Ruijie X-Sense

Wireless Access Point Series Datasheet

Onboard with Ruijie's highly acclaimed Smart Antenna, the X-Sense AP Series is collection of wireless access points ideal for any indoor applications. Regardless of the location of smart device, the X-Sense Smart Antenna customizes and aligns the best signal path to achieve full wireless coverage. The RG-AP520-I(G2) AP in the series exclusively supports Statellite AP expansion to deliver a breakthrough 2.3Gbps performance. The 802.11ac AP pair powers a quad-radio, dual-band design, offering a one-stop-shop solution for coverage and capacity enhancement. The RG-AP520(DA) AP, another featured product in the X-Sense Series, is specially designed for best-in-class wireless coverage in large-scale venues. All models in the X-Sense AP Series support security, radio frequency (RF) control, mobile access, Quality of Service (QoS) and seamless roaming. Teaming up with Ruijie RG-WS Wireless Controller Series, wireless data forwarding, highperformance security and access control can be accomplished with ease.

HIGHLIGHTS

- IEEE 11ac Standard, up to 2.3Gbps
- Patented "X-Sense" Smart Antenna and X-speed Anti-interference Technology
- Industry's 1st Satellite AP Design with Quad-radio Support for High-density Environments
- Flexible Antenna Design with Omni or Directional Integrated Antenna Options
- Flexible Switching between FAT & FIT Modes
- 200+ Concurrent Users Support

AP320-I

600M 802.11n
2 Spatial Streams

AP520-I

867M 802.11ac
300M 802.11n
"X-Sense 3" Antenna

AP520-I(G2)

867M 802.11ac
300M 802.11n
≥2.3Gbps with Satellite AP expansion
"X-Sense 3" Antenna

AP520(DA)

867M 802.11ac
300M 802.11n
Directional Antenna

AP530-I

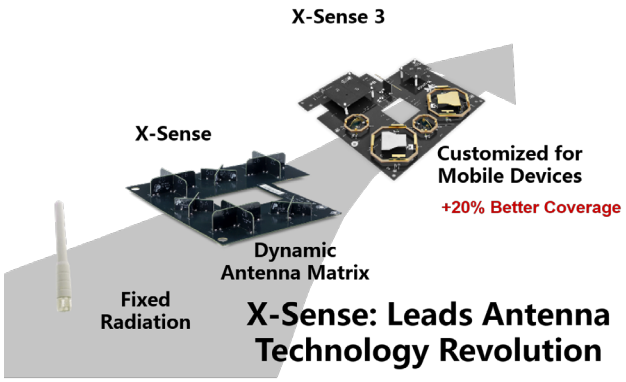
1300M 802.11ac
600M 802.11n
3 Spatial Streams

PRODUCT FEATURES

Smart Wireless Coverage

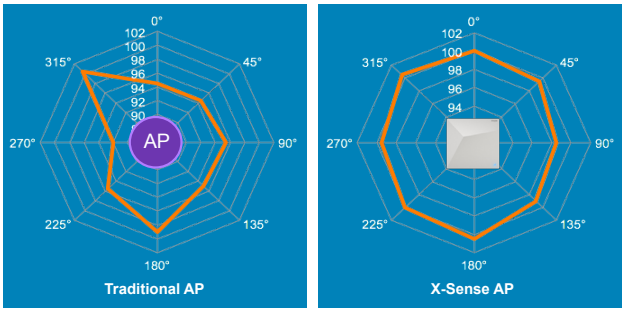
Leading “X-Sense 3” Smart Antenna

The RG-AP520-I and RG-AP520-I(G2) APs implement the latest “X-Sense 3” Smart Antenna. The antenna deploys vertical polarization and horizontal polarization antenna arrays. The APs select the most suitable antenna type based on the end devices. An optimal signal experience is ensured with ease regardless of how the end device is placed. Ruijie has greatly improved the antenna design especially targeting the 5GHz band. The emission unit for each direction is constructed with one main oscillator and multiple lead oscillators. In comparison with traditional smart antenna, the “X-Sense 3” wireless gain has improved more than 5dB with a market-leading 5GHz coverage performance. Even when users are far away from the AP, they can still enjoy the 802.11ac benefits offered by the AP.



“X-Sense 3” Smart Antenna

In the “X-Sense 3” Smart Antenna matrix architecture, the RG-AP520-I(G2) AP with 12 built-in array antennas dynamically selects up to 4,096 different antenna combinations and effectively solves the weakness of coverage dead zones of traditional antennas. Regardless of the location of smart device, the “X-Sense 3” Smart Antenna customizes and aligns the best signal path to achieve full coverage.



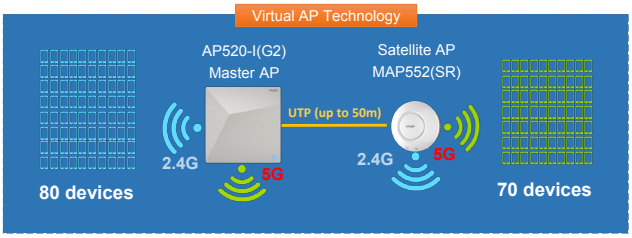
Comparison of Traditional Antenna and X-Sense Smart Antenna Coverage

802.11ac Gigabit Access

The X-Sense AP Series supports next-gen Wi-Fi standard 802.11ac (except RG-AP320-I) and enables access rates to up to 867Mbps@5GHz. When the dual bands operate simultaneously, the AP achieves an ultra-fast speed of up to 1.167Gbps. Comparing to the conventional 802.11n standard, the throughput is greatly enhanced by 94.5%.

Exclusive Satellite AP Expansion

The RG-AP520-I(G2) model delivers unmatched scalability by supporting AP expansion. By gearing up with Satellite AP RG-MAP552(SR), the pair powers a quad-radio, dual-band design and supports up to 300Mbps@2.4GHz (802.11b/g/n) and 867Mbps@5GHz (802.11a/n/ac). The 802.11ac APs together deliver a breakthrough 2.3Gbps performance for indoor wireless scenarios. Onboard with the latest “X-Sense 3” Antenna, the RG-AP520-I(G2) (or referred as Master AP) offers 2 10/100/1000BASE-T uplinks (support PoE and Satellite AP expansion respectively) and 1 USB 2.0 interface (reserved for flexible scalability). The Satellite AP, acting as an expansion accessory for the Master AP, effectively boosts access capacity and requires neither external power supply nor AP license for minimized total cost of ownership. The AP pair offers a one-stop-shop solution for coverage and capacity enhancement.



Satellite AP can support 70 additional devices
Cost Effective, Zero Interference

RG-AP520-I(G2) Boosts Performance by Satellite AP Expansion

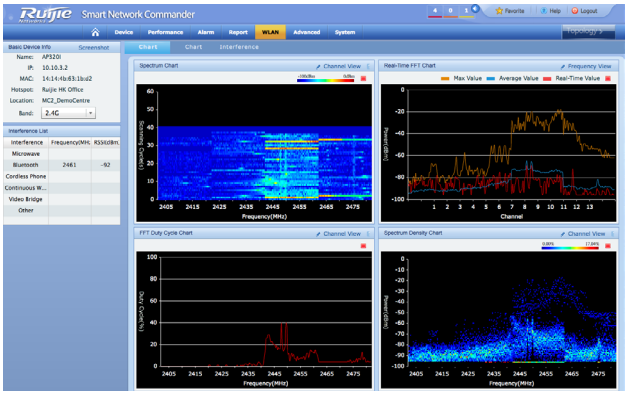
Top Coverage for Large Area

The RG-AP520(DA) AP is another featured model in the X-Sense Series. The AP is especially designed to power large area coverage such as convention centers or stadiums with high ceilings. Built-in with directional antenna, the RG-AP520(DA) AP mounted at heights enables wireless coverage for a designated area without weak signal performance or inter-AP interference. Together with the interference optimization by software, the AP further enhances user experience at large-scale deployment sites. The RG-AP520(DA) AP by default comes with a non-adjustable mounting bracket for quick installation and lower deployment costs. The AP supports ceiling, wall or pole mounting. For extra flexibility, an optional adjustable bracket is available for refined horizontal or vertical direction tuning. The adjustable bracket is an accessory sold separately.

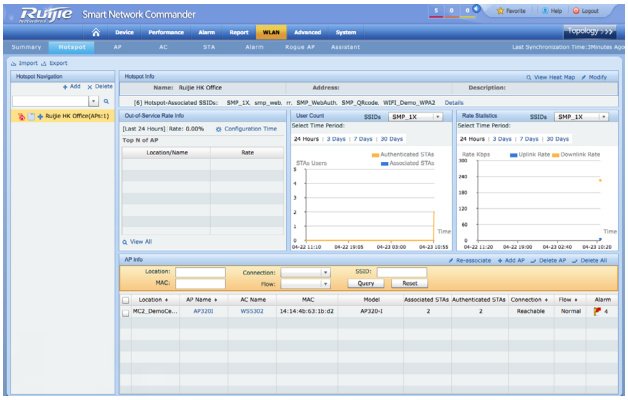
Unified Wired and Wireless Management

The X-Sense AP Series supports integration with Ruijie’s RG-SNC Smart Network Commander (sold separately) to achieve unified network management. The RG-SNC software offers the latest RG-SNC-WLAN module to achieve centralized management of

wireless devices. It supports real-time topology display of wireless device operation status, hotspot-based statistical analysis and management on APs and unified management for wireless controllers, FIT APs and end users. It is enriched with real-time spectrum analysis including spectrum chart, duty cycle diagram and real-time FFT chart.



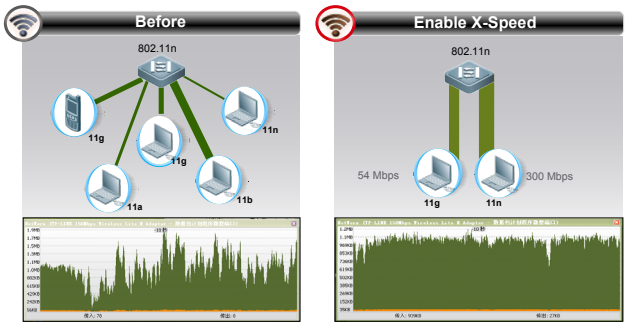
RG-SNC Graphical Display



RG-SNC Hotspot Management Display

X-speed Wireless Experience

X-speed allows Ruijie APs to seize the best channel resources in environments with severe interference comparing with other APs. The X-Sense AP Series hence offers equal access time for smart devices running different standards such as 802.11g, 802.11n, 802.11ac, etc. The feature solves the problems such as high latency and low network speed caused by use of an old wireless LAN card which is far away from the AP. The X-Sense AP Series ensures a fair high-speed wireless network for all users with any devices anywhere and anytime.



X-speed Technology Gives Wireless Performance a Strong Boost

Industry-leading Local Forwarding Technology

Employing an industry-leading local forwarding technology, the X-Sense AP Series eliminates the traffic bottleneck of ACs. In collaboration with Ruijie RG-WS Wireless Controller Series, users can flexibly pre-set a forwarding mode for the APs. The APs can determine whether to forward data to the AC according to a SSID or user VLAN, or directly send the data to a wired network for data exchange.

The local forwarding technology can forward large-scale, delay-sensitive and real-time transmission data through the wired network. The feature significantly alleviates the traffic pressure on the wireless controllers and better fulfills the high traffic transmission requirements of 802.11ac network.

Abundant QoS Policies

The X-Sense AP Series supports an extensive array of QoS policies. For example, it provides bandwidth limitations in WLAN/AP/STA modes and Wi-Fi multimedia (WMM) that defines different priorities for different service data. The X-Sense AP Series realizes timely and quantitative transmission of audio and video and guarantees smooth operation of multi-media applications.

With the multicast-to-unicast conversion technology, the X-Sense AP Series resolves the video interruption problem due to packet loss or long delay in the wireless Video on Demand (VoD) system. The X-Sense AP Series highly enhances user experience with multicast video over wireless networks.

Comprehensive Security Protection

Advanced Wireless Security Protection

Together with Ruijie's RG-SNC Smart Network Commander and RG-WS Wireless Controllers, the X-Sense AP Series provides a powerful range of wireless security features, such as Wireless Intrusion Detection System (WIDS), RF Interference Location, Rogue AP Countermeasures, Anti-ARP Spoofing, and DHCP. The AP offers a truly secure and reliable wireless network.

Multiple Easy-to-use Authentication Modes

The X-Sense AP Series supports convenient Protected Extensible Authentication Protocol (PEAP), Web Portal Authentication, SMS Authentication, and QR Code Authentication[1].

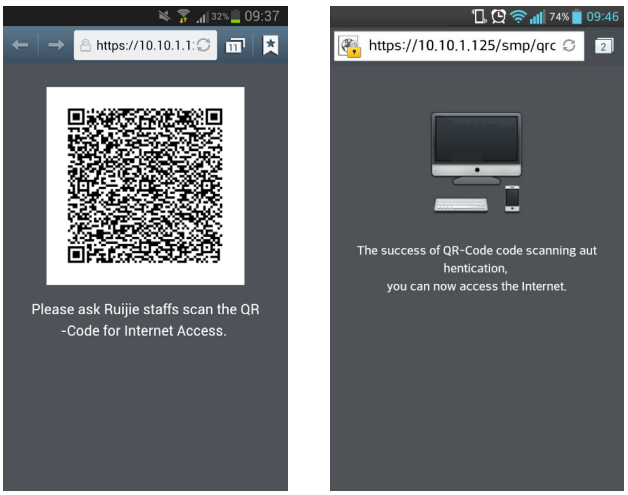
If users are authenticated via PEAP, they just need to perform password authentication for once. That means they are only required to enter user credentials during their first network visit.

If users are authenticated via SMS, they need to sign in first with their mobile phone numbers and then obtain usernames and passwords from the SMS sent to their mobile phones.

QR code authentication is another wireless security highlight. After accessing a wireless network, users will obtain a QR code and need to get it scanned by any authorized staff's mobile phones to gain network access.

Note:

[1] SMS Authentication and QR Code Authentication require collaboration with Ruijie RG-SMP Security Management Platform (sold separately).



Advanced Guest Wireless Interfaces of the QR Code Authentication

Flexible Device Management

Flexible Switching Between FAT & FIT Modes

The X-Sense AP Series supports flexible switching over the FAT and FIT modes according to the networking requirements of different industries. When there are few APs, users can adopt the FAT mode for easy, independent network establishment. For large-scale networks, the X-Sense AP Series can operate at FIT mode and works with RG-WS ACs to allow centralized management of all the APs and other aspects such as security, traffic management, QoS and IP management. Smooth transition from one mode to another, the X-Sense AP Series fully protects user investment.

Simple Deployment With Zero Configuration

Under the FIT mode, no configuration is required for the X-Sense AP Series before deployment. Also, no manual configuration is necessary for on-site installation, maintenance or replacement. Download and auto implementation of AP configuration can all be completed via the AC. This user-friendly feature remarkably reduces installation and maintenance workload as well as investment costs.

PoE Port For Easy Deployment & Maintenance

In addition to local power supply, the X-Sense AP Series also supports the 802.3af/802.3at PoE standard. With PoE switch or PoE power adapter, a single Ethernet cable can provide both data connection and electrical power to the AP. The network administrator can remotely control the devices. It also solves the problem of unstable power source, hence simplifying the installation process and maximizing the cost savings.

TECHNICAL SPECIFICATIONS

Model	RG-AP320-I	RG-AP530-I	RG-AP520-I	RG-AP520-I(G2)	RG-AP520(DA)
Radio	Concurrent dual-band dual-radio				
Protocol	802.11a/b/g/n	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac
Operating Bands	802.11b/g/n: 2.4GHz to 2.483GHz 802.11a/n/ac: 5.150GHz to 5.350GHz, 5.47GHz to 5.725GHz, 5.725GHz to 5.850GHz * For AP320-I, only 802.11a/n are supported. (vary depending on countries)				
Antenna	Built-in X-Sense Smart Antenna array with 16 antennas and 65,536 antenna combinations 2×2 MIMO	Built-in X-Sense Smart Antenna array with 24 antennas and 16.7 million antenna combinations 3×3 MIMO	Built-in "X-Sense 3" Smart Antenna (Up to 16-direction smart antennas with 65,536 antenna combinations) 2×2 MIMO	Built-in "X-Sense 3" Smart Antenna (Up to 12-direction smart antennas with 4,096 antenna combinations) 2.4G: 2×2 MIMO 5G: 2×3 MIMO	Built-in X-Sense Directional Antenna 2×2 MIMO
Spatial Streams	2	3	2	2	2
Max Throughput	300Mbps per radio 600Mbps per AP	600Mbps @2.4GHz 1300Mbps @5GHz 1.9Gbps per AP	300Mbps @2.4GHz 867Mbps@5GHz 1.167Gbps per AP	300Mbps @2.4GHz 867Mbps@5GHz 1.167Gbps per AP ≥2.3Gbps per AP pair	300Mbps @2.4GHz 867Mbps@5GHz 1.167Gbps per AP

Model	RG-AP320-I	RG-AP530-I	RG-AP520-I	RG-AP520-I(G2)	RG-AP520(DA)
Modulation	OFDM: BPSK@6/9Mbps QPSK @12/18Mbps 16-QAM @24Mbps 64-QAM @48/54Mbps DSSS: DBPSK@1Mbps DQPSK@2Mbps CCK @5.5/11Mbps MIMO-OFDM: MCS 0-15	OFDM: BPSK@6/9Mbps QPSK @12/18Mbps 16-QAM @24Mbps 64-QAM @48/54Mbps DSSS: DBPSK@1Mbps DQPSK@2Mbps CCK @5.5/11Mbps MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM and 256QAM	OFDM: BPSK@6/9Mbps QPSK @12/18Mbps 16-QAM @24Mbps 64-QAM @48/54Mbps DSSS: DBPSK@1Mbps DQPSK@2Mbps CCK @5.5/11Mbps MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM and 256QAM	OFDM: BPSK@6/9Mbps QPSK @12/18Mbps 16-QAM @24Mbps 64-QAM @48/54Mbps DSSS: DBPSK@1Mbps DQPSK@2Mbps CCK @5.5/11Mbps MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM and 256QAM	OFDM: BPSK@6/9Mbps QPSK @12/18Mbps 16-QAM @24Mbps 64-QAM @48/54Mbps DSSS: DBPSK@1Mbps DQPSK@2Mbps CCK @5.5/11Mbps MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM and 256QAM
Receiver Sensitivity	11b: -99dBm(1Mbps), -93dBm (5.5Mbps), -90dBm(11Mbps) 11a/g: -93dBm(6Mbps), -85dBm (24Mbps), -82dBm (36Mbps), -77dBm (54Mbps) 11n: -92dBm@MCS0, -74dBm@MCS7, -92dBm@MCS8, -73dBm@ MCS15	11b: -99dBm(1Mbps), -93dBm (5.5Mbps), -90dBm(11Mbps) 11a/g: -93dBm(6Mbps), -85dBm (24Mbps), -82dBm (36Mbps), -77dBm (54Mbps) 11n: -92dBm@MCS0, -74dBm@MCS7, -92dBm@MCS8, -73dBm@ MCS15 11ac HT20: -88dBm (MCS0), -63dBm (MCS9) 11ac HT40: -85dBm (MCS0), -60dBm (MCS9) 11ac HT80: -82dBm (MCS0), -57dBm (MCS9)	11b: -99dBm(1Mbps), -93dBm (5.5Mbps), -90dBm(11Mbps) 11a/g: -93dBm(6Mbps), -85dBm (24Mbps), -82dBm (36Mbps), -77dBm (54Mbps) 11n: -92dBm@MCS0, -74dBm@MCS7, -92dBm@MCS8, -73dBm@ MCS15 11ac HT20: -90dBm (MCS0), -63dBm (MCS9) 11ac HT80: -82dBm (MCS0), -58dBm (MCS9)	11b: -99dBm(1Mbps), -93dBm (5.5Mbps), -90dBm(11Mbps) 11a/g: -93dBm(6Mbps), -85dBm (24Mbps), -82dBm (36Mbps), -77dBm (54Mbps) 11n: -92dBm@MCS0, -74dBm@MCS7, -92dBm@MCS8, -73dBm@ MCS15 11ac HT20: -90dBm (MCS0), -63dBm (MCS9) 11ac HT40: -85dBm (MCS0), -60dBm (MCS9) 11ac HT80: -82dBm (MCS0), -58dBm (MCS9)	11b: -99dBm(1Mbps), -93dBm (5.5Mbps), -90dBm(11Mbps) 11a/g: -93dBm(6Mbps), -85dBm (24Mbps), -82dBm (36Mbps), -77dBm (54Mbps) 11n: -92dBm@MCS0, -74dBm@MCS7, -92dBm@MCS8, -73dBm@ MCS15 11ac HT20: -90dBm (MCS0), -63dBm (MCS9) 11ac HT40: -85dBm (MCS0), -60dBm (MCS9) 11ac HT80: -82dBm (MCS0), -58dBm (MCS9)
Transmit Power	≤100mW (20dBm, transmit power of the RF card only)				
Adjustable Power	1dBm				

Model		RG-AP320-I	RG-AP530-I	RG-AP520-I	RG-AP520-I(G2)	RG-AP520(DA)
Service Ports		1 10/100/1000 BASE-T Ethernet uplink port (PoE)	2 10/100/1000 BASE-T Ethernet uplink ports (PoE)	2 10/100/1000 BASE-T Ethernet uplink ports (supports LAG, LAN1 supports PoE) 1 USB 2.0 port	2 10/100/1000 BASE-T Ethernet uplink ports 1 USB 2.0 port	2 10/100/1000 BASE-T Ethernet uplink ports (one supports PoE) 1 USB 2.0 port
Management Port		1 console port				
Lock		Support				
LED Indicator		1 LED (red, green, blue, orange, and flashing modes, breathing flashing mode for smart device access, and the indicator can be switched off to silent mode)	1 LED (red, green, blue, orange, and flashing modes, breathing flashing mode for smart device access, and the indicator can be switched off to silent mode)	1 LED (red, green, blue, orange, and flashing modes, breathing flashing mode for smart device access, and the indicator can be switched off to silent mode)	1 LED (red, green, blue, orange, and flashing modes, breathing flashing mode for smart device access, and the indicator can be switched off to silent mode)	3 status indicators (device, Ethernet and power)
IP Rating		IP41				
Safety Standard		GB4943, EN/IEC 60950-1				
EMC Standard		GB9254, EN301 489	GB9254, EN301 489	GB9254, EN301 489	GB9254, GB17618, EN301 489-1, EN301 489-17, EN55022, EN55024	GB9254, EN301 489
Health Standard		EN 62311				
Radio Standard		EN300 328, EN301 893				
Vibration Standard		IEC60068-2-31, ETSI EN300 019, NEBS GR-63-CORE				
Wi-Fi Alliance Certification		Support				
WLAN	Maximum stations per AP	256				
	Virtual AP	A maximum of 32 SSIDs				
	SSID hiding	Support				
	Configuring the authentication mode, encryption mechanism, and VLAN attributes for each SSID	Support				
	WDS (bridge mode)	Support				
	Remote Intelligent Perception Technology (RIPT)	Support				

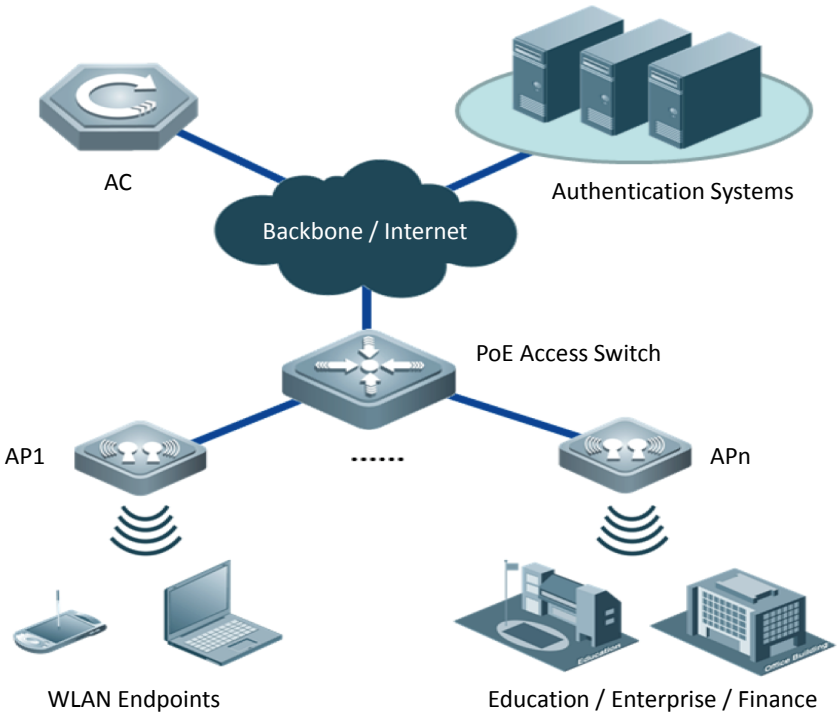
Model		RG-AP320-I	RG-AP530-I	RG-AP520-I	RG-AP520-I(G2)	RG-AP520(DA)
WLAN	X-speed	Support				
	Intelligent identification of smart device	Support				
	Intelligent load balancing based on the number of users or traffic	Support				
	STA control	SSID/radio-based				
	Bandwidth control	STA/SSID/AP-based speed control				
	Preference for 5GHz (band select)	Support				
	Wireless location	Support				
Security	PSK, Web, and 802.1x authentication	Support				
	Data encryption	WPA(TKIP), WPA2 (AES), WPA-PSK, and WEP (64 or 128 bits)				
	WeChat authentication	Support				
	QR code authentication	Support				
	SMS authentication	Support				
	PEAP authentication	Support				
	Data frame filtering	Whitelist, static/ dynamic blacklist				
	User isolation	Support				
	Rogue AP detection and countermeasure	Support				
	Dynamic ACL assignment	Support				
	WAPI	Support				
	RADIUS	Support				
	CPU Protection Policy (CPP)	Support				
	Network Foundation Protection Policy (NFPP)	Support				
	WIDS (Wireless Intrusion Detection System)	Support				
	Remote probe	Support				
Wi-Fi Probe	Wi-Fi Probe	Support				
Routing	IPv4 address	Static IP address or DHCP reservation				
	IPv6 CAPWAP tunnel	Support				

Model		RG-AP320-I	RG-AP530-I	RG-AP520-I	RG-AP520-I(G2)	RG-AP520(DA)
Routing	ICMPv6	Support				
	IPv6 address	Manual or automatic configuration				
	IPv6 tunnel	Manual or automatic configuration				
	IPv6 transparent transmission	Support				
	ISATAP	Support				
	Multicast	Multicast to unicast conversion				
Wireless Position Tracking	Network tracking	Support				
	Endpoint tracking	Support				
Management and Maintenance	Network management	SNMP v1/v2C/v3, Telnet, SSH, TFTP, and FTP and Web management				
	Visualized wireless heat map analysis	Support				
	Real-time spectrum analysis	Support				
	Fault detection and alarm	Support				
	One-click collection of device operating status	Support				
	Cloud AC management	Support				
	Statistics and logs	Support				
	FAT/FIT switching	The AP working in FIT mode can switch to the FAT mode through the RG-WS wireless AC. The AP working in FAT mode can switch to the FIT mode through a local console port or Telnet.				
Dimensions (W x D x H) (mm) (Height of AP only, excluding case and mount kit)		205 × 205 × 42	220 × 220 × 42	205 × 205 × 42	205 × 205 × 42	205 × 205 × 42
Weight		0.7kg	1.5kg	0.8kg	0.8kg	0.7kg
Installation Mode		Ceiling/ wall-mountable	Ceiling/ wall-mountable	Ceiling/ wall-mountable	Ceiling/ wall-mountable	Ceiling/wall-mountable/rod installation (Adjustable bracket sold separately)
Power Supply		Local power supply and PoE (802.3af)	Local power supply and PoE+ (802.3at)	Local power supply and PoE (802.3af)	Local power supply (DC 48V) and PoE (802.3at)	Local power supply (DC 48V) and PoE (802.3af/802.3at)
Power Consumption		10.5W	<19W	<12.95W	<12.95W	<12.95W
Temperature		Operating Temperature: 0°C to 45°C				
		Storage Temperature: -40°C to 70°C				
Humidity		Operating Humidity: 5% to 95% (non-condensing)				
		Storage Humidity: 5% to 95% (non-condensing)				

TYPICAL APPLICATION

The X-Sense AP Series is an ideal match for spacious buildings densely with high end user density, such as meeting rooms, libraries, classrooms, bars, and recreation centers. Clients can deploy the devices flexibly according to their needs.

Typical topology diagram for the X-Sense AP Series:



ORDERING INFORMATION

Model	Description
RG-AP320-I	Indoor Wireless Access Point, built-in X-Sense Smart Antenna, dual-radio, dual-band, 2 spatial streams, access rate up to 600Mbps per AP, support concurrent 802.11a/n and 802.11b/g/n, FAT/FIT modes, 1 10/100/1000BASE-T uplink port, support PoE and local power supply (PoE and local power adapters sold separately)
RG-AP530-I	Indoor Wireless Access Point, built-in X-Sense Smart Antenna, dual-radio, dual-band, 3 spatial streams, access rate up to 1.9Gbps per AP, support concurrent 802.11ac and 802.11a/b/g/n, FAT/FIT modes, 2 10/100/1000BASE-T uplink ports, support PoE and local power supply (PoE and local power adapters sold separately)
RG-AP520-I	Indoor Wireless Access Point, built-in “X-Sense 3” Smart Antenna, dual-radio, dual-band, 2 spatial streams, access rate up to 1.167Gbps per AP, support concurrent 802.11a/n/ac and 802.11b/g/n, FAT/FIT modes, 2 10/100/1000BASE-T uplink ports, 1 USB 2.0 port, support PoE and local power supply (PoE and local power adapters sold separately)
RG-AP520-I(G2)	Indoor Wireless Access Point, built-in “X-Sense 3” Smart Antenna, dual-radio, dual-band, 2 spatial streams, up to 1.167Gbps per AP, support concurrent 802.11a/n/ac and 802.11b/g/n, FAT/FIT modes, 2 10/100/1000BASE-T uplink ports, 1 USB 2.0 port, support PoE and local power supply (PoE and local power adapters sold separately)

Model	Description
RG-AP520-I(G2)	*Support expansion with Satellite AP RG-MAP552(SR), up to 2.3Gbps per AP pair, please refer to Ruijie RG-AP520-I(SR) Satellite AP Solution datasheet for more details
RG-AP520(DA)	Indoor Wireless Access Point, built-in X-Sense Directional Antenna, dual-radio, dual-band, 2 spatial streams, up to 1.167Gbps per AP, support concurrent 802.11a/n/ac and 802.11b/g/n, FAT/FIT modes, 2 10/100/1000BASE-T uplink ports, 1 USB 2.0 port, support PoE and local power supply, non-adjustable mounting bracket included by default (Adjustable bracket, PoE and local power adapters sold separately)
Optional Accessories	
RG-MAP552(SR)	Satellite AP for RG-AP520-I(G2), dual-band, dual-stream, up to 1.167Gbps per AP, support concurrent 802.11ac and 802.11a/b/g/n, connect to RG-AP520-I(G2) via a 10/100/1000BASE-T uplink port for advanced functions such as dead zone compensation, position tracking and spectrum probe
RG-AP520(DA)-bracket	Adjustable Mounting Bracket for RG-AP520(DA) AP, support direction adjustment (horizontal 60°, vertical 90°) for ceiling, wall or pole mounting
Optional Solution Components	
RG-SMP Security Management Platform	
RG-SMP-Pro-EN	RG-SMP 2.X professional edition, supports RADIUS identity authentication, including BYOD and NAC features Software requirements for SMP: • Windows Server 2003 or above • SQL Server 2000 or above
RG-SMP-Pro-EN-License-50	Concurrent User License for RG-SMP 2.X professional edition, includes permission for 50 concurrent users
RG-SNC Smart Network Commander	
RG-SNC-Pro-Base-EN	Basic Component of Smart Network Commander
RG-SNC-Pro-Topo-EN	Topology Management Component of Smart Network Commander
RG-SNC-Pro-WLAN-EN	WLAN Component of Smart Network Commander
RG-SNC-Pro-EN-License-15	SNC License for 15 Nodes
RG-SNC-Pro-EN-License -25	SNC License for 25 Nodes
RG-SNC-Pro-EN-License-50	SNC License for 50 Nodes
RG-SNC-Pro-EN-License-100	SNC License for 100 Nodes
RG-SNC-Pro-EN-License-200	SNC License for 200 Nodes
RG-SNC-Pro-EN-License-500	SNC License for 500 Nodes
RG-SNC-Pro-EN-License-1000	SNC License for 1000 Nodes
RG-SNC-WLAN	Wireless Management Component of Smart Network Commander. Work with Base and Topo components. Node not included

Model	Description
RG-SNC-WLAN-License-50	SNC-WLAN License for 50 FIT APs
RG-SNC-WLAN-License-100	SNC-WLAN License for 100 FIT APs
RG-SNC-WLAN-License-200	SNC-WLAN License for 200 FIT APs
RG-SNC-WLAN-License-500	SNC-WLAN License for 500 FIT APs
RG-SNC-WLAN-License-1000	SNC-WLAN License for 1000 FIT APs
RG-SNC-WLAN-License-2000	SNC-WLAN License for 2000 FIT APs
RG-SNC-WLAN-License-5000	SNC-WLAN License for 5000 FIT APs

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