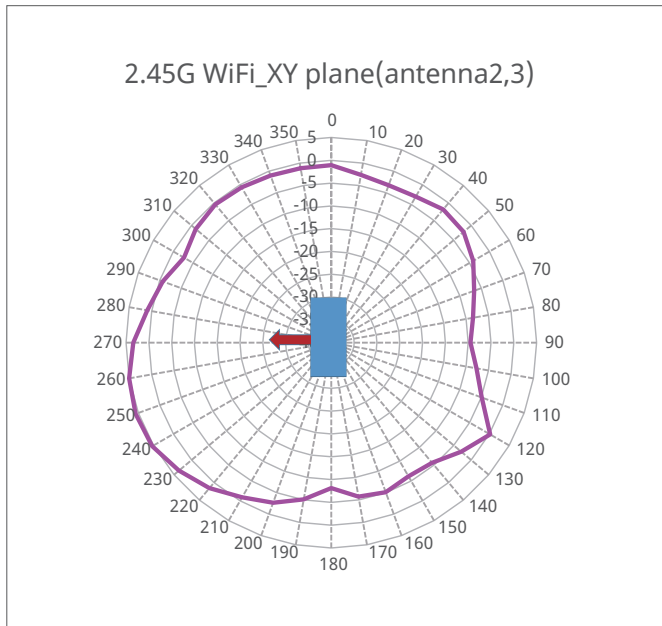
\* For more country-specific regulatory information and approvals, contact your local sales agency.

## | Antenna Pattern Plots



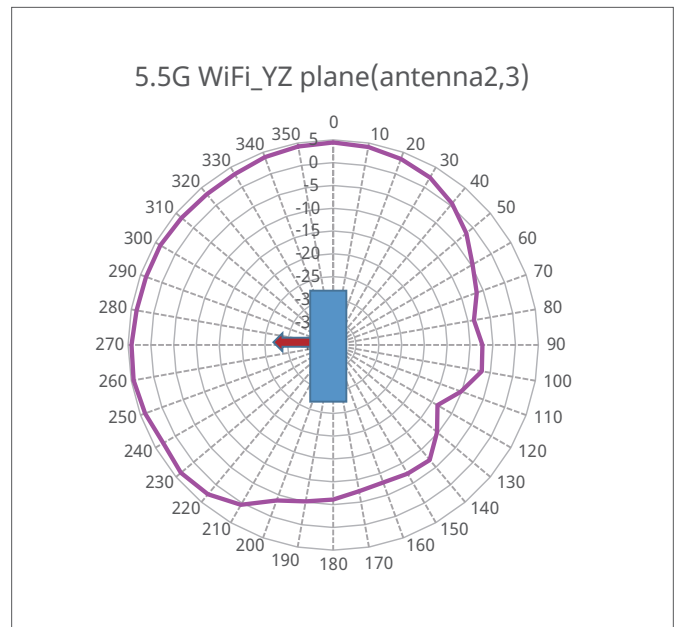
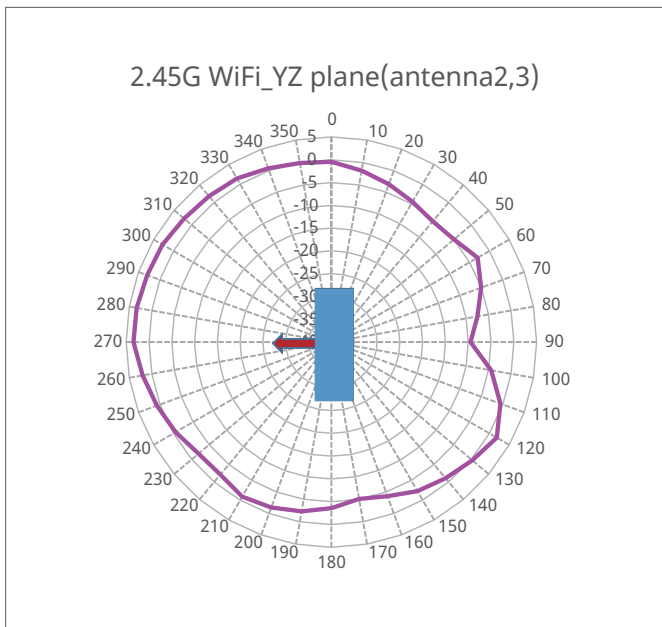
## Horizontal Planes (Top View)

The following figures show the azimuth antenna pattern at 2.4 GHz and 5 GHz radios.



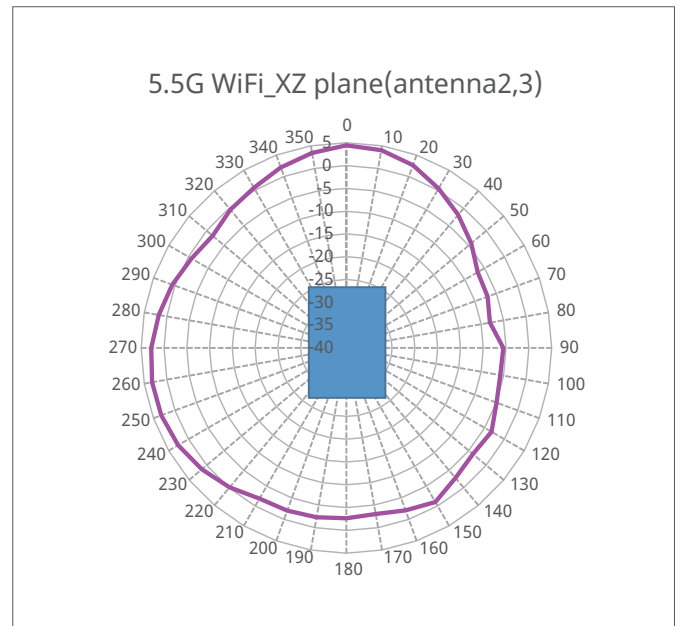
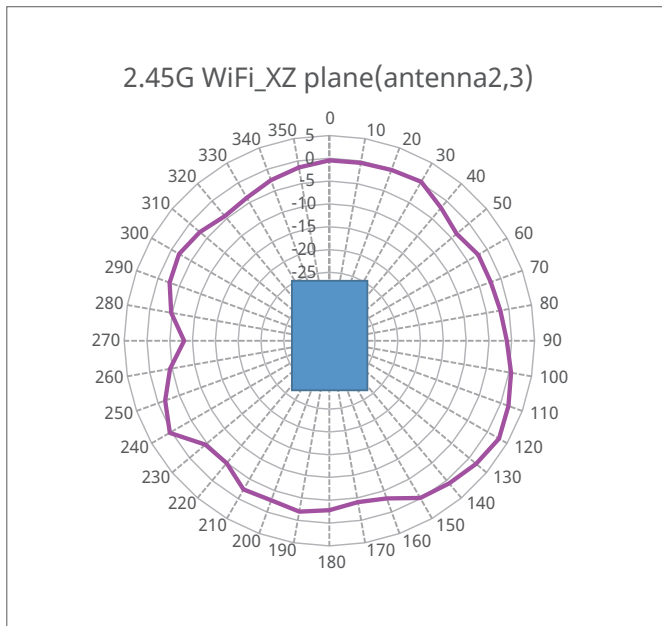
## Vertical Planes (Side View, AP Facing Down)

The following figures shows the elevation antenna pattern at 2.4 GHz and 5 GHz radios.





## Vertical Planes (Front View)



Note: Operating frequency bands are country-specific.

## Ordering Information

Model	Description
RG-AP180-I	<p>Wi-Fi 6 dual-radio wall plate access point Four spatial streams, peak data rate of 2.976 Gbps 802.11a/b/g/n/ac/ax, switching between Fat, Fit, and cloud modes, and 802.3af/at PoE and local DC power supply</p> <p>Note:</p> <ul style="list-style-type: none"><li>• The power source equipment (PSE) needs to be purchased separately.</li><li>• The DC power supply needs to be purchased separately, and the output voltage/current must be 48 V/0.6 A.</li></ul>

## Package Contents

Item	Quantity
Main unit	1
Mounting bracket	1
T8 Phillips screw	1
4.2 mm x 20 mm Phillips pan head self-tapping screw	2
<i>Warranty Card and Hazardous Substance Table</i>	1
<i>Quick Start Guide</i>	1

## Warranty

For more information about warranty terms and period, contact your local sales agency:

- Warranty terms: <https://www.ruijienetworks.com/support/servicepolicy>
- Warranty period: <https://www.ruijienetworks.com/support/servicepolicy/Service-Support-Summary/>

Note: The warranty terms are subject to the terms of different countries and distributors.

## More Information

For more information about Ruijie Networks, visit the official Ruijie website or contact your local sales agency:

- Ruijie Networks official website: <https://www.ruijienetworks.com/>
- Online support: <https://www.ruijienetworks.com/support>
- Hotline support: <https://www.ruijienetworks.com/support/hotline>
- Email support: [service\\_rj@ruijienetworks.com](mailto:service_rj@ruijienetworks.com)

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For more information, visit [www.ruijienetworks.com](http://www.ruijienetworks.com) or call 86-400-620-8818.