Ex Dual-Mode Split AP 2975Mbps 2.4/5GHz

GP-AP3000AX-FB Series
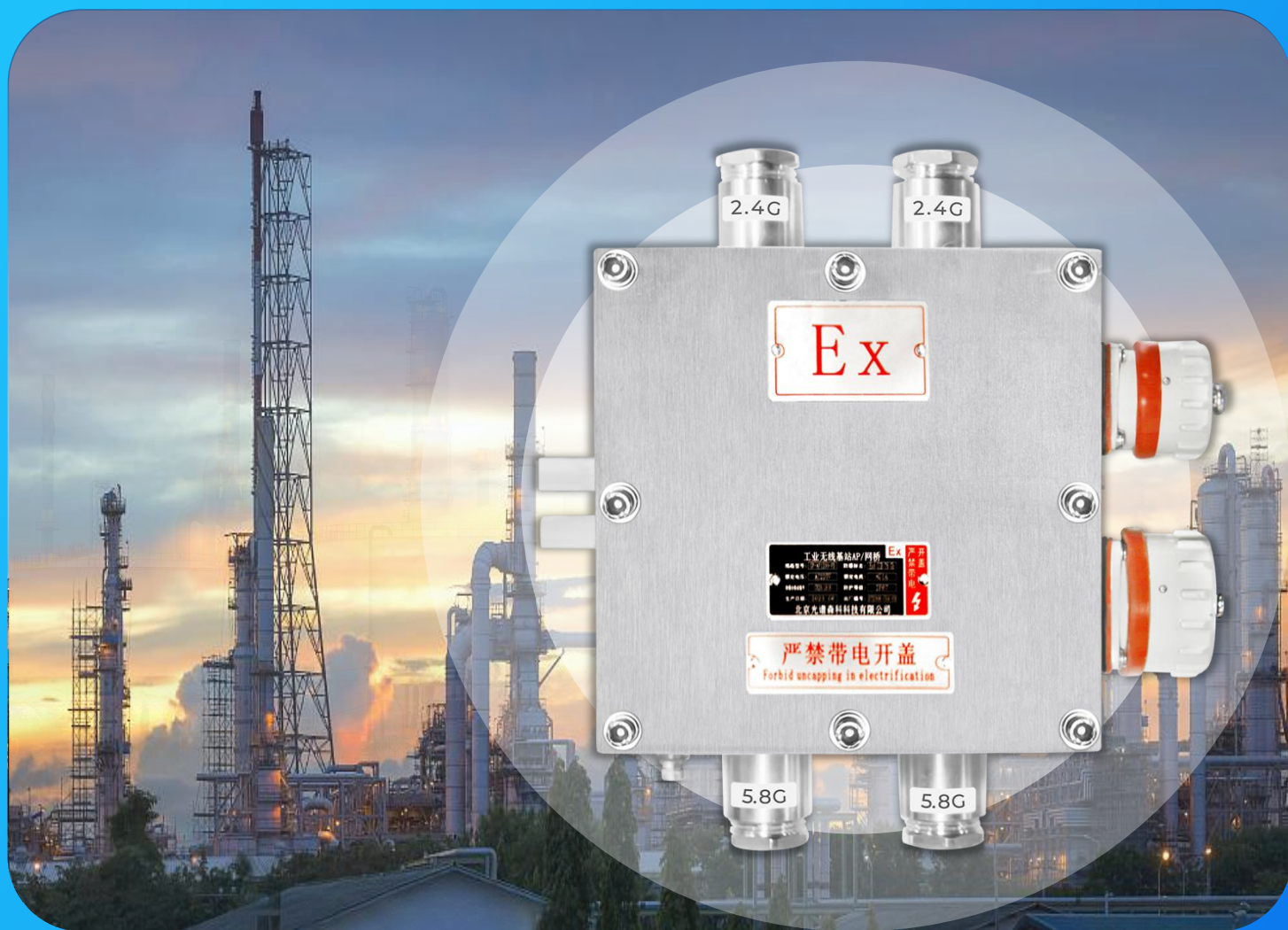
Introduction

GP-AP3000AX-FB Series is a high-bandwidth, high-speed Explosion-Proof (Ex) wireless access point. It utilizes the IEEE 802.11a/b/g/n/ac/ax standards, supporting dual-band operation at 2.4GHz and 5GHz with data rates up to 2975Mbps.

GP-AP3000AX-FB Series designed with Qualcomm chipset with dual-mode split, it supports 1*Gigabit Ethernet. The access point features OFDMA, UL, MU-MIMO, and 1024QAM, providing low power consumption, strong concurrency, numerous standby users, strong penetration, and wider coverage advantages.

GP-AP3000AX-FB Series features EXDIIBT6GB / EXDIICT6GB explosion-proof standard casing and waterproof treatment, achieving an IP67 protection rating. It ensures stable operation in environments with dust, high-risk, and flammable or explosive conditions which makes it ideal for wireless network coverage in oil& gas, refinery, petrochemical sites, underground utility tunnels and similar settings.

Main Feature

- Explosion-Proof (Ex) Protection Design
- Support EXDIIBT6GB / EXDIICT6GB
- Support 1*Gigabit RJ45 Ethernet Port
- Support 802.11 ax standard with 4-Stream, speed up to 2975Mbps
- Support OFDMA (Orthogonal Frequency Division Multiple Access)
- Support 1024-QAM to increase capacity, reduce latency, and improve Wi-Fi efficiency
- Support 4×4 MU-MIMO
- Support 802.11 b / g / n / ac Standard
- Suppport BSS(Basic Service Set) Color
- Support TWT (Target Wake Time)
- Support IPv4/IPv6
- Support Open System, Shared Key, WPA, WPA-PSK, WPA2-Enterprise, WPA2-PSK

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	
Working Mode	AP Mode	Gateway Mode , Relay Mode FAT/FIT Mode, ISP Mode	
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	

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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

RF Parameter

Working Band	2.4G Band	802.11ax/n/g/b: 2.4GHz-2.483GHz (CHINA)
	2.4G Protocal	802.11 b / g / n
	5G Band	802.11 ax/ac/n/a: 5.150GHz-5.350GHz 5.725GHz-5.850GHz (CHINA)
	5G Protocal	802.11 a / n / ac/ax
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

Hardware Parameter

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Size		200mm×200mm×100mm
Port	WAN	1× 10/100/1000Base-T RJ45 Port WAN/LAN Adaptive
	Antenna	2 × 6dBi 2.4G Antenna (External E.X. Antenna--Optional) 2 × 6dBi 5G Antenna (External E.X. Antenna--Optional)
Operating Temperature		-40°C ～ 75°C
Storage Temperature		-40°C ～ 85°C
Operating Humidity		0%~95%(Non-condensing)
Power Supply		AC220 Power Supply
Consumption(Client5.8G)		≤18W
Protection Standard		ExdIIBT6GB IP67 Protection
MTBF		>250000H

Size Design
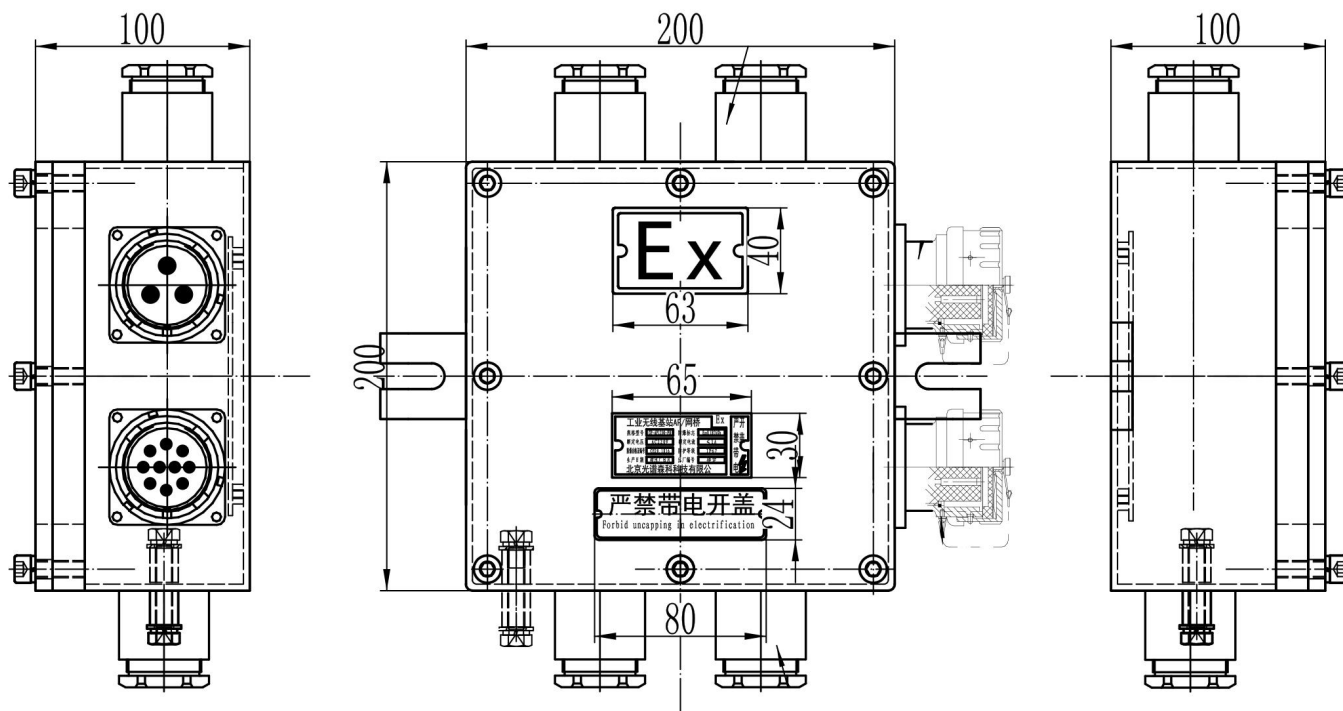
Appearance & Accessories

2.4G ANT   2.4G ANT

5.8G ANT   5.8G ANT

Ex

Gigabit Ethernet   DC220
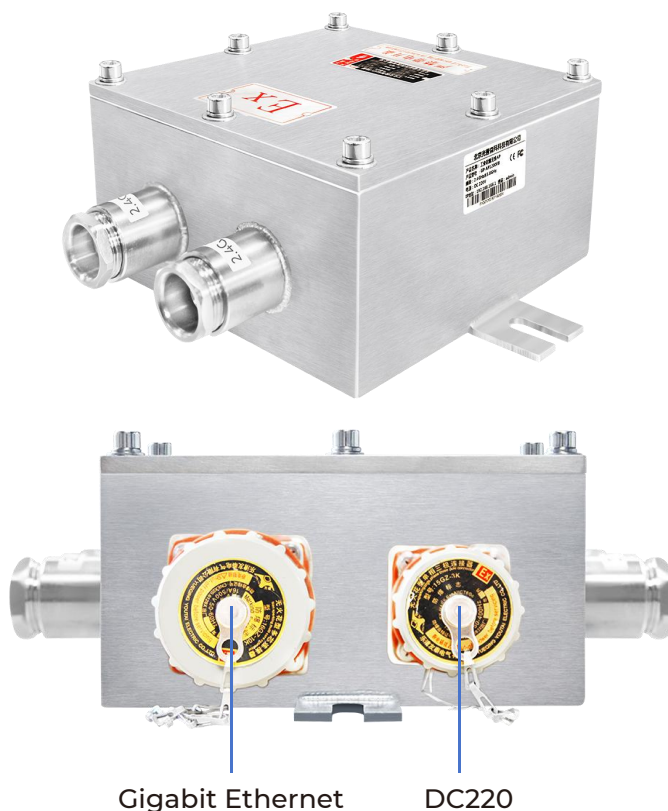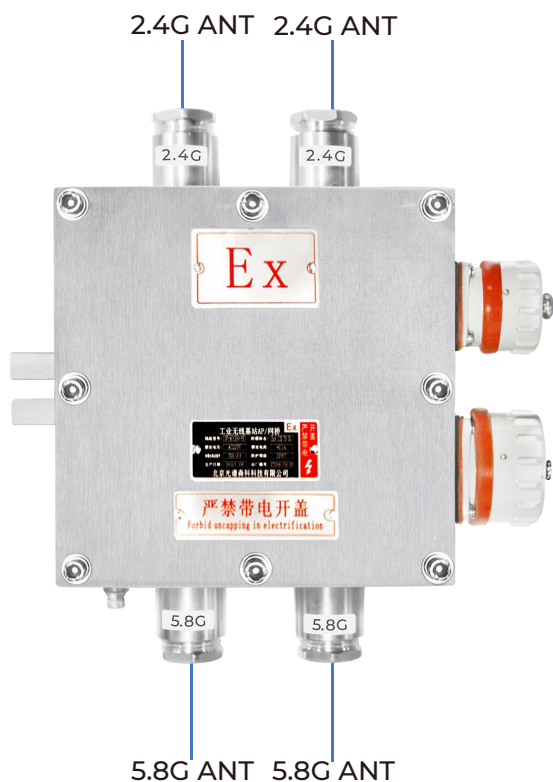
Wooden Fixed Box*1   Device*1   Ex Fibre-Glass Antenna*4   Accessories   Manual*1

Model Selection

Model	GP-AP3000AX-FB -Q-B	GP-AP3000AX-FB -Q-C	GP-AP3000AX-FB -D-B	GP-AP3000AX-FB -D-C
Speed	2975M			
Omnidirectional Antenna		●		○
Directional Antenna		○		●
EXDIIBT6GB（B)	●	○	●	○
EXDIICT6GB（C)	○	●	○	●

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