

X303

Cloud Managed Outdoor AX3000 Access Point



The X303 is a Cloud-Managed AX3000 Outdoor Access Point (AP). It is a high-performance outdoor access point designed specially for outdoor environments. Featuring 802.11ax Wi-Fi 6 concurrent on both 2.4GHz and 5GHz bands, the X303 Cloud-Managed AX3000 Access Point offers high combined data rates to wireless clients. It provides lightning-fast access to bandwidth-intensive applications such as large file downloading and video conferencing, even in complex outdoor environments.

Features

AX3000 Wi-Fi 6 Performance

Up to 573.5Mbps (2.4GHz, 2T2R) and 2402Mbps (5.8GHz, 2T2R), with 1024-QAM and MU-MIMO for multi-device handling without lag.

Dual-Band High-Gain Internal Antennas

2×7dBi 2.4GHz and 2×7dBi 5.8GHz high gain omnidirectional antennas for strong outdoor signal coverage.

IP67 Waterproof Design

Suitable for harsh outdoor conditions, ensuring durability in rain, dust, and extreme temperatures.

PoE Support

1G WAN port with PoE enables data and power via a single Ethernet cable, flexible for outdoor deployment.

Cloud Platform Management

Supports cloud management via web and mobile APP, allowing remote monitoring, configuration, and troubleshooting anytime, anywhere.

Comprehensive Security & Management

WEP/WPA/WPA2/WPA3, firewall, MAC/IP/Port/URL filtering; user speed limit, time scheduling, and anti-DoS/ARP attack features.

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Product Specification

Hardware Parameters		
Chipset	IPQ5018+QCN6102+QCA8337	
CPU Frequency	Quad-Core 1GHz	
Memory	512MB DDR3L	
Flash	128MB Nand Flash	
Device Interfaces	• 1 x RJ45 10M/100M/1000M LAN1 Ethernet(with PoE In) • 1 x RJ45 10M/100M/1000M LAN2 Ethernet • 1 x reset button • 1 x Power jack	
WIFI	• 2T2R 2.4GHz 802.11b/g/n/ac/ax, 573.5Mbps • 2T2R 5.8GHz 802.11a/n/ac/ax, 2402Mbps	
WIFI Antenna	• 2 x 7Bi internal 2.4G antenna • 2 x 7Bi internal 5.8G antenna	
Power Consumption	≤18W	
WIFI Features		
Standard	• 802.11a/b/g/n/ac/ax • 802.11b/g/n/ax, frequency 2.400 GHz to 2.4835 GHz • 802.11a/n/ac/ax, frequency 5.150 GHz to 5.350 GHz && 5.470 GHz to 5.725 GHz && 5.725 GHz to 5.850 GHz • country-specific restrictions apply • Korea、Japan、ETSI、FCC channels can be selected	
Modulation Schemes	•OFDM - BPSK,QPSK, 16-QAM, 64-QAM 256-QAM 1024-QAM •DSSS - DBPSK, DQPSK, CCK	
Max transmit power	• 2.4GHz: 11n max 29bm (26bm per chain) 11ac max 29m (26bm per chain) 11ax max 29bm (26bm per chain)	• 5GHz: 11n max 29bm (26bm per chain) 11ac max 29bm (26bm per chain) 11ax max 29bm (26bm per chain)
RX Sensitivity	• 2.4GHz: 11n max - 71dbm 11ac max - 63dbm 11ax max - 59dbm	• 5GHz: 11n max - 71dbm 11ac max - 61dbm 11ax max - 56dbm(HE80) 11ax max - 53dbm(HE160)
Transfer Rate	• 2.4G: HE20: up to 286.8Mbps HE40: up to 576.5Mbps	• 5G: HE20: up to 286.8Mbps HE40: up to 576.5Mbps HE80: up to 1201Mbps HE160: up to 2402Mbps

Software Features

WiFi	Wireless spec Features: • Roaming • AP Mesh • Power Percent Adjustment • Removing Low-RSSI STAs • WIFI Optimization • Beamforming • Auto Channel • 160MHz Huge Frequency Width • WEP/WPA/WPA2/WPA3 Security • Guest SSIDs • Separate Authentication for SSID • Schedule Working for SSID • Speed Limit for SSID • Hidden SSID • User Isolation for SSID	Wireless main Protocols: • IEEE 802.11a • IEEE 802.11b • IEEE 802.11g • IEEE 802.11n • IEEE 802.11ac • IEEE 802.11ax • IEEE 802.11h(DFS) • IEEE 802.11e(WMM) • IEEE 802.11k/v/r
Network	Network spec Features: • IPv4/IPv6 dual stack • Static/IPoE/PPPoE Connection Type • IPv6 Stateless/Stateful • Bridge Mode	Network main Protocols: • RFC0768 UDP • RFC0791 IP • RFC0792 ICMP • RFC0793 TCP • RFC0826 Ethernet ARP • RFC0894 IP over Ethernet • RFC0922 Broadcasting Internet Datagrams • RFC0950 Internet Standard Subnetting Procedure • RFC2516 PPP Over Ethernet (PPPoE) • RFC1332 PPP Internet Protocol Control Protocol • RFC1042 Transmission of IP Datagrams over IEEE 802 Networks

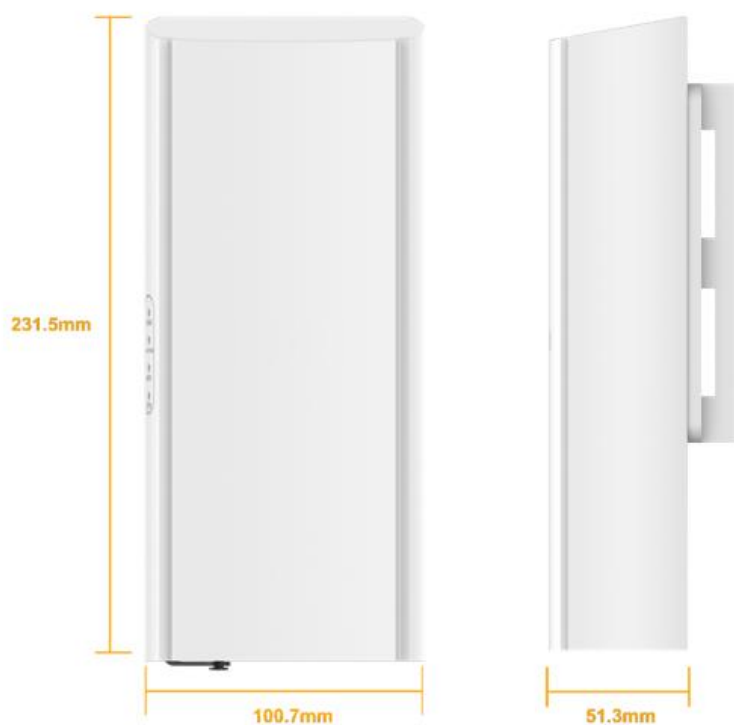
Software Features

Management Features	• WEB GUI • Command Tool Telnet For Debug • APP • SSH • HTTP/HTTPS • Login Authentication • NTP • Settings Backup && Import && Recovery • Firmware Local/Remote Upgrade • System Reboot && Scheduled-Restart • Network Self-Checking • Fault Alarm • Fault Collection • Diagnostic Tools(ping/tracert/nslookup)
Other Features	• Kick Off for Wireless User • Block Internet for User • Internet Time Schedule for User • Speed Limit for User • User Firewall MAC/IP/Port/URL filter for Data-Stream • Blue-Tooth • Night Mode(Light Control) • Roaming Test • Manual DNS
Coverage Radius	Ideal range: 150m *Performance may vary in different environments.
Max/Recommended Clients	256/128
Physical	
Dimensions	231.5 x 100.7 x 51.3mm
Weight	600 grams (1.32pounds)
Temperature	• Operating: -30° C~60° C • Storage: -30° C ~ 70° C
Operating Humidity	5%~95% (non-condensing)
Waterproof Level	IP67
Power Supply	12V/2A/POE
Power Consumption	≤18W
Regulation Compliance	CE
Safety Regulations	UL
Green Standard	RoHS

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Dimension Diagram



Interfaces Diagram

