Model	RG-AI
Hardware specifications	
Radio	Dual-ra Radio Radio 1
Protocol	Suppor 802.11
Operating Bands	802.11 802.11 depen
Spatial Streams	Up to 6

Max Throughput	Maxim Maxim Maxim
Modulation	OFDM QAM@ DSSS MIMO- OFDM

Receiver Sensitivity	11b : - 11a/g : 74dBm 11n : - 11ac H 11ac H

	11ac H 11ax H 11ax H
Antenna	Integra
Antenna Gain	2.4G: 3 5G: 3d
Service Ports	3 10/1(LAN &
Management Port	1 cons

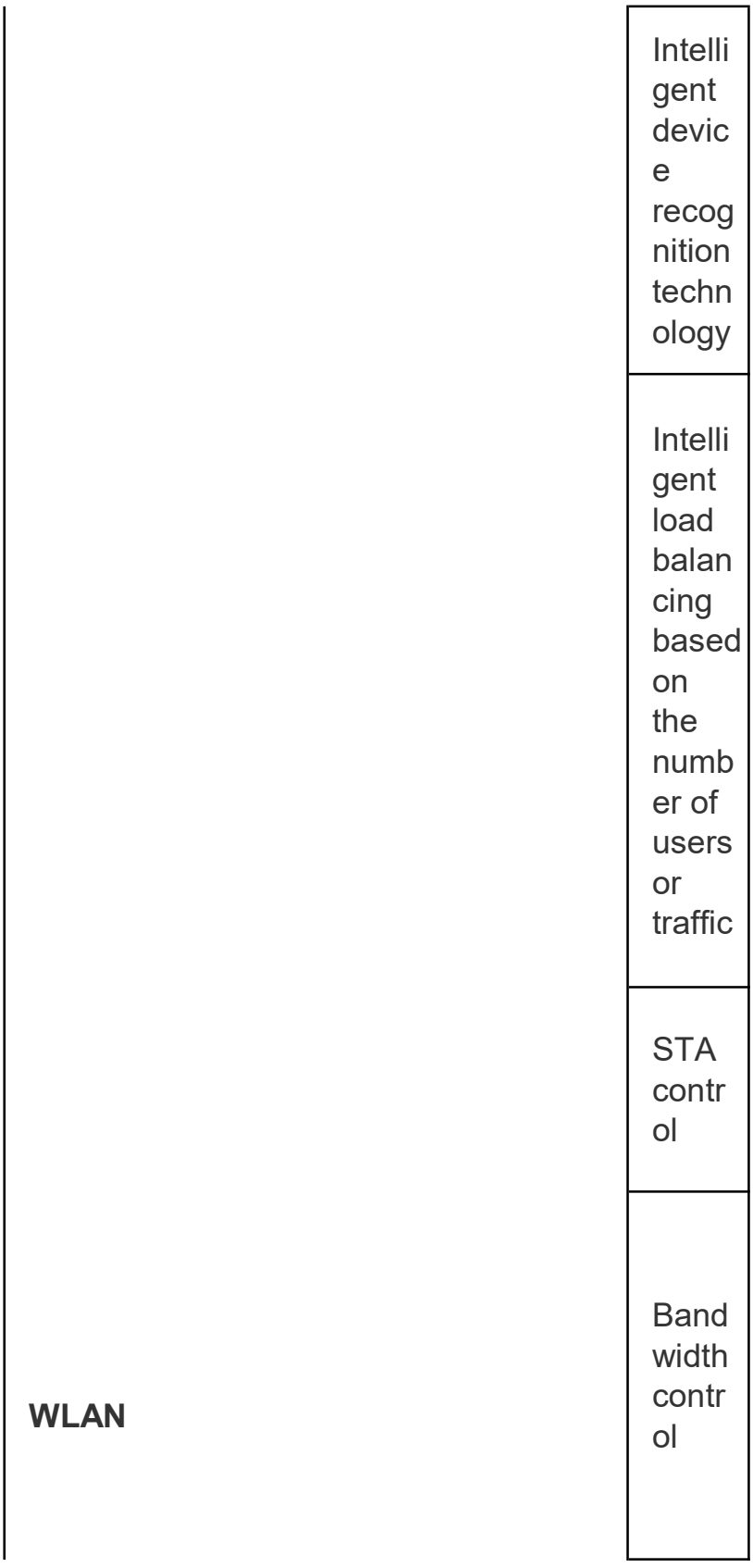
USB	1 USB
IoT Capability	BLE
Reset Button	Suppo
Anti-theft Lock	Suppo
LED Indicator	1 LED device
Transmit Power	≤100m
Adjustable Power	1dBm

Power Supply	Local p party v PoE+ (PoE (8 of the I
Power Consumption	＜25.4
Physical Specifications	
Temperature	Operat
	Storag

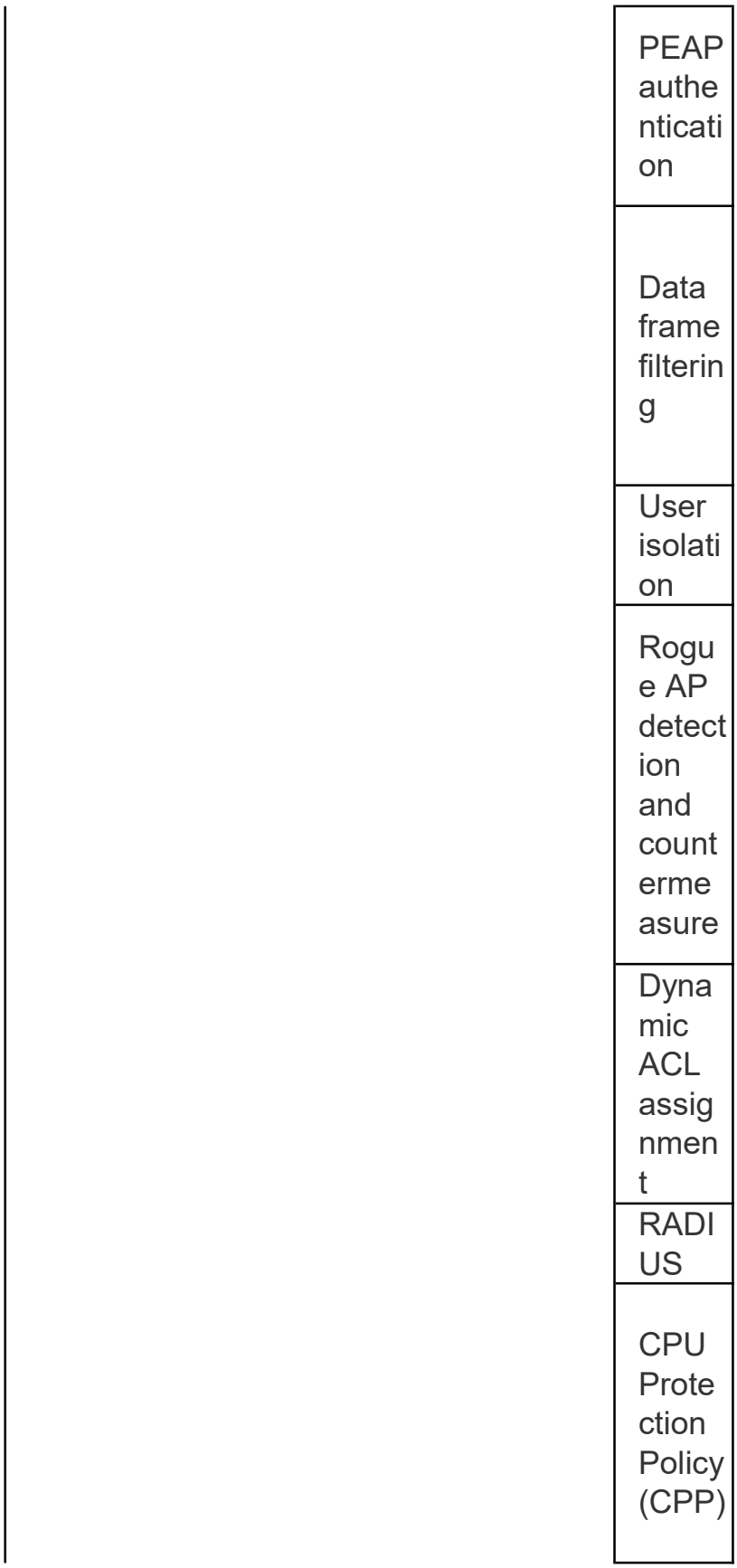
Humidity	Operat
	Storag
Installation Mode	Ceiling
Dimensions (W x D x H)	220mn
Weight	1.30kg
IP Rating	IP41
MTBF	250,00
Certifications and Compliance	
Safety Standard	GB494
EMC Standard	GB925 EN 55(

Health Standard	EN 6
Radio Standard	SRR
Software Specifications	
	Maximum clients per AP
	BSSID capacity
	SSID hiding
	5G Priority (Band Steering)

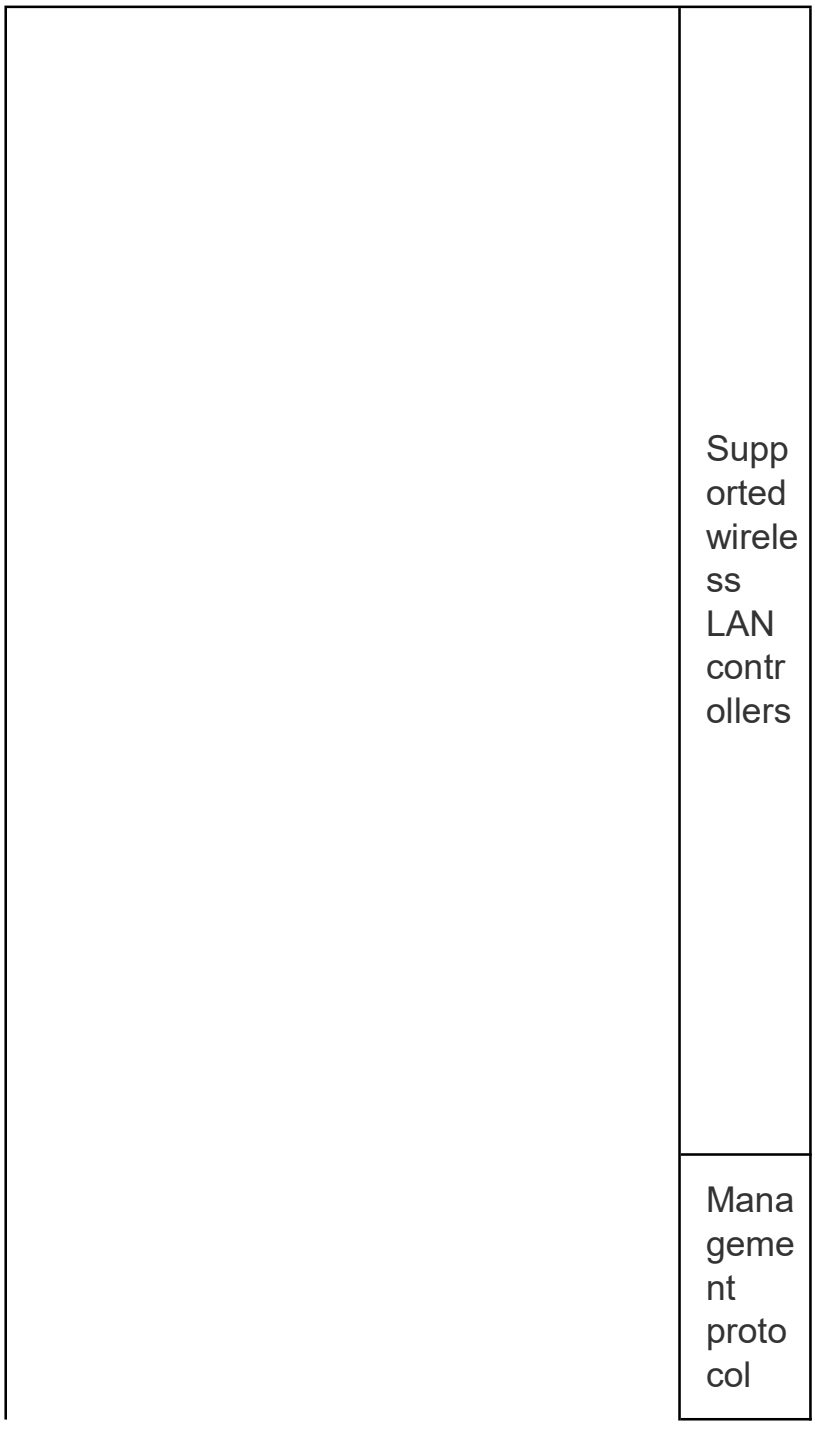
	Configuring the authentication mode, encryption mechanism and VLAN attributes for each SSID
	Remote Intelligent Perception Technology (RIPT)


WLAN
Intelligent device recognition technology
Intelligent load balancing based on the number of users or traffic
STA control
Bandwidth control

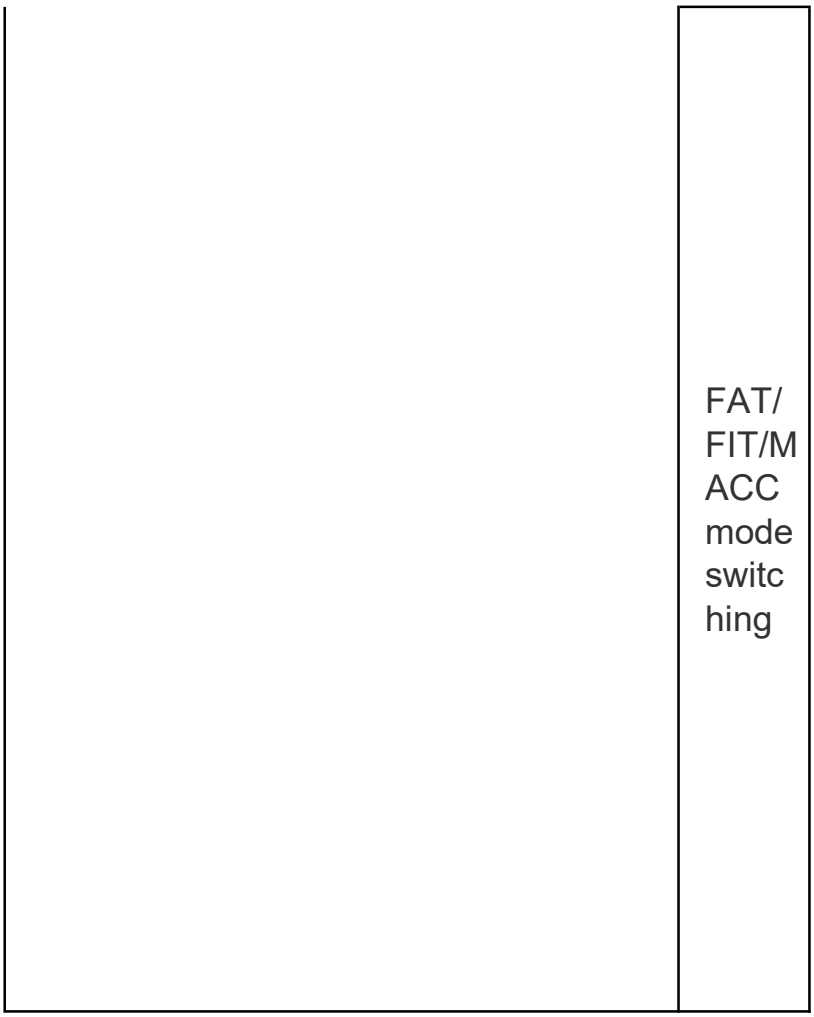
Data encryption
PSK and web authentication
PPSK authentication (For Employee)
802.1x authentication


PEAP authentication
Data frame filtering
User isolation
Rogue AP detection and countermeasure
Dynamic ACL assignment
RADIUS
CPU Protection Policy (CPP)

	Network Foundation Protection Policy (NFPP)
IP	IPv4 and IPv6 address
	Multicast routing
	DHCP service


Supp
orted
wirele
ss
LAN
contr
ollers
Mana
geme
nt
proto
col

Management and Maintenance	Wireless Intelligent AI Optimization Service (WIS)
	SNMP
	Syslog / Debug


FAT/
FIT/M
ACC
mode
switc
hing

P840-I
adio dual-band： 1: 2.4G 11n: 2×2 MIMO 2: 5G 11ax: 4x4 MIMO
rts standard 802.11ax, dual-radio dual-band, concurrent 802.11ax and a/b/g/n/ac
b/g/n ：2.4G ~ 2.483GHz a/n/ac/ax ： 5.150～5.350GHz， 5.47～5.725GHz， 5.725～5.850GHz (vary ding on different countries)
): 2×2:2 in 2.4GHz , 4×4:4 in 5GHz

um throughput of 2.4G: 400Mbps um throughput of 5G: 4.8Gbps um throughput per AP: 5.2Gbps
：BPSK@6/9Mbps，QPSK@12/18Mbps，16-QAM@24Mbps，64-)48/54Mbps ：DBPSK@1Mbps，DQPSK@2Mbps，and CCK@5.5/11Mbps OFDM：BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM A (up to 1024-QAM)

96dBm（1Mbps），-93dBm（5Mbps），-89dBm（11Mbps）

: -91dBm（6Mbps），-85dBm（24Mbps），-80dBm（36Mbps），-
ı（54Mbps）

90dBm（MCS0），-70dBm（MCS7），-89dBm（MCS8），-68dBm（MCS15）

IT20：-88dBm（MCS0），-63dBm（MCS9）

IT40：-85dBm（MCS0），-60dBm（MCS9）

IT80：-82dBm（MCS0）, -57dBm（MCS9）
IT80：-82dBm（MCS0）, -57dBm（MCS9）, -52dBm（MCS11）
IT160：-80dBm（MCS0）, -49dBm（MCS11）
ıted antenna design
3dBi Bi
)0/1000M Ethernet ports (The LAN1 Port supports PoE in, LAN3 Port supports IoT module expansion with PoE out)
ole port

2.0 port
rt
rt
indicator (Supports red, green, blue, orange and flashing mode, which indicates access. The indicator can be switched off to silent mode.)
w（20dBm） (vary depending on different countries)

ɔower supply (DC 48V/1A) (DC Power adapters should be purchased from third-endors separately if needed.)
(802.3at)
:02.3af) – Not recommended: 5G radio is degraded to 2x2 MIMO, and the PoE out _AN3/ IoT port is disabled
W
:ing Temperature: -10°C to 50°C
e Temperature: -40°C to 70°C

ing Humidity: 5% to 95% (non-condensing)
e Humidity: 5% to 95% (non-condensing)
/wall-mountable
n ×220mm x48.85mm（Height of the AP only, excluding the mount kit）
0 hours
3, EN/IEC 60950-1
4, EN301 489 032 , EN 61000, EN 55035

2311
C, EN300 328, EN301 893
1024 (Recommended Clients: 64)
Up to 32
Support
Support

Support

Support

Support
Support
SSID/radio-based
STA/SSID/AP-based bandwidth control

WPA（TKIP）, WPA-PSK, WPA2（AES）, WPA3, WEP（64/128 bits）
Support
Support (require wireless controller)
Support

Support
Whitelist, static/dynamic blacklist
Support
Support
Support
Support
Support

Support
Support
Multicast to unicast conversion
DHCP Snooping, Option 82, Server, Client

Ruijie WS Series Wireless Controller Ruijie MACC-Base Software Controller Ruijie Cloud (Public Cloud)
Telnet, SSH, TFTP, Web

Support
SNMPV1,V2c,V3
Support

Factory default firmware supports FAT (standalone) or FIT mode (WS controller) or MACC mode (Ruijie MACC-Base or Ruijie Cloud) management