

Product Specification

Model: AX3000



1、 Brand and manufacturer

Brand: LINBLENET

Manufacturer: Shenzhen Libtor Technology Co., Ltd.

LOGO: LINBLENET

2、 Model and version

Model: AX3000

Version: V1.2

3、 Overview and features

Overview

The AX3000 is a high-performance dual-band 802.11ax outdoor access point. It provides concurrent 2.4 GHz and 5 GHz wireless service, with up to 574 Mbps on 2.4 GHz and up to 2402 Mbps on 5 GHz.

Features

- Higher link quality and throughput — up to 3000 Mbps concurrent data rate.
- IPQ5018 chipset with expanded client capacity — up to 128 concurrent clients.
- Clip-on heat sink with a nano coating for better heat dissipation.
- High-power FEM for stable RF performance and longer reach.
- Built-in lightning protection.
- All-metal housing, IP67 rated.

4、 Specifications

Specifications					
Model	AX3000				
CPU	IPQ5018+QCN6102+QCA8337				
Flash	SPI NOR 8MB, Nand 128MB				
DDR3L	512MB×1				
2.4 GHz frequency band	2.4GHz ~ 2.484GHz				
2.4 GHz Wi-Fi protocol	802.11b / g / n / ax				
5 GHz frequency band	5.150GHz ~ 5.850GHz				
5 GHz Wi-Fi protocol	802.11a/ n / ac /ax				
External antennas	4 × 2.4/5 GHz dual-band omnidirectional antennas, 6 dBi each				
Max. data rate	574 Mbps (2.4 GHz) / 2402 Mbps (5 GHz)				
Max. concurrent clients	128				
2.4 GHz TX power	802.11b	11M	25±2dBm	1M	25±2dBm
	802.11g	54M	23±2dBm	6M	25±2dBm
	802.11n HT20	MCS7	22±2dBm	MCS0	24±2dBm
	802.11n HT40	MCS7	22±2dBm	MCS0	24±2dBm
	802.11ax HE20	MCS11	20±2dBm	MCS0	24±2dBm
	802.11ax HE40	MCS11	20±2dBm	MCS0	24±2dBm
5 GHz TX power	802.11a	54M	25±2dBm	6M	27±2dBm
	802.11n HT20	MCS7	24±2dBm	MCS0	27±2dBm
	802.11n HT40	MCS7	24±2dBm	MCS0	27±2dBm
	802.11ac VHT20	MCS7	24±2dBm	MCS0	27±2dBm
	802.11ac VHT40	MCS7	23±2dBm	MCS0	27±2dBm
	802.11ac VHT80	MCS9	23±2dBm	MCS0	27±2dBm
	802.11ax HE20	MCS11	23±2dBm	MCS0	27±2dBm
	802.11ax HE40	MCS11	23±2dBm	MCS0	27±2dBm
	802.11ax HE80	MCS11	22±2dBm	MCS0	27±2dBm

	802.11ax HE160	MCS11	21±2dBm	MCS0	26±2dBm
2.4 GHz RX sensitivity	802.11b	11M	-87dBm	1M	-94dBm
	802.11g	54M	-75dBm	6M	-88dBm
	802.11n HT20	MCS7	-72dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-70dBm	MCS0	-88dBm
	802.11ax HE20	MCS11	-63dBm	MCS0	-88dBm
	802.11ax HE40	MCS11	-61dBm	MCS0	-88dBm
5 GHz RX sensitivity	802.11a	54M	-75dBm	6M	-92dBm
	802.11n HT20	MCS7	-73dBm	MCS0	-92dBm
	802.11n HT40	MCS7	-70dBm	MCS0	-90dBm
	802.11ac VHT20	MCS7	-67dBm	MCS0	-88dBm
	802.11ac VHT40	MCS7	-64dBm	MCS0	-88dBm
	802.11ac VHT80	MCS7	-60dBm	MCS0	-88dBm
	802.11ax HE20	MCS11	-62dBm	MCS0	-90dBm
	802.11ax HE40	MCS11	-60dBm	MCS0	-88dBm
	802.11ax HE80	MCS11	-58dBm	MCS0	-86dBm
	802.11ax HE160	MCS11	-54dBm	MCS0	-84dBm
2.4GHz EVM	802.11b: ≤-10 dB ; 802.11g: ≤-25 dB ; 802.11n: ≤-28dB ; 802.11ax: ≤-35 dB				
5GHz EVM	802.11a: ≤-25 dB ; 802.11n: ≤-28 dB ; 802.11ac: ≤-32 dB; 802.11ax: ≤-35 dB				
Frequency offset (ppm)	±20ppm				
SFP interface	1 × 10/100/1000 Mbps SFP optical port				
WAN interface	1 × 10/100/1000 Mbps auto-sensing WAN port, 48 V PoE input				
LAN interface	1 × 10/100/1000 Mbps auto-sensing LAN port				
Buttons	Reset — hold 6–10 s to restore factory defaults				
LED indicators	PWR (green): on when powered, off when unpowered SFP (green): off when no link, on when linked, blinking on activity WAN (green): off when no link, on when linked, blinking on activity LAN (green): off when no link, on when linked, blinking on activity 5G (green): on when the 5 GHz radio is enabled, blinking on activity, off when disabled 2.4G (green): on when the 2.4 GHz radio is enabled, blinking on activity, off when disabled				
Power input	PoE 802.3at, DC2.0 12V/2A				

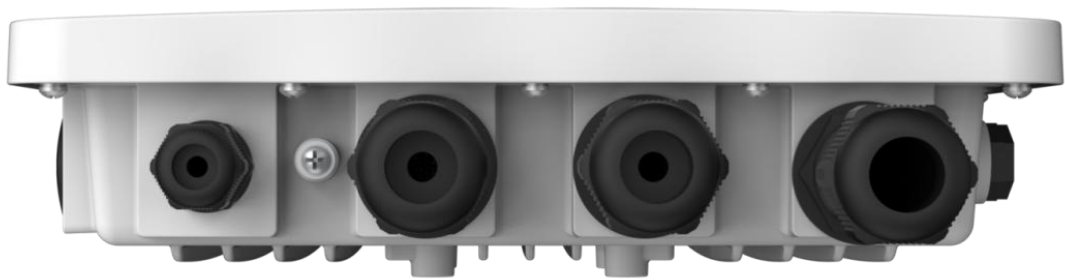
Max. power consumption	<18W
Dimensions	243.2mm × 218.3mm × 68.3mm
Weight	1.825 kg (unit) / 4.3 kg (with packaging)
Environment	Operating: -40 °C to 70 °C; storage: -40 °C to 70 °C; humidity 5%–95% (non-condensing)
Ingress protection	IP67
ESD	Air ±15 kV, contact ±8 kV
Surge	Common mode 4 kV, differential mode 2 kV

5、 Software features

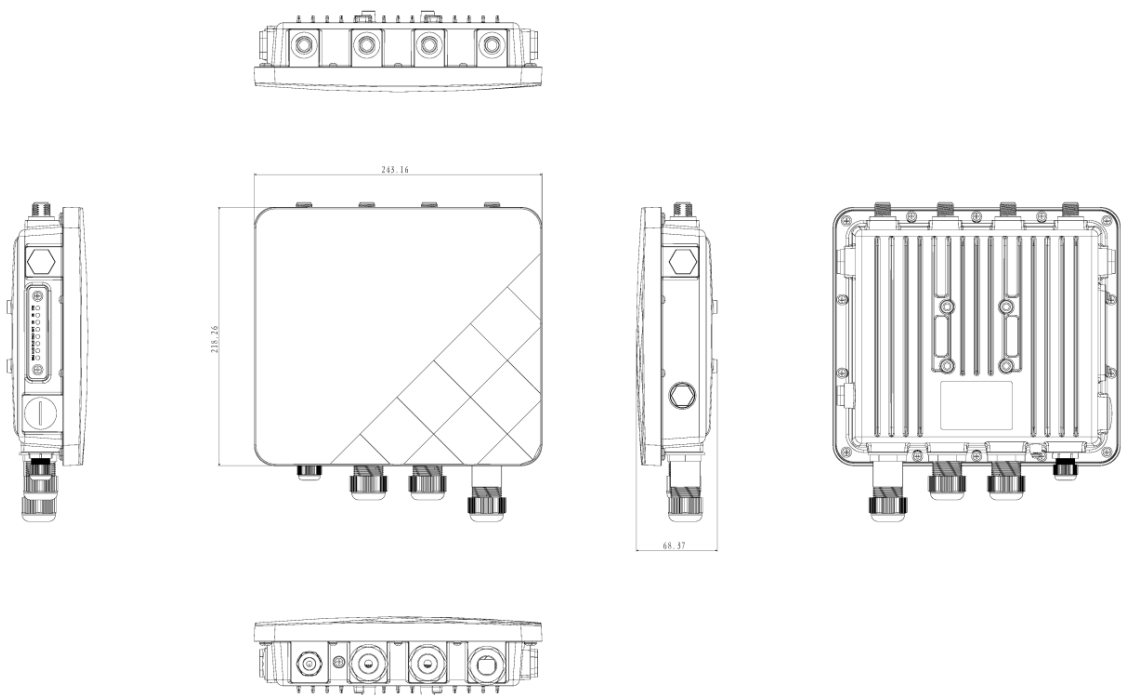
Home	Operating mode: fat AP and thin AP
	AP download rate, AP upload rate, uptime
	Device info, device description, LAN info, Wi-Fi info
Supported modes	Gateway mode — connects to the WAN through the WAN port using static IP, DHCP or PPPoE
	AP mode — provides wireless coverage to clients and reaches the WAN through an Ethernet uplink to another router
Wireless	SSID broadcast
	SSIDs: 4 (2.4 GHz) + 4 (5 GHz); UTF-8 SSID supported
	Hidden SSID
	Encryption: Open, WPA/WPA2-PSK TKIP/AES, WPA3-PSK AES
	Wireless MAC filtering: whitelist
	Wi-Fi schedule — timed shutdown
	Client isolation — between SSIDs and within the AP
	TX power setting
	Max. clients per SSID
	QoS: WMM
Network	Connection: static address, from management server, from gateway
	DHCP server: internal or external
	Cloud platform
	Firewall
	PPPoE dial-up
Device management	Back up configuration
	Restore configuration
	Factory reset

	Reboot — scheduled or immediate
	Firmware upgrade
	Time management — system time and time sync
	System log
	Fat / thin AP switching

6、 Interface diagram



7、 Outline drawing



8、 Packing list

Main unit*1

Antennas*4

L-shaped mounting bracket*1

Back clamp*2

Screw kit*1

Waterproof gland*3

User manual*1

Certificate of conformity and warranty card*1