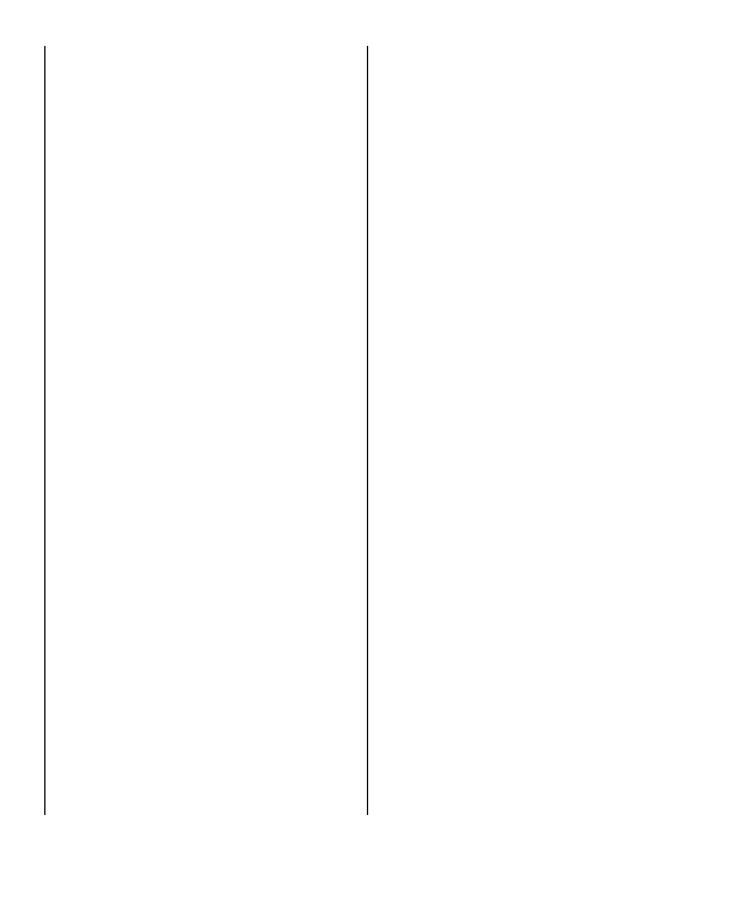
Specifications

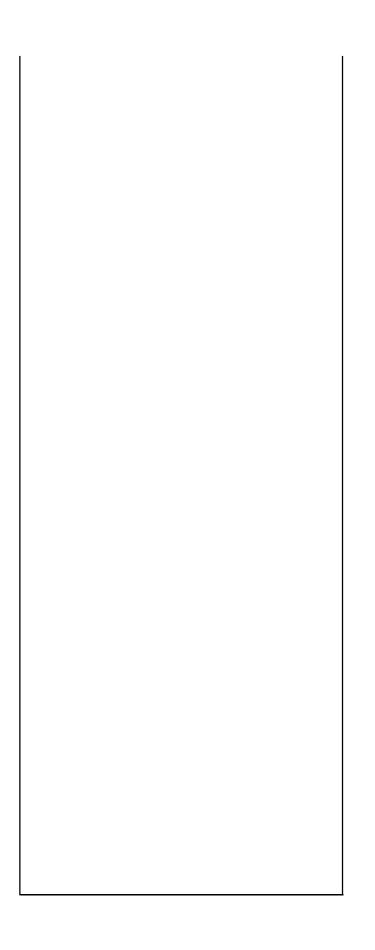
Dimensions and Weight
Unit dimensions (W x H x D)
Shipping dimensions (W x D x H)
Unit weight
Shipping weight

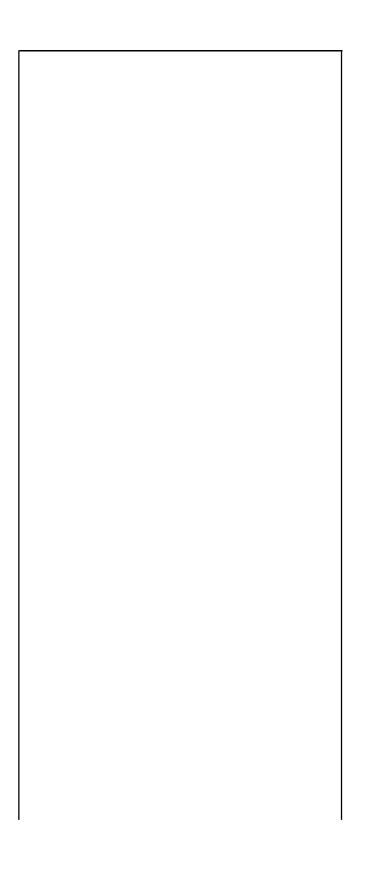
Mounting	
Color	
Wi-Fi Radio	
Radio design	

Operating frequencies	



Data rates	





Data rate set	
	I

packet aggregation
Antenna type
Max. antenna gain
May transmit nower

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Devices in one we are t
Power increment
Radio technologies
-

Modulation types		

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

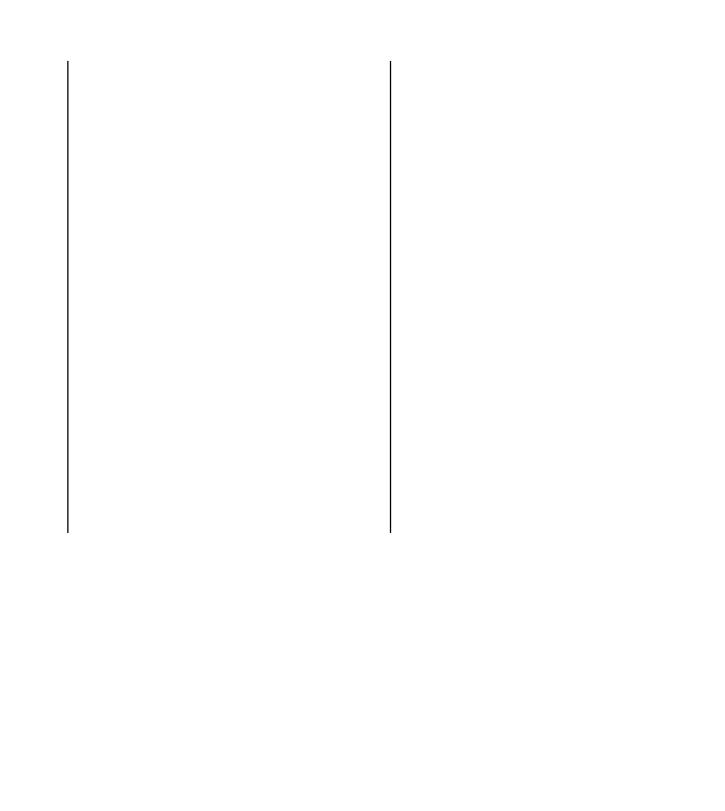
Wi-Fi Radio
Frequency Performance
Frequency Band and Protocol
2.4 GHz, 802.11b

2.4 GHz, 802.11g
2.4 GHz, 802.11n (HT20)
2.4 GHz, 802.11n (HT40)
2.4 GHz, 802.11ax (HE20)
2.4 GHz, 802.11ax (HE40)
5 GHz, 802.11a
5 GHz, 802.11n (HT20)
5 GHz, 802.11n (HT40)
5 GHz, 802.11ac (VHT20)
5 GHz, 802.11ac (VHT40)

5 GHz, 802.11ac (VHT80)
5 GHz, 802.11ax (HE20)
5 GHz, 802.11ax (HE40)
5 GHz, 802.11ax (HE80)
Bluetooth Radio
Bluetooth
Antenna type
Max. antenna gain
Max. transmit power
Receive sensitivity
Ports

Fixed service port	
Fixed management port	
Status LED	

Button	
Power Supply and Consumption	



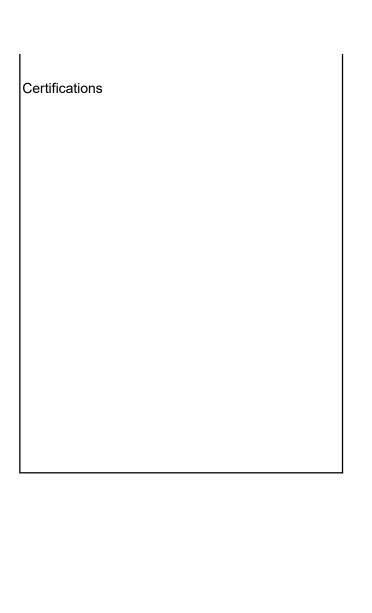
Input power supply	

External power supply
Power consumption
Environment and Reliability

Temperature	
Humidity IP rating	
IP rating	

Environment standard
Mean Time Between Failure (MTBF)
Certifications and Regulatory Compliance

Regulatory compliance	



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

Applicable software version

Applicable software version
WLAN
Max. number of associated STAs
Max. number of BSSIDs
STA management

STA limiting
Bandwidth limiting
Wireless roaming
Security and Authentication

ı	
Authentication and encryption	
Data frame filtering	

	\neg
WIDS	
WIDS	
ACL	
ACL	
CPP	\dashv
NFPP	\dashv
	- 1

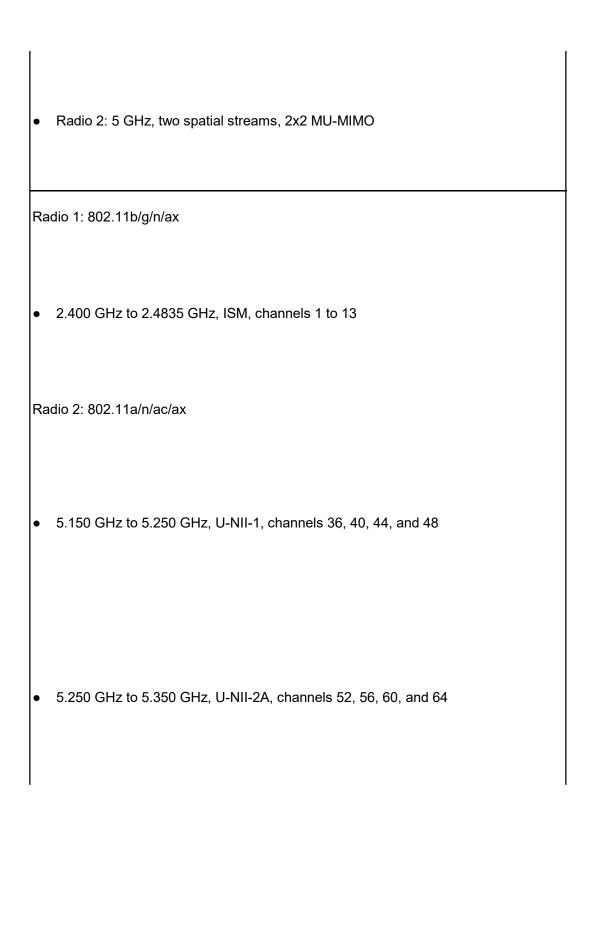
Routing and Switching
IP service
Multicast
IPv6 basics
IP routing
VPN

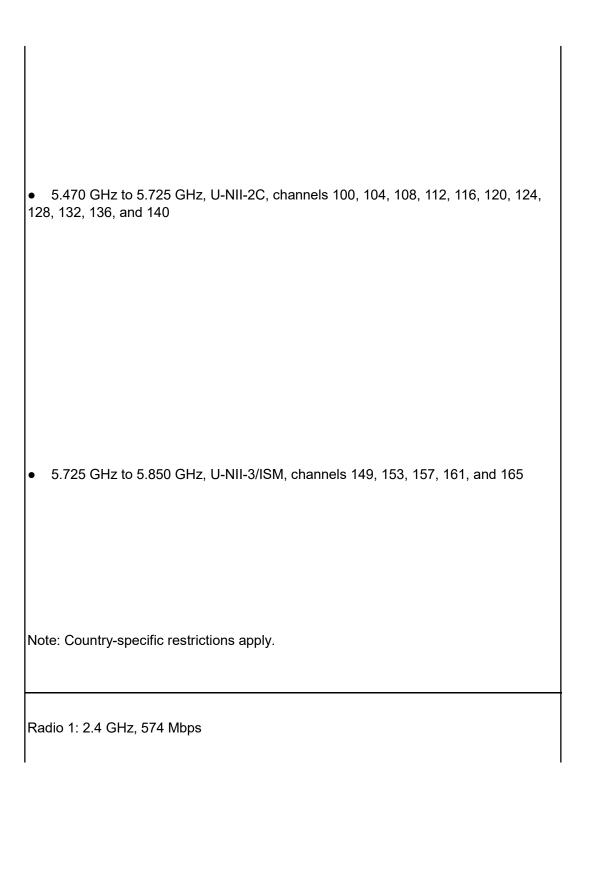
Management		
Network management		
Network management platform		
STA access management		

Fat/Fit/Cloud mode switchover	

RG-AP18	30
In-wall: 8	6 mm x 116 mm x 19 mm (3.4 in x 4.6 in x 0.8 in)
Above-wa	all: 86 mm x 116 x mm x 24 mm (3.4 in x 4.6 in x 1.0 in)
508 mm	x 390 mm x 152 mm (20.0 in x 15.4 in x 6.0 in)
0.22 kg (0.49 lbs)
0.3 kg (0	66 lbs)
Wall-mou	ınt

Compatible with 86-mm and EU standard junction boxes (if you want to use the US standard junction box, purchase an RG-AP180-MNT mounting bracket separately)
Elegant white
RG-AP180
Dual-radio and up to four spatial streams:
Radio 1: 2.4 GHz, two spatial streams, 2x2 MU-MIMO

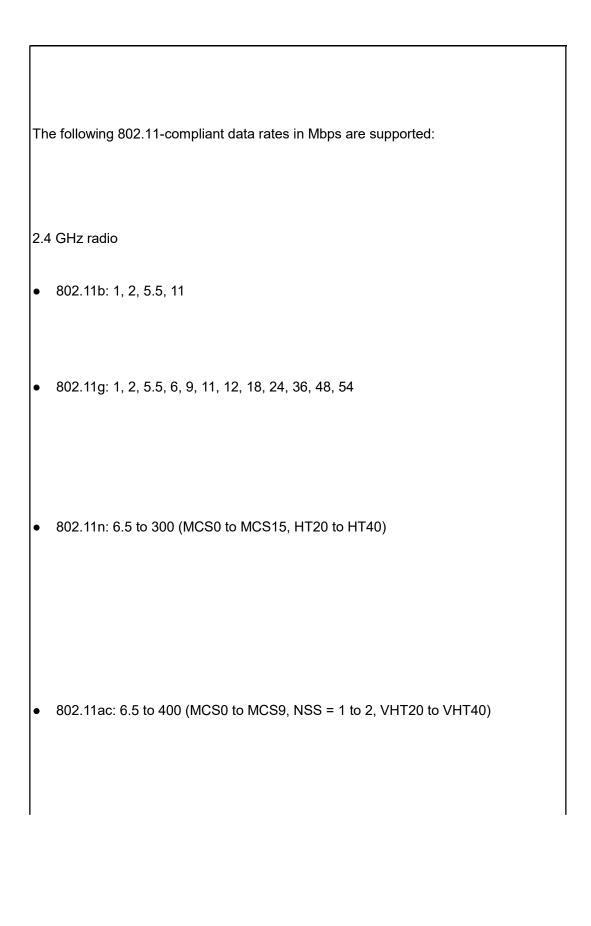


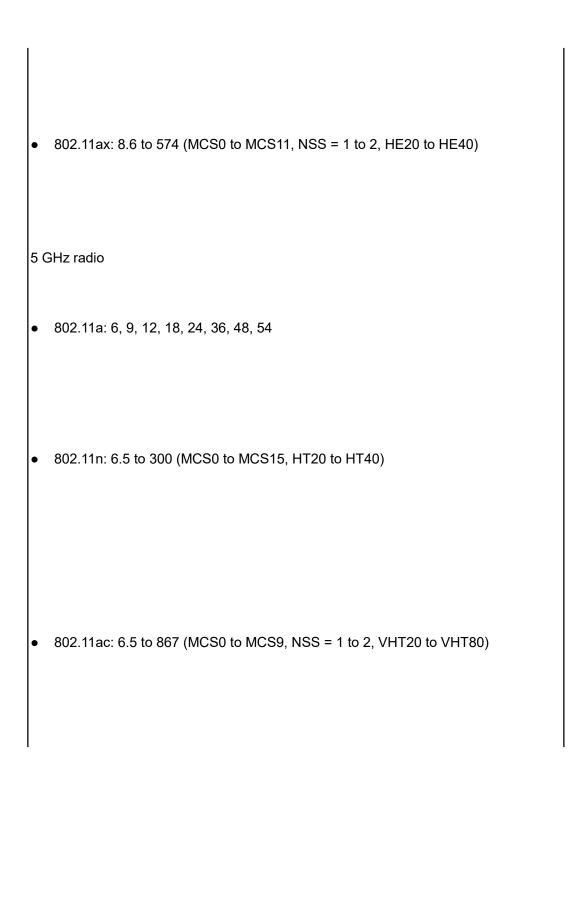


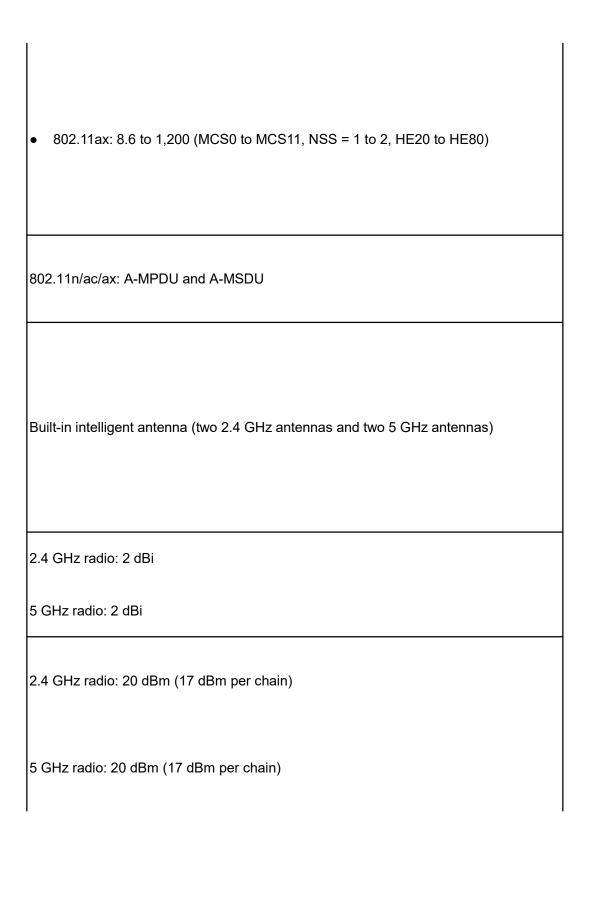
Two spatial stream Single User (SU) MIMO for up to 574 Mbps wireless data rate to individual 2SS HE40 802.11ax client devices (max.)
Two spatial stream Single User (SU) MIMO for up to 287 Mbps wireless data rate to individual 2SS HE20 802.11ax client devices (typical)
Radio 2: 5 GHz, 1.2 Gbps

● Two spatial stream Single User (SU) MIMO for up to 1.2 Gbps wireless data rate o individual 2SS HE80 802.11ax client devices (max.)	
• Two spatial stream Single User (SU) MIMO for up to 574 Mbps wireless data rate o individual 2SS HE40 802.11ax client devices (typical)	

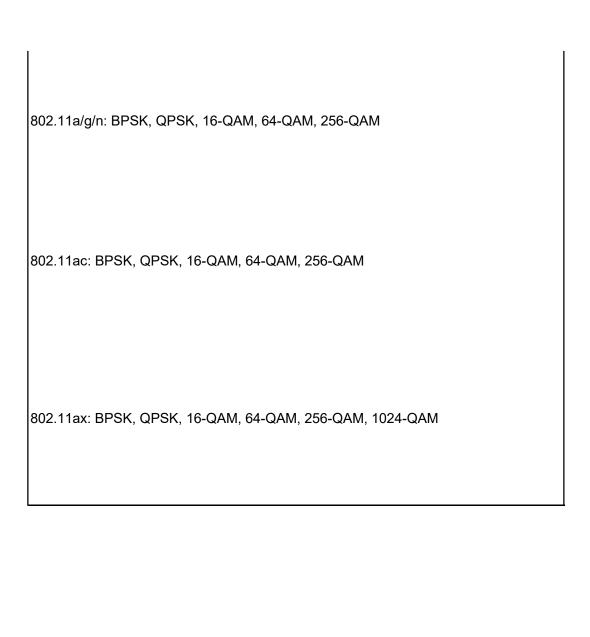
Two spatial stream Multi-User (MU) MIMO for up to 1.2 Gbps wireless data rate to up to two 1SS HE80 802.11ax DL-MU-MIMO capable client devices simultaneously (max.)	
Two spatial stream Multi-User (MU) MIMO for up to 574 Mbps wireless data rate to up to two 1SS HE40 802.11ax DL-MU-MIMO capable client devices simultaneously (typical))







Note: The transmit power is limited by local regulatory requirements.
Configurable in increments of 1 dBm
802.11b: Direct-Sequence Spread-Spectrum (DSSS)
802.11a/g/n/ac: Orthogonal Frequency-Division Multiplexing (OFDM)
802.11ax: Orthogonal Frequency Division Multiple Access (OFDMA)
802.11b: BPSK, QPSK, CCK



RG-AP180 Max. Transmit Power Data Rate per . Transmit Chain 1 Mbps 18 dBm 2 Mbps 17 dBm 5.5 Mbps 16 dBm 11 Mbps 15 dBm

6 Mbps	18 dBm
24 Mbps	16 dBm
36 Mbps	16 dBm
54 Mbps	15 dBm
MCS0	18 dBm
MCS7	15 dBm
MCS0	18 dBm
MCS7	15 dBm
MCS0	18 dBm
MCS11	12 dBm
MCS0	18 dBm
MCS11	12 dBm
6 Mbps	18 dBm
24 Mbps	16 dBm
36 Mbps	16 dBm
54 Mbps	15 dBm
MCS0	18 dBm
MCS7	15 dBm
MCS0	18 dBm
MCS7	15 dBm
MCS0	18 dBm
MCS9	13 dBm
MCS0	18 dBm
MCS9	13 dBm

MCS0	18 dBm
MCS9	13 dBm
MCS0	18 dBm
MCS11	12 dBm
MCS0	18 dBm
MCS11	12 dBm
MCS0	18 dBm
MCS11	12 dBm

RG-AP180
Bluetooth 5.0
Onboard omnidirectional antenna
2.4 dBi, with a downtilt angle of roughly 30 degrees
10 dBm
-88 dBm (@BLE)

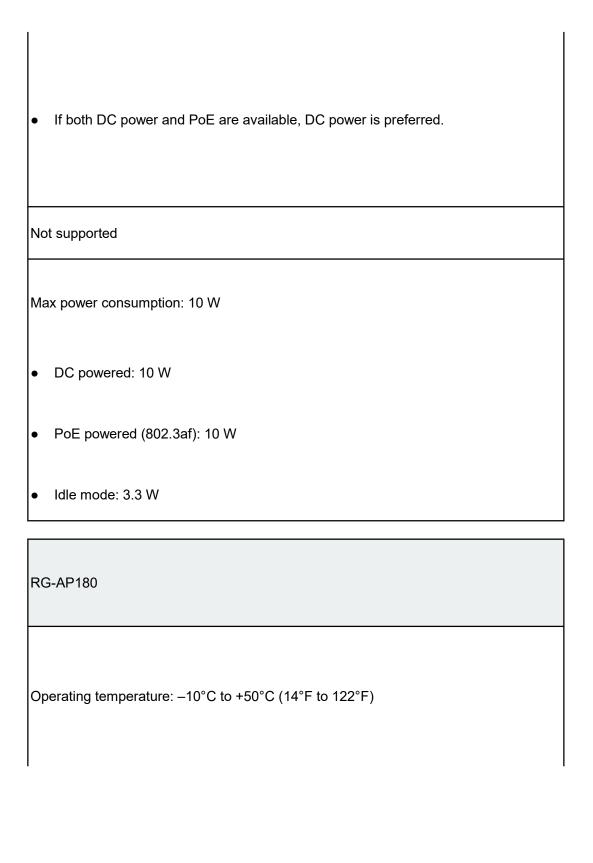
RG-AP180	
Uplink:	

1 x 10/100/1000Base-T Ethernet port with auto-negotiation, compliant-with IEEE 802.3af/802.3at standard (PoE/PoE+).	
Downlink:	
4 x 10/100/1000Base-T Ethernet ports with auto-negotiation	
1 x Micro USB console port (under the decorative cover)	
1 x multi-color system status LED	
1 x Reset button	

• [ress the b	outton for s	shorter tha	n 2 second	ls. Then t	he device	restarts	
● [outton for I	longer than	3 second	s. Then th	e device	restores	to factor
RG-	AP180							
The	AP suppor	rts the follo	owing two p	oower supp	oly modes	:		

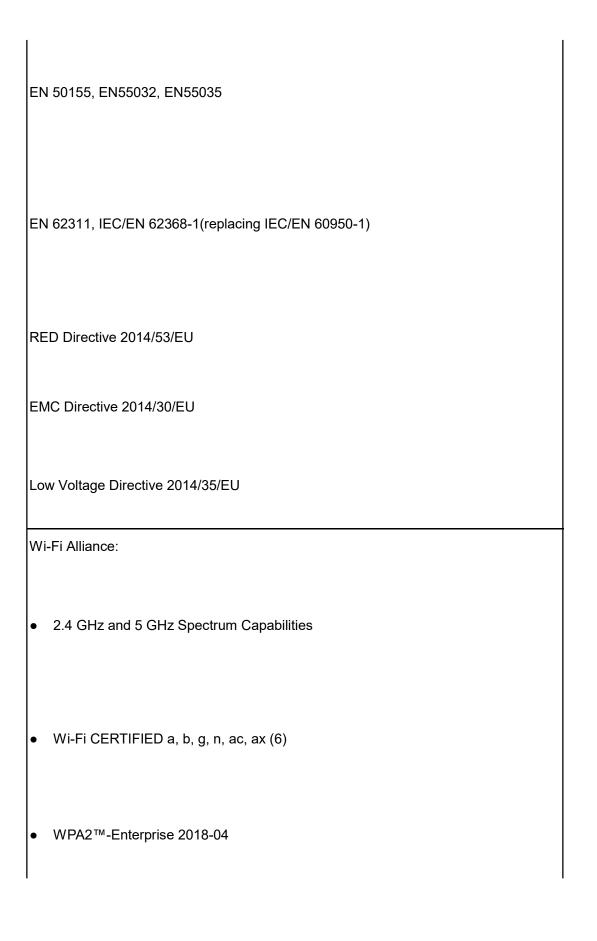
12 V DC/1 A power input over DC connector: The DC connectormm/5.5 mm center-positive circular plug. A DC power adapter nesseparately.	tor accepts 2.1 eds to be purcha

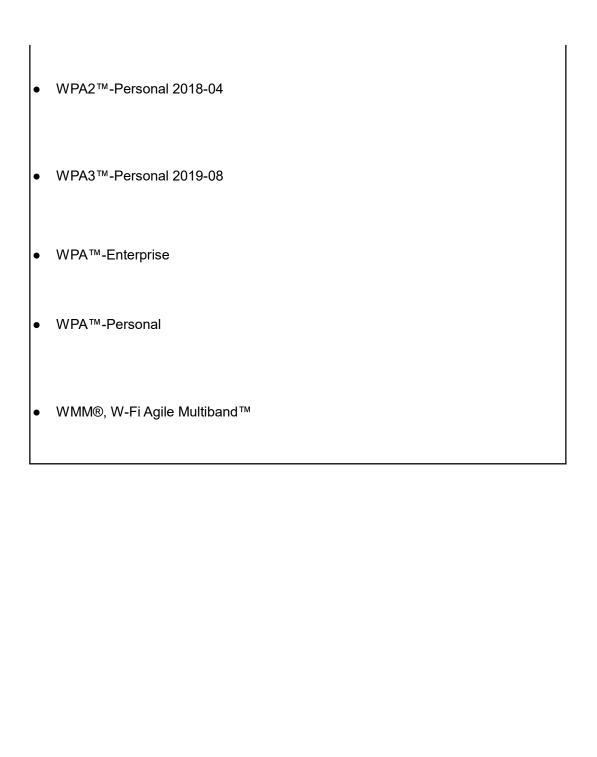
PoE input over the PoE-in port: The power source equipment (PSE) complies with the IEEE 802.3af standard. The IEEE 802.3at (PoE+) standard is backward compatible with the IEEE 802.3af (PoE) standard. Standard is backward compatible with the IEEE 802.3af (PoE) standard.
Note:
When powered by 802.3at (PoE+), the AP operates with the optimal performance.



Storage temperature: –40°C to 70°C (–40°F to +158°F)
Note: At an altitude between 3,000 m (9,843 ft) and 5,000 m (16,404 ft), every time the altitude increases by 220 m (722 ft), the maximum temperature decreases by 1°C (1.8°F).
Operating humidity: 5% to 95% RH (non-condensing)
Storage humidity: 5% to 95% RH (non-condensing)

Storage and operating environment: NEBS GR-63-CORE_Issue3_2006 GB/T 2423.6-1995
200,000 hours (22 years) at the operating temperature of 25°C (77°F)
RG-AP180
GB 4943.1
CE Marked, EN300 328, EN301 893, EN 301 489, EN 50121,





RG-AP180

RGOS11
RG-AP180
512 (up to 256 STAs per radio)
16 (up to 8 BSSIDs per radio)
SSID hiding
Each SSID can be configured with the authentication mode, encryption mechanism, and VLAN attributes independently.
Remote intelligent perception technology (RIPT)

Intelligent client identification technology
Intelligent load balancing based on the STA quantity or traffic
SSID-based STA limiting
Radio-based STA limiting
STA/SSID/AP-based rate limiting
Layer 2 and Layer 3 roaming
RG-AP180
Remote Authentication Dial-In User Service (RADIUS)

PSK, web, and 802.1X authentication	
QR code-based guest authentication, SMS authentication, MAB authentication (used with the RG-WS series wireless access controller)	
Data encryption: WEP (64/128-bit), WPA-TKIP, WPA-PSK, WPA2-AES, WPA3	
Allowlist, static blocklist, and dynamic blocklist	

User isolation					
Rogue AP detection and containment					
Dynamic ACL assignment					
ACL assignment based on time spans					
ACL assignment (complete entry) based on MAC addresses					
Execution of pre-configured ACLs (entry index) based on MAC addresses					
Supported					
Supported					

RG-AP180
Static IPv4 address and DHCP-assigned IPv4 address
NAT ALG FTP and NAT ALG DNS
Multicast-to-unicast conversion
IPv6 addressing, Neighbor Discovery (ND), ICMPv6, IPv6 Ping
IPv6 DHCP Client
IPv4/IPv6 static routing
PPPoE client
IPsec VPN, up to four IPsec tunnels

RG-AP180
NTP server and NTP client
SNTP client
SNMP v1/v2c/v3
Fault inspection and alarm
Information statistics and logging
Web-based management (Eweb)
Console and Telnet-based management
TFTP Client
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.
When the AP works in Cloud mode, it can be managed through Ruijie Cloud.

Max. Receive Sensitivity per Receive Chain
–91 dBm
–91 dBm
–90 dBm
–87 dBm

–89 dBm
–82 dBm
–78 dBm
–72 dBm
–85 dBm
–77 dBm
–82 dBm
–64 dBm
–85 dBm
–58 dBm
–82 dBm
–54 dBm
–89 dBm
–82 dBm
–78 dBm
–72 dBm
–85 dBm
–67 dBm
–82 dBm
–64 dBm
–85 dBm
–60 dBm
–82 dBm
_57 dBm

-79 dBm	
-53 dBm	
-85 dBm	
–58 dBm	
-82 dBm	
_54 dBm	
–79 dBm	
–52 dBm	