

RG-AP630

Outdoor Wireless Access Point Series Datasheet

Ruijie RG-AP630 Series is a family of top-class 802.11ac wireless access points for next-gen high-speed wireless network applications. The RG-AP630 Series consists of 4 models—RG-AP630(IDA), RG-AP630(IDA2), RG-AP630(IDDA) and RG-AP630(CD).

The RG-AP630 (IDA)/(IODA) offer access rates up to 1.75 Gbps, the RG-AP630(IDA2) supports 2.533Gbps access rate and the RG-AP630(CD) supports 1.167Gbps access rate. The RG-AP630 Series takes full care of security, RF control, mobile access, QoS, seamless roaming and other Wi-Fi aspects. Teaming up with Ruijie RG-WS Wireless Controller Series/

HIGHLIGHTS

- 802.11ac/802.11ac
 Wave 2 Superior Wireless
 Performance
- Built-in Smart Antenna & Lightning Arrester
- Outstanding Environmental Adaptability (IP67, -40-55°C)
- Unique PoE OUT Design

Cloud AC, the APs offer Wi-Fi user data forwarding, advanced security and access control with ease.

The industrial-class AP enclosure (IP67 rated) can withstand extreme outdoor conditions and hence simplify device installation and maintenance. The RG-AP630(IDA)/(IDA2) is built-in with directional antenna while the RG-AP630(IODA) offers internal omnidirectional antenna. An extensive collection of external antennas is also available to overcome various deployment challenges. Both AP models support automatic switching between the external and internal antennas. RG-AP630 (CD), equipped with built-in directional antenna, can achieve the outdoor Wi-Fi coverage under extreme outdoor conditions in vast majority of the scenarios. In addition, the RG-AP630(IDA)/(IODA) uniquely support a PoE OUT interface of 802.3at standard, facilitating streamlined integration with other monitoring devices for high-quality, real-time transmission of surveillance data. The PoE deployment makes the APs more adaptive to outdoor scenarios such as large campuses, enterprises, hospitals, commercial towers and settings alike. Multi-hop and point-to-multipoint wireless bridge features further enhance the deployment flexibility. The RG-AP630 Outdoor AP Series thereby offers unparalleled productivity in a wide variety of outdoor networking solutions.





Outdoor Antennas (from left to right):

RG-ANTx3-2400D, RG-ANTx3-5800D & RG-ANTx3-2400&5800(O)

PRODUCT FEATURES

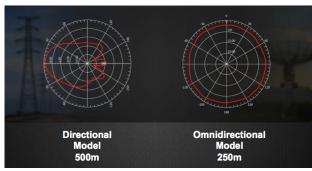
High Performance & Reliability

802.11ac Superior Wireless Performance

The RG-AP630 Series supports 802.11n@2.4GHz and 802.11ac@5GHz, with RG-AP630(IDA)/(IODA) offering access rates of up to 1.75Gbps, RG-AP630(IDA2) up to 2.533Gbps and RG-630(CD) up to 1.167Gbps. The outstanding wireless performance greatly optimizes wireless user experience, increases the number of concurrent users and enhances signal coverage.

Built-in Smart Antenna of AP630(IDA)/(IDA2) (IODA)

Equipped with built-in antenna, the RG-AP630 Series can achieve a real-time antenna beam switching based on the location of access devices, ensuring optimal wireless experience. The APs also support switching of internal and external antennas to flexibly adapt to any deployment scenarios.



Built-in Directional and Omnidirectional Antennas of AP630

The Industry's Most Flexible Gigabit Uplink

The RG-AP630 Series offers a 10/100/1000Base-T Ethernet uplink port that rids the LAN port of being the wireless access bottleneck, and a 1000M SFP combo port that adapts to wired networking structure under different user scenarios. The SFP Base-X port takes up the data transmission workload for optimal network deployment.

Unique PoE OUT Design

By supporting a unique PoE OUT design, RG-AP630(IDA)/(IODA) can directly provide power to video surveillance equipment at the deployment location. The surveillance video data can be transmitted back to the control room in real time via the wired or wireless network. This feature not only reduces the difficulty of surveillance device installation, but also lowers the cost on new cabling. When deployed with HPoE switch, the ETH2/PoE OUT port of RG-AP630(IDA)/(IODA) can power other PD devices that support the 802.3at/af standards, and enable the data to be transmitted back to the AP uplink port.



PoE OUT Design of AP630(IDA)/(IODA)

Hardware Highlights



RG-AP630(IODA)

Interfaces

- 1. Console Port
- 2. 10/100/1000Mbps ETH2/PoE OUT Port
- 3. 10/100/1000Mbps ETH1/PoE IN Port
- 4. SFP Port (Combo with ETH1)
- 5. 3 2.4GHz N-K Type RF Connectors
- 6. 3 5GHz N-K Type RF Connectors

Easy-to-use Mount-Kit

An adjustable mount-kit is available by default for painless deployment optimization. The APs can be easily adjusted -60° to 60° horizontally and -60° to 90° vertically to adapt to various scenarios.





Adjustable Mount-kit of AP630

All-in-one Package for Painless Deployment

The RG-AP630 Outdoor AP Series offers you a one-stop installation package. Everything you need is included, from external antennas to lightning arresters and coaxial cables, for effortless outdoor deployment.



RG-AP630 built-in with Internal Antenna (optional external antenna) & Lightning Arrester

All-in-one Installation Package

Flexible WDS Mode

The APs implement WDS (Wireless Distribution System) to support interconnection of multiple APs or wireless bridging under 5 hops. Wireless bridging can be achieved even for a long distance. The outdoor APs also support point-to-multipoint bridging (CPE application scenarios) for more flexible networking. The features get over the outdoor deployment problems to support large-scale and remote high-speed wireless coverage.

Intelligent Device Recognition

The APs support intelligent recognition of end devices running mainstream operating systems such as iOS and Android.

Industry-leading Local Forwarding Technology

Employing an industry-leading local forwarding technology, the APs eliminate the traffic bottleneck of wireless access controllers. Deploying with the Ruijie RG-WS Wireless Controller Series, users can flexibly pre-configure the data-forwarding mode of the outdoor APs. The APs also control if the data will be forwarded via the wireless controller. The local forwarding technology can forward large-scale, delay-sensitive, and real-time transmission data to greatly alleviate the traffic pressure on the wireless LAN controllers and fulfill the high traffic transmission requirements of the 802.11ac network.

Seamless Roaming Experience

The APs team up with the RG-WS Wireless Controllers in perfect harmony, allowing wireless users to roam seamlessly on Layer 2 and Layer 3 networks without data interruption.

Abundant QoS Policies

The AP supports a wide range of QoS policies. For example, it provides WLAN/AP/STA-based bandwidth limitation modes that prioritize key services over others.

Outstanding Environmental Adaptability

The outdoor APs offer an IP67-rated enclosure that fulfills waterproof, dustproof, moisture-proof and flame retardant requirements to withstand harsh environments such as wind erosion, rain and high humidity. The features greatly lengthen the equipment life span and effectively reduce the maintenance cost.

Wide Operating Temperature Range

All the AP components and enclosures can withstand a wide temperature range from -40°C to 55°C without any influence on the stability and life span. The design ensures the metal components cool down efficiently at high temperatures. The built-in heater module guarantees stable operation under freezing conditions

Comprehensive Security Policies

User Data Encryption

The outdoor APs offer protected Wi-Fi access with the support of cutting-edge encryption technologies such as WEP, TKIP and AES, guaranteeing the data transmission security of the wireless network.

Virtual AP Technology

With the virtual AP technology, the AP can offer up to 16 ESSIDs (per radio) and 16 802.1Q VLANs. The network administrator can separately encrypt and isolate subnets or VLANs that have the same SSID. A separate authentication mode and encryption mechanism for each SSID can also be configured flexibly.

Standard CAPWAP Encryption

CAPWAP (Control and Provisioning of Wireless Access Points) enables communication between RG-WS Wireless Controllers and the outdoor APs. The standard ensures secure data transmission

RF Security

In collaboration with Ruijie's RG-SNC Smart Network Commander and RG-WS Wireless Controllers, the APs enable the RF probe scanning mechanism to detect unauthorized access points or other RF interference sources. Once detected, the APs will alert network administrator to monitor potential threats and usage status in the wireless environment.

User Access Control

The APs support a wide range of authentication methods such as Web, 802.1x, MAC address and local authentication. The APs also support Ruijie's advanced Security Management Platform (SMP) BYOD Solution which complies with a standard access control system. The system has a set of control policies in terms of user access, authorization, host compliance check, network behavior monitoring, network attack defense, etc. All these control features ensure that users are authenticated before accessing the network services securely.

Wireless Protection

Together with Ruijie's RG-SNC Smart Network Commander and RG-WS Wireless Controllers, the APs provide 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 protection for a truly secure and reliable wireless network.

Wireless IPv6 Access

Comprehensive IPv6 features are available to enable IPv6 forwarding on a wireless network. Both IPv4 and IPv6 users can connect to the ACs over tunnels, enabling IPv6 applications to be borne on the wireless network.

Flexible Authentication Modes

The APs support convenient Protected Extensible Authentication Protocol (PEAP), SMS Authentication, and QR Code Authentication.

The PEAP Authentication allows users to perform password authentication for once only. That means users are only required to enter credentials during their first network visit.

If the SMS authentication is adopted, users first sign in with their mobile phone numbers and then receive an SMS with login username and password for network access.

QR code authentication is another wireless security highlight. After accessing a wireless network, users will obtain a QR code on their end devices and simply ask any authorized staff's to scan it for network access.

Flexible Device Management Mode

Flexible Switching Between the FAT & FIT Modes

The APs support 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 APs can operate in FIT mode which allows centralized

management of all the APs and other aspects such as security, traffic management, QoS and IP management when deployed with the RG-WS Wireless Controllers. Smooth transition from one to another, the APs fully protect user investment.

Simple Deployment With Zero Configuration

Under the FIT mode, no AP configuration is required before deployment. Also, no manual configuration is necessary for onsite installation, maintenance or replacement. Auto-configuration can be completed via the AC. This user-friendly feature can greatly reduce workload and investment costs.

Comprehensive Remote Management

The RG-WS Wireless Controllers or Cloud AC can remotely and centrally manage all AP operations such as channel, power ranking, SSID configuration, security configuration, VLAN division and so on. The feature enhances security and simplifies the wireless network management.

PoE Port For Easy Deployment & Maintenance

The RG-AP630(IDA)/(IDA2)/(IODA) support the 802.3at PoE standard while RG-AP630(CD) supports the 802.3af PoE standard. By connecting to a HPoE switch through the AP Ethernet port, the outdoor APs can gain power and support data transmission via cables. The network administrator can remotely perform configuration. It also solves the problem of unstable power source, simplifies the installation process and maximizes the cost savings.

TECHNICAL SPECIFICATIONS

Outdoor APs

Model		RG-AP630(IDA2)	RG-AP630(IDA)	RG-AP630(IODA)	RG-AP630(CD)	
Target Deployments		For big campus, wireless city, harbor, storage room, mine				
	Radio	Concurrent dual-radio dual-band				
Basic Specifications	Protocol	802.11a/b/g/n/ac Wave2	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 (vary depending on countries)				
	Antenna	Built-in Directional Smart Antenna (support external/ internal antenna switching)	Built-in Directional Smart Antenna (support external/ internal antenna switching)	Built-in Omnidirectional Smart Antenna (support external/ internal antenna switching)	Built-in directional antenna	
	Antenna Gain	10dBi	10dBi	4dBi	10dBi	

Model		RG-AP630(IDA2)	RG-AP630(IDA)	RG-AP630(IODA)	RG-AP630(CD)		
		Build-in					
		antenna model:					
		800Mbps@2.4G					
		1733Mbps@5G	450Mb	450Mb	000000		
	May Throughout	2.533Gbps per AP;	450Mbps@2.4GHz	450Mbps@2.4GHz	300Mbps@2.4G		
	Max Throughput	External antenna	1.3Gbps@5GHz 1.75Gbps per AP	1.3Gbps@5GHz	867Mbps@5G		
		model:	1.75Gbps per AF	1.75Gbps per AP	1.167Gbps per AP		
		400Mbps@2.4G					
		1733Mbps@5G					
		2.133Gbps per AP					
	Spatial Streams	4	3	3	2		
		OFDM: BPSK@6/9Mbps					
		QPSK@12/18Mbps					
		16-QAM@24Mbps					
Basic	Modulation	64-QAM@48/54Mbp					
Specifications		DSSS: DBPSK@1MI	ops				
		DQPSK@2Mbps					
		CCK@5.5/11Mbps	0001/ 400414 040	AAA 0500 AAA			
			, QPSK, 16QAM, 64QA				
			ı, -93dBm(5.5Mbps), -9 s), -85dBm(24Mbps), -		NPm(E4Mbna)		
			, , , , , , , , , , , , , , , , , , , ,	, ,,,	` ' '		
	Receiver Sensitivity	11n:-92dBm@MCS0, -73dBm@MCS7, -92dBm@MCS8, -73dBm@MCS15					
		11ac HT20: -90dBm (MCS0) , -63dBm (MCS9) 11ac HT40: -85dBm(MCS0) , -60dBm (MCS9)					
		11ac HT40: -82dBm(MCS0) , -58dBm (MCS9)					
		27dBm Note: The transmit power is configurable to up to 15dBm in 1dBm steps. The actual					
	Maximum Transmit						
	Power	transmit power depends on local laws and regulations.					
	Adjustable Power	1dBm					
	IP Rating	IP67					
	Ŭ .		1 10/100/1000Mbps	1 10/100/1000Mbps			
	Service Port	1 10/100/1000	ETH1/PoE IN port	ETH1/PoE IN port			
		Base-T ETH1/PoE	(RJ45 connector),	(RJ45 connector),	1 10/100/1000Mbps		
		IN port,	1 10/100/1000Mbps	1 10/100/1000Mbps	ETH1/PoE IN port		
		1 10/100/1000	ETH2/PoE	ETH2/PoE	(RJ45 connector),		
Ports		Base-T ETH2 port,	OUT port (RJ45	OUT port (RJ45	1 SFP port (combo		
		1 1000M SFP port	connector),	connector),	with EHT1)		
		(combo)	1 SFP port (combo	1 SFP port (combo			
			with ETH1)	with ETH1)			
	Management Port	1 console port (RJ45 or Bluetooth)					
Power			PoE+ (802.3at)	PoE+ (802.3at)			
			Support Ruijie	Support Ruijie	PoE (802.3af)		
	Power Supply	PoE+ (802.3at)	60W PoE	60W PoE	Compatible with		
			adaptor@PSE	adaptor@PSE	PoE+		
			(PoE OUT)	(PoE OUT)			
	Power Consumption	<25W	<25W	<25W	<12.95W		
	Maximum clients per AP	Up to 512	Up to 256	Up to 256	Up to 256		
WLAN	BSSID capacity	Up to 16 per radio					
		Up to 32 per AP					
	SSID hiding	Support					

Model		RG-AP630(IDA2)	RG-AP630(IDA)	RG-AP630(IODA)	RG-AP630(CD)		
	Configuring the						
	authentication mode,	Support					
	encryption mechanism,						
	and VLAN attributes for						
	each SSID						
	Remote Intelligent						
	Perception Technology	Support					
	(RIPT)						
	X-speed	Support					
WLAN	Intelligent load balancing						
	based on the number of	Support					
	users or traffic	OOID (see the beauty)					
	STA control	SSID/radio-based					
	Bandwidth control Preference for 5 GHz	STA/SSID/AP-based	speed control				
		Support					
	(band select) Wireless position						
	tracking	Support					
	Dynamic Frequency	Futura Palagga Supr	ort				
	Selection (DFS)	Future Release Supp	OOL				
	PSK, Web, and 802.1x	Support					
	authentication						
	Data encryption	WPA (TKIP), WPA2 (AES), WPA-PSK, and WEP (64 or 128 bits)					
	QR code authentication	Support					
	SMS authentication	Support					
	PEAP authentication	Support					
	Data frame filtering	Whitelist, static/dynamic blacklist					
	User isolation	Support					
	Rogue AP detection and	Support					
	countermeasure	Сирроп					
	Dynamic ACL	Support					
Security	assignment RADIUS	Cupport					
	CPU Protection Policy	Support					
	(CPP)	Support					
	Network Foundation						
	Protection Policy	Support					
	(NFPP)						
	Wireless Intrusion	Support					
	Detection System						
	(WIDS)						
	Wireless Intrusion	Current					
	Prevention System	Support					
	(WIPS) IPv4 address	Static IP address or DHCP reservation					
Routing							
	IPv6 CAPWAP tunnel	Support					
	ICMPv6	Support					
	IPv6 address	Manual or automatic configuration					
	ISATAP	Support		1			
	Multicast	Support	Multicast to unicast	Multicast to unicast	Multicast to unicast		
			conversion	conversion	conversion		

Model		RG-AP630(IDA2)	RG-AP630(IDA)	RG-AP630(IODA)	RG-AP630(CD)		
		SNMP v1/v2C/	SNMP v1/v2C/v3,	SNMP v1/v2C/v3,	SNMP v1/v2C/v3,		
	Network management	v3, Telnet, SSH,	Telnet, SSH, TFTP,	Telnet, SSH, TFTP,	Telnet, SSH, TFTP,		
		TFTP and web	and FTP and web	and FTP and web	and FTP and web		
		management	management	management	management		
	Visualized wireless heat map analysis	Support (needs to integrated with SNC)					
Management	Real-time spectrum	Support (needs to integrated with SNC)					
and	analysis Fault detection and	Support					
Maintenance	alarm 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.					
External	Lock	Support					
Characterisitics	LED Indicators	Power status and WI	OS signal strength				
	Wi-Fi Alliance Certification	Support					
	Certinoation		GB4943, UL/CSA	GB4943, UL/CSA	GB4943, UL/CSA		
		GB4943, EN/IEC	60950-1, EN/IEC	60950-1, EN/IEC	60950-1, EN/IEC		
	Safety Standard	60950-1, EN/IEC	60950-1, EN/IEC	60950-1, EN/IEC	60950-1, EN/IEC		
		60950-22	60950-22	60950-22	60950-22		
			GB9254-2008,	GB9254-2008,	GB9254-2008,		
Relevant		GB9254-2008,	EN301 489,	EN301 489,	EN301 489,		
Standard	EMC Standard	EN301 489,	EN55022, FCC	EN55022, FCC	EN55022, FCC		
		EN55022	Part15	Part15	Part15		
	Health Standard		FCC Bulletin OET-	FCC Bulletin OET-	FCC Bulletin OET-		
		EN 50385	65C, EN 50385, IC	65C, EN 50385, IC	65C, EN 50385, IC		
			Safety Code 6	Safety Code 6	Safety Code 6		
	Radio Standard	FCC Part15, EN300328, EN301893					
	Vibration Standard	GB/T 2423					
	Dimensions (W x D x	GB/1 2423					
Specifications	H) (mm)	276 × 246 × 90					
Specifications	Weight	<2.5kg					
		Operating	Operating	Operating	Operating		
Work Environment	Temperature	Temperature: -40°C	Temperature: -40°C	Temperature: -40°C	Temperature: -40°C		
		to 65°C (heater	to 55°C (heater	to 55°C (heater	to 55°C (heater		
		module will be	module will be	module will be	module will be		
		enabled at -15°C)	enabled at -15°C)	enabled at -15°C)	enabled at -15°C)		
		Storage	Storage	Storage	Storage		
		Temperature: -40°C	Temperature: -40°C	Temperature: -40°C	Temperature: -40°C		
		to 85°C	to 70°C	to 70°C	to 70°C		
	Humidity	Operating Humidity:	Operating Humidity:	Operating Humidity:	Operating Humidity:		
		0% to 100% (non-	5% to 95% (non-	5% to 95% (non-	5% to 95% (non-		
		condensing)	condensing)	condensing)	condensing)		
		Storage Humidity:	Storage Humidity:	Storage Humidity:	Storage Humidity:		
		0% to 100% (non-	5% to 95% (non-	5% to 95% (non-			
		`	,	`	5% to 95% (non-		
Installation Marie		condensing)	condensing)	condensing)	condensing)		
Installation Mode		Wall/pole-mount insta	allation				

Outdoor Antennas

Model		RG-ANTx3-2400D	RG-ANTx3-5800D	RG-ANTx3-2400&5800(O)
Type of External Antenna		Directional	Directional	Omnidirectional
	Frequency range	2.4 to 2.483GHz	5.125 to 6.100GHz	2.4 to 2.5GHz; 5.125 to 6.100GHz
	Gain	3 × 15dBi	2 × 19dBi (vertical) + 16dBi (dual inclined planes)	8 dBi
	Horizontal beamwidth	65°	21°	360°
Electrical	Vertical beamwidth	16°	16°	17°
Specifications	Front-to-back ratio	≤ -25 dB	≤ -25 dB	≤ -25 dB
	VSWR	≤ 1.5	≤ 1.5	≤ 1.5
	Polarization	2*VP (vertical polarization) +1*HP (horizontal polarization)	±45° and vertical polarization	VP (vertical polarization)
	Input impedance	50 ohms	50 ohms	50 ohms
	Mounting mode	Pole mounting (pole diameter 30 to 50 mm)	Pole mounting (pole diameter 50 to 120 mm)	Pole mounting (pole diameter 40 to 70 mm)
Mechanical	Temperature range	-40°C to 60°C	-40°C to 60°C	-40°C to 60°C
Specifications	Unit weight	2.3 kg	1.3 kg	1.2 kg
	Dimensions	400 × 240 × 35 mm (L × W × H)	380 × 380 × 33 mm (L × W × H)	Ф145 × 330 mm
	Connector	3 × N-K	3 × N-K	6 × N-K

ORDERING INFORMATION

Model	Description		
	Outdoor Wireless Access Point, IP67 rating, built-in directional smart antenna and lightning		
RG-AP630(IDA)	arrester, 3×3 MIMO, 3 spatial streams, support internal/external antenna switching, support PoE		
	Out for IP Camera connection, support concurrent 802.11a/b/g/n/ac, FAT/FIT mode, PoE+		
	(Installation Mount-Kit included, but PoE adaptor sold separately)		
	Outdoor Wireless Access Point, IP67 rating, built-in directional smart antenna and lightning		
DC ADG20/IDA2)	arrester, 4×4 MIMO, 4 spatial streams, support internal/external antenna switching, support		
RG-AP630(IDA2)	concurrent 802.1 1a/b/g/n/ac and Wave 2, FAT/FIT mode, PoE+		
	(Installation Mount-Kit included, but PoE adaptor sold separately)		
	Outdoor Wireless Access Point, IP67 rating, built-in omnidirectional smart antenna and lightning		
DC ADG20/IODA)	arrester, 3×3 MIMO, 3 spatial streams, support internal/external antenna switching, support		
RG-AP630(IODA)	PoE Out for IP Camera connection, support concurrent 802.11a/b/g/n/ac, FAT/FIT mode, PoE+		
	(Installation Mount-Kit included, but PoE adaptor sold separately)		
	Outdoor Wireless Access Point, IP67 rating, built-in directional antenna and lightning arrester,		
RG-AP630(CD)	2×2 MIMO, 2 spatial streams, support concurrent 802.11a/b/g/n/ac, FAT/FIT mode, PoE		
	(Installation Mount-Kit included, but PoE adaptor sold separately)		
Optional Accessories			
DO 00040 040T40FD UD U	24 10/100/1000BASE-T ports for downlink and 4 Gigabit SFP ports (non-combo) for uplink. To		
RG-S2910-24GT4SFP-UP-H	support HPoE (Port1-4), PoE+, PoE, 1 console port		
Optional External Antennas			
	2.4GHz MIMO Outdoor Directional Antenna Kit, include:		
DO ANTE O GAGOD	15dBi panel antenna (1 set);		
RG-ANTx3-2400D	1-meter N-N coaxial cables (3 sets);		
	waterproof materials (1 set)		
	5.8GHz MIMO Outdoor Directional Antenna Kit, include:		
RG-ANTx3-5800D	19dBi panel antenna (1 set);		
	1-meter N-N coaxial cables (3 sets);		
	waterproof materials (1 set)		
	2.4GHz & 5.8GHz MIMO Outdoor Omnidirectional Antenna Kit, include:		
RG-ANTx3-2400&5800(O)	8dBi panel antenna (1 set);		
	1-meter N-N coaxial cables (6 sets);		
	waterproof materials (2 sets)		



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