Industrial Access Point 2975Mbps Dual-Band

GP-AP3000AX-FS Series

Introduction

GP-AP3000AX-FS Series is a high-performance, high-speed dual-band wireless industrial outdoor access point. It used Qualcomm chipset and supports 802.11 b / g / n / ac /ax, the speed up to 2975M. It designed and integrated with OFDMA, UL, MU-MIMO, 1024QAM and etc technical.

GP-AP3000AX-FS Series compliant with IP67 waterproof and dustproof standards and approvals covering operating temperature, power input voltage, surge, ESD, and vibration. It can be widely used in wireless network coverage in industrial outdoor places such as oil&gas，Mining industry, Chemical Refinery factory, intelligent warehousing, automation factory, underground pipe gallery, school, park, scenic spot, amusement park and etc.

Main Feature

- Support 802.11 b / g / n / ac Standard
- Support 802.11 ax Standard and 4-Streams 2975Mbps Speed
- Support Easy Mesh Function
- Support AP FAT and AP FIT Switching
- Support 4×4 MU-MIMO
- Support BSS Color and TWT Technical
- Support Open System, Shared Key, WPA, WPA-PSK, WPA2-Enterprise, WPA2-PSK
- Support Gigabit SFP Port
- Support Gigabit RJ45 Ethernet
- Support IEEE 802.3 af & at PoE Power Supply
- Support Diversified Access Authentication Methods
- Support IP67 Protection-Level

Software Parameter

WLAN	Frequency Band	2.4GHz	5GHz
	Channel Bonding	40MHz	160MHz
	MU-MIMO	Support	Support
	OFDMA	Support	Support
	TWT	Support	Support
	2400Mbps(PHY)	NA	Support
	575Mbps(PHY)	Support	NA
	A-MPDU	Support	Support
	MLD	Support	Support
	MRC	Support	Support
	STBC	Support	Support
	LDPC	Support	Support
	MAX Virtual AP	Single Band-- Support 16 Virtual AP	
	Max Access Users	1024 (Influenced by Environment Fators)	
	Max Access Spend	2.4GHz: 575Mbps 5GHz: 2400Mbps	
	RTS/CTS	Support	
	CTS-to-self	Support	
	Hidden SSID	Support	
	Terminal Aging/Heartbeat Detection	Support	
Mesh	Mesh Networking	Support	
	Specify the radio frequency as the backhaul link	Support	
	Link self-healing	Support	
	Link monitoring	Generate topology on AC (GPSENKE Access Controller) to achieve real-time monitoring	
	Muti-MESH Networking	Suppot Specify MESH ID, distinguishing multiple MESH networks by MESH ID	
	Multiple data exports	Support Muti-Data access (Under same Mesh Network)	
	MPP Role backup	Support	
Working Mode	Gateway Mode, FAT/FIT AP		

Category	Feature	Description
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
Roaming	Roaming Switch	Support 802.11k, 802.11v, 802.11r
		LAY2/LAY3 Roaming
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)
Service Quality	WMM(802.11e)	Support
	Priority Mapping	Support
	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		238mm×214mm×58mm (Not including waterproof connector)
Weight		1.2kg
Port	Ethernet	1 × 10/100/1000Base-T PoE/RJ45 Port
	Fiber	1 × 1000M SFP Fiber Port
	console	1
Antenna (Optional)	External	2.4G: ≧ 10 dBi@ 2.4~2.4835GHz，Horizontal angle 60 °, Vertical 30 ° 5G: ≧ 10 dBi@ 5.15~5.85GHz，Horizontal angle 80 °, Vertical 30 °
	Build-In	4 × N-K Type Connector Port (2.4GHzx2，5GHzx2) Built-in lightning protection
Working Band	2.4G	802.11ax/n/g/b: 2.4GHz-2.483GHz (CHINA)
	5G	802.11 ax/ac/n/a: 5.150GHz-5.350GHz 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 MIMO-OFDM （11ax）: MCS 0-11
Modulation Method		**11b**： DSS:CCK@5.5/11Mbps,DQPSK@2Mbps,DBPSK@1Mbps **11a/g**： OFDM:64QAM@48/54Mbps,16QAM@24Mbps, QPSK@12/18Mbps,BPSK@6/9Mbps **11n**： MIMO-OFDM:BPSK,QPSK,16QAM,64QAM **11ac/ac wave2**： MIMO-OFDM:BPSK,QPSK,16QAM,64QAM,256QAM **11ax**: MIMO-OFDM: BPSK,QPSK,16QAM,64QAM,256QAM,1024QAM
MAX Transmit Power		27dBm
Adjustable Granularity		1dBm
Operating Temperature		-40°C ～ 75°C
Storage Temperature		-40°C ～ 85°C
Operating Humidity		0%~95%(Non-condensing)
IP Protection Level		IP67
Power Supply		Support 802.3at Power Supply
Consumption(Client5.8G)		≤18W
MTBF		>250000H

Appearance & Accessories

SFP (Fiber Port)

2.4GHz ETH SFP 2.4GHz

LAN (POE)

2.4G Antenna 1   2.4G Antenna 2

5GHz-1   5GHz-2   5GHz-3   5GHz-4

5G Antenna 1   5G Antenna 2

CONSOLE

PWR WAN/SFP LAN 2.4G 5G

CONSOLE

PWR WAN/SFP LAN 2.4G 5G

214mm

238mm

58mm

产品名称:无线接入点
产品型号:GP-AP3000AX-FS
电源:PoE 48V(802.3at)
MAC
SN: AP0124
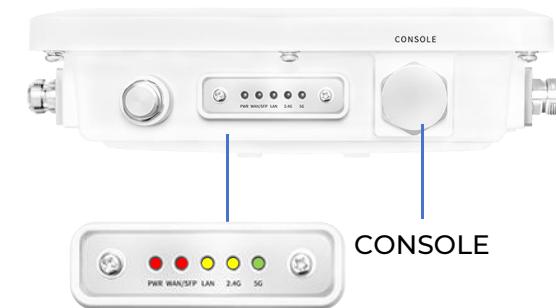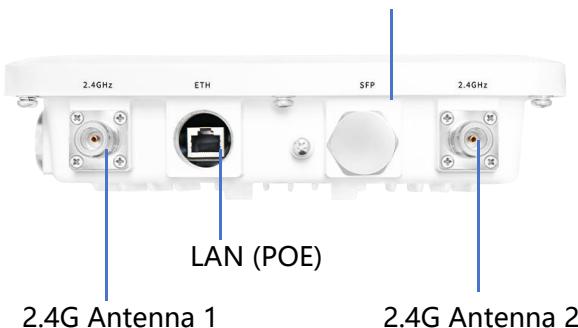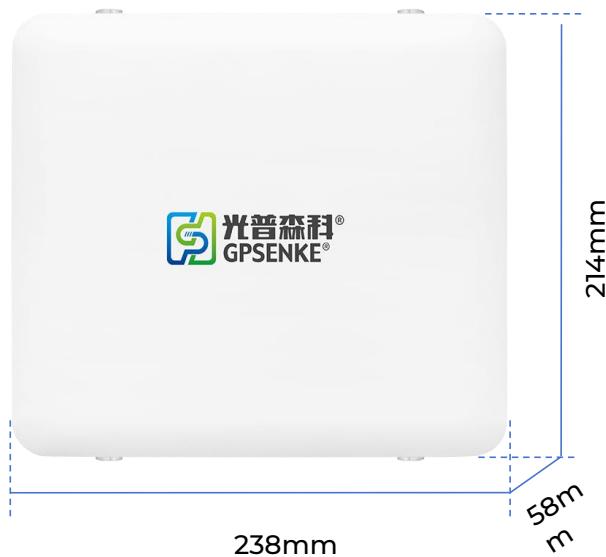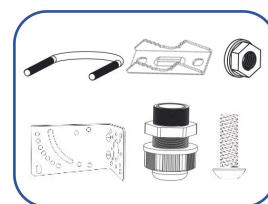
Packing *1   Device*1   Accessories*1   Manual*1

Model Selection

Model	GP-AP3000AX-Q-FS	GP-AP3000AX-D-FS
Speed	2975M	
External Antenna (Optional)	●	○
Build-in Antenna	○	●

INDUSTRIAL NETWORK
SOLUTION SPECIALIST

GPSENKE