

XD301

Cloud Managed Indoor AX3000 Access Point



The XD301 is a Cloud-Managed AX3000 Access Point (AP). It is a high-performance indoor access point designed for various indoor environments. Featuring 802.11ax Wi-Fi 6 concurrent on both 2.4GHz and 5GHz bands, the XD301 Cloud-Managed AX3000 Access Point offers high combined data rates to wireless clients. It provides fast access to bandwidth-intensive applications such as large file downloading and video conferencing, ensuring smooth user experience even in busy environments.

Features

Wi-Fi 6 Speed up to 3Gbps

Adopting 802.11ax Wi-Fi 6 standard, it delivers ultra-fast wireless speed of up to 3Gbps, allowing smooth experience with large file downloading, video conferencing and other network applications.

802.3at PoE Input for Flexible Deployment

Supports 802.3at PoE input, enabling flexible deployment and cost savings.

Dual-Band High-Performance Wi-Fi

2T2R 2.4GHz (supports 802.11b/g/n/ac/ax) and 2T2R 5.8GHz (supports 802.11a/n/ac/ax), with various transfer rates (e.g., 2.4GHz HE40 up to 576.5Mbps; 5GHz HE160 up to 2402Mbps) and max transmit power of 27dbm per band.

Cloud Platform Management

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

Comprehensive Coverage & Capacity

Comes with 2 internal 5dBi 2.4GHz and 2 internal 5dBi 5.8GHz antennas, plus Beamforming. Coverage radius up to 100m without obstacles, supporting max 256 clients (recommended 128).

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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 5dBi internal 2.4G antenna • 2 x 5dBi internal 5.8G antenna	
WIFI Features		
Standard	• 802.11a/b/g/n/ac/ax • 802.11b/g/n/ax, frequency 2.400GHz to 2.4835GHz • 802.11a/n/ac/ax, frequency 5.150GHz to 5.350GHz && 5.470GHz to 5.725GHz && 5.725GHz to 5.850GHz • 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 27dbm (24dbm per chain) 11ac max 27dbm (24dbm per chain) 11ax max 27dbm (24dbm per chain)	• 5GHz: 11n max 27dbm (24dbm per chain) 11ac max 27dbm (24dbm per chain) 11ax max 27dbm (24dbm 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 Features: • WIFI Vlan • 802.1x(Enterprise) Security • U-APSD • ShortGI • Multicast to Unicast • Fast Roaming • Force Roaming • Mac filter • IP filter • Force auto channel scan • Power Percent Adjustment • 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 Features: • IPv4/IPv6 dual stack • IPv6 Stateless/Stateful • Static/IPoE/PPPoE Connection Type • DHCP server • Bridge Mode • SNMP Service • Lan Vlan • Device Mesh • DDNS • VS Virtual Server • DMZ • UPNP	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

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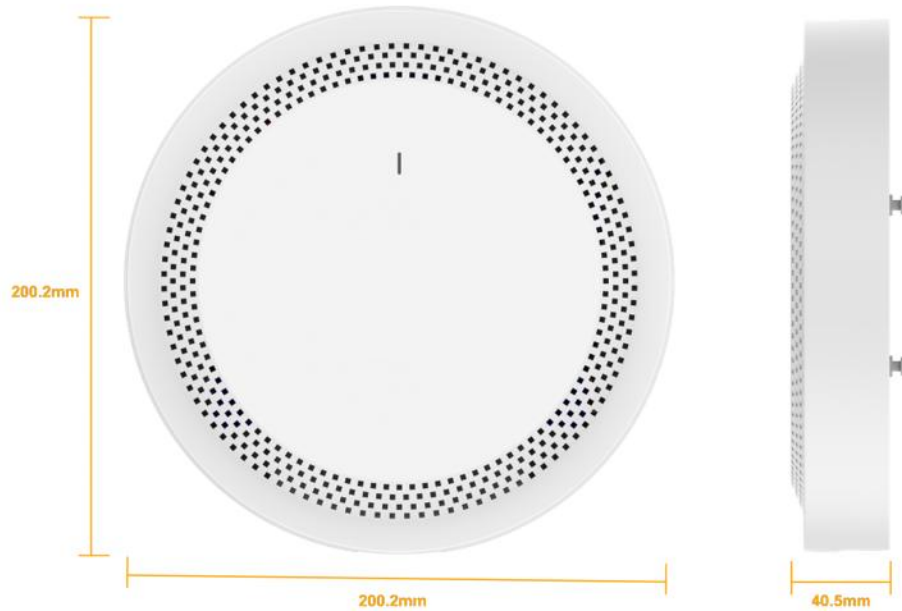
Software Features

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 • Whole network management • AP mode and Router mode • 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 • Defense DoS/ARP Attacks • URL Filtering • Configuration Management • Restoring factory settings • Login password change
Coverage Radius	Ideal range: 100m *Performance may vary in different environments.
Max/Recommended Clients	256/128
Physical	
Dimensions	200.2 x 200.2 x 40.5mm
Weight	491grams (1.08pounds)
Temperature	• Operating: 0° C~40° C • Storage: -30° C ~ 70° C
Operating Humidity	5%~95% (non-condensing)
Power Supply	12V/1.5A/POE
Power Consumption	≤18W
Regulation Compliance	CE
Safety Regulations	UL
Green Standard	RoHS

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Dimension Diagram



Product Interfaces Diagram

