

Industrial AP/Client 733Mbps Dual-Band

GP-AG500 Series







Introduction

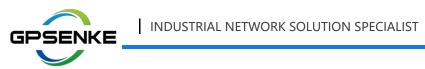
GP-AG500 Series is a high-performance wireless client designed for industrial WLAN applications. It utilized IEEE 802.11a/b/g/n/ac standard, support 2.4GHz &5GHz Dual-band with data rates up to 733Mbps. It designed with industrial-grade chipset, support surge, ESD and vibration resistance protection.

GP-AG500 Series can be installed on any device that requires wireless connectivity under "Client Mode". It supports millisecond-level GP Roaming, offers seamless and rapid wireless roaming with none-package loss.

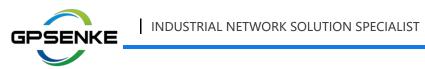
Meanwhile, it ensures quick handoffs between 2.4GHz and 5GHz based on specific scenario needs. GP-AG500 is particularly designed robot control system, intellegent Warehousing, AGVs system, power plant inspections.

Main Feature

- Support 802.11 b / g / n / ac Standard
- Support 802.11 Wavel (2-Stream), speed up to 733Mbps
- Support MAC Address Clone
- Support Millisecond Switching & GP Roaming
- Support IPv4/IPv6
- Support Dual Gigabit-RJ45 Ethernet
- Support RS232/485 Serial Port
- Support MU-MIMO
- Support Open System, Shared Key, WPA, WPA-PSK, WPA2-Enterprise, WPA2-PSK
- Support DC9-48V Power Supply
- Support IP40 Protection-Level
- Support -40°C \sim 80°C Working Temperature



Software Parameter						
	Frequency Band	2.4GHz	5GHz			
	Channel Bonding	40MHz(Not Recommed)	80MHz			
	MU-MIMO	Support	Support			
	OFDMA	Support	Support			
	TWT	Support	Support			
	433Mbps(PHY)	NA	Support			
	300Mbps(PHY)	Support	NA			
	A-MPDU	Support	Support			
	MLD	Support	Support			
WLAN	MRC	Support	Support			
	STBC	Support	Support			
	LDPC	Support	Support			
	MAX Virtual AP	Single Band Support 16 Virtual AP				
	Max Access Users	128 (Influenced by Environment Fators)				
	Max Access Spend	2.4GHz: 300Mbps 5GHz: 433Mbps				
	RTS/CTS	Support				
	CTS-to-self	Support				
	Hidden SSID	Support				
	Terminal Aging/Heartbeat Detection	Support				
Working	AP Mode	Brigde Mode(LAY2) Router Mode(LAY3)				
Mode	Client Mode	Support Client Mode Support MAC Address Clone				
Dannin n	December of Controls	Support 802.11k, 802.11v, 802.11r				
Roaming	Roaming Switch	LAY2/LAY3 Roaming				
RF	Load Balancing	Load balancing is supported based on the number of users and user traffic				
	5G Priority	Support				
	Automatic Channel Selection	Support				
	Automatic Power Regulation	Support				
	Intelligent Speed Select	Support				
	Time Fair Scheduling	Support				



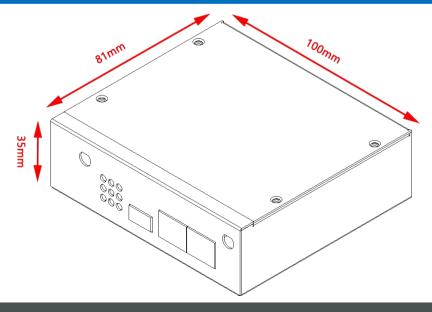
Security	Encryption	Support 64/128 bit WEP、Dynamic WEP、 TKIP、CCMP encryption	
	Authentication Method	Cooperate With AC Support WPA、WPA-PSK、WPA2- Enterprise、 WPA2-PSK、WPA3、MAC address Verify、Web Verify、 PPPoE Verification and etc Methods	
	LAY2 Isolation of Wireless Users	Support	
	wIDS	Support	
AAA	RadiusClient	Support	
	Authentication Server Multi- domain configuration	Support	
	Authentication Server Backup	Support	
LAY2/LAY3	IP Address	Static IP and DHCP dynamically obtain addresses	
	IPv6	Support	
	ACL	Support	
	DHCP server	Support (Router Mode)	
	NAT	Support (Router Mode)	
	WMM(802.11e)	Support	
	Priority Mapping	Support	
Service Quality	QoS Policy Mapping	Support	
	Bandwidth Managed	Support Bandwidth Speed Limitation based on SSID and Users	
	Call Admission Control (CAC)	Support	
Maintenance	Network Management	SNMPV1/V2c/V3、Trap、Telnet、FTP/TFTP、WEB	

Hardware Parameter							
Size		81 mm \times 35 mm \times 100 mm					
Port	Ethernet	2× 10/100/1000Base-T RJ45 Port					
	Antenna	2 × RPSMA-K Antenna Port (External AntennaOptional)					
	Serial	1×RS232/485					
Working Band	2.4G	802.11 n/g/b: 2.4GHz-2.483GHz (CHINA)					
	5G	802.11 ac/n/a: 5.150GHz-5.250GHz 5.725GHz-5.850GHz (CHINA)					



Modulation Technology	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 (11n): MCS 0-15 MIMO-OFDM (11ac): MCS 0-9		
Modulation Method	11b: DSS:CCK@5.5/11Mbps,DQPSK@2Mbps,DBPSK@1Mbps 11a/g OFDM:64QAM@48/54Mbps,16QAM@24Mbps,		
MAX Transmit Power	16.16dBm		
Adjustable Granularity	ldBm		
Operating Temperature	-40°C ∼ 75°C		
Storage Temperature	-40°C ∼ 85°C		
Operating Humidity	0%~95%(Non-condensing)		
IP Protection Level	IP40		
Power Supply	DC9V-48V Power Supply		
Consumption(Client5.8G)	≤12W		
MTBF	>250000H		
CE	IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF		

Size Design





Appearance & Accessories











Packing*1

Device*1

Rubber Duck Antenna*2

Manual*1

Model Selection							
Model	GP-AG500-3D-232	GP-AG500-5D-232	GP-AG500-3D-485	GP-AG500-5D-485			
Speed	733M						
GP-Q8203-RPS-J 3dbi	•	0	•	0			
GP-Q8205-S-J 5dbi	0	•	0	•			
RS232		0					
RS485 O)					



FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- •Reorient or relocate the receiving antenna.
- •Increase the separation between the equipment and receiver.
- •Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- •Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

INDUSTRIAL NETWORK SOLUTION SPECIALIST







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