AADONA®
GOING BEYOND VISION

Model: AXC-1800
Series: APOLLO

AXC-1800 2x2 MIMO Dual-Radio 802.11ax WiFi-6 Indoor Ceiling Mount Access Point

Truly Indian Brand

OVERVIEW

Apollo AXC-1800 is a high-performance 802.11ax Wave 2 Indoor Access Point, which provides an economical solution for deploying an efficient wireless network. With a 2x2 MU-MIMO dual-radio design, AXC-1800 delivers 1800Mbps combined throughput for uncompromising wired-like performance for all industry verticals such as classrooms, auditoriums, offices, hotel banquets, hospitals, and shopping malls. With built-in transmit beamforming, AXC-1800 is purpose-built to perform in high user density environments and allows users to enjoy seamless HD movies, streaming, and online gaming applications. Built-in Intelligent RF optimization and QoS enforcement ensure that the AXC-1800 provides always-on connectivity for data, high-bandwidth applications, or low-latency applications. These APs are ideal for deployment in hotel banquets and restaurants to cater to high user density with excellent throughput and Wi-Fi experience. Hardware and cloud based management with an intuitive dashboard and user-friendly configuration; flexible solutions for the lobby, conference centers, garden/pool areas; and broader area coverage with directional antennas provide a one-stop solution for hospitality customers. For enterprise and SMB requirements, AADONA access points provide excellent user handling capacity with 11ax Wave 2 technology. Modern office spaces have clients sitting in open bays and adjoining cabins/conference rooms, Apollo AXC-1800 AP offers a seamless wireless network to support a high user density environment on single AP accessing business applications that require high throughput. An office floor with 300 to 400 users can be easily catered to with a few AP's. With firewall policies, these AP's can secure the corporate network from external attacks and internal malicious activities. These Aps are best suited for indoor hotspot requirements like shopping malls and food courts, where the number of users is high. With a guest network, you can enable secured guest access with easy onboarding using the captive portal. These APs are also appropriate for education campuses like schools and universities. With smart classes, all students access study resources on tablets and laptops day and night. AXC-1800 provides excellent coverage and seamless connectivity to students for exploring new concepts online on the go. AXC-1800 can be configured as a standalone AP, or managed by Apollo hardware or cloud controller to provide advanced features like Firewall and role-based access control system (local authentication with captive portal), which allows you to deploy a highly secure WLAN network with seamless enterprise-class experience for all connected users.

FEATURES

High-Performance and High-Reliability Wireless Network	
Highlights:	Dual-band 2x2 802.11ax WiFi-6 MU-MIMO indoor access pointUp to 600Mbps (2.4GHz) + 1200Mbps (5Ghz) 1 Gigabit Ethernet WAN port and 1 Gigabit LAN port compliant with IEEE 802.3at+ PoE Easy ceiling installation Up to 8 SSID (4 SSID in 2.4GHz, 4 SSID in 5GHz) for flexibility in network design (in standalone mode) Intelligent RF optimization through airtime fairness, band steering, and optimal channel selection at the chipset level Work as a standalone AP, or centrally managed by hardware/cloud controller Tx power configuration and frequency analyzer for applications in different environments Supports DDNS, VPN pass-through, Port forwarding, and DMZ host
Superior Wireless Performance	AXC-1800 features the latest Wi-Fi 802.11ax WiFi-6 MU-MIMO technology 1024QAM modulation and is ideal for the deployment of maximum-performance wireless networks. AXC-1800 achieves a maximum data rate of up to 1800 Mbps and uses both the 2.4GHz and the 5GHz frequency bands simultaneously. With 4 Spatial Steams AXC-1800 enhances client connectivity with AP.
Intelligent RF optimization	When managed through hardware/cloud controller AXC-1800 automatically adjusts RF channel and power settings, provides band-steering and airtime fairness at the chipset level, ensuring all APs stay clear of RF interference to deliver a reliable, high-performance wireless network. No need to assign dedicated RF expertise and hardware especially required to fine-tune the wireless network.
Easy setup and User-friendly configuration	With Plug-n-Play and 3 steps simple configuration your access point can be configured to serve clients. You don't need expert IT staff to configure and manage your wireless network. A user-friendly GUI with no complications helps you to easily monitor client activities and network resources' health.
Guest Network	When managed through hardware/cloud controller AXC-1800 allows establishing a guest network to provide Internet to visitors while preventing guest

	users from accessing network files or devices. It allows the segmentation of user groups for better security and bandwidth control.
Multiple power options	AXC-1800 supports standard 802.3at Power over Ethernet (PoE), for flexible deployments in areas where power outlets are not readily available. It also supports DC power input, if required for installations where PoE is not feasible.
Centralized Management	Besides standalone mode, AXC-1800 can be centrally managed by a hardware/cloud controller, which centralizes the management, provisioning, and monitoring of wireless networks, scaling from small networks to larger and complex networks.
Enterprise-Grade Security	AXC-1800 delivers industry-leading, end-to-end robust security features. It supports all mainstream and standards-based security protocols, such as WPA / WPA2, WPA-PSK/ WPA2-PSK.

SPECIFICATIONS

Model Name	AXC-1800
Product Series	APOLLO
Warranty	3 Year
STANDARD	
WiFi 6	Yes
802.11ax	Yes
MU-MIMO technology	Yes
Throughput	1800 Mbps
Frequency Radio	2.4GHz: 2.400GHz - 2.484GHz 5GHz: 5.150GHz - 5.850GHz
2.4GHz	802.11 b/g/n/ac/ax (max rate: 600 Mbps)
5GHz	802.11 a/n/ac/ax (max rate: 1200 Mbps)
MIMO	
2x2	Yes
MU-MIMO	Yes
Transmit Power	23dBm
Spatial streams	4
Concurrent Users	400
PHYSICAL INTERFACE	
10/100/1000Mbps RJ45 WAN Port	1
10/100/1000Mbps RJ45 LAN Port	1
Reset button	1
Antenna gain	3dBi
DEPLOYMENT OPTIONS	
Standalone Mode	Yes
Hardware Controller	Yes
Cloud Controller	Yes
OPERATION MODES	

Wireless AP	Yes
Gateway	Yes
WISP	Yes
Repeater	-
SSID	
SSID for 2.4GHz	4
SSID for 5GHz	4
IP STANDARD	
IPv4	Yes
Watchdog	Yes
IP Address Setting	Static or DHCP allocation
Configuration	Web Interface (HTTP) Local management and Firmware upgrade Remote Management through the controller
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, Windows 8, MAC OS, NetWare, UNIX or Linux
RF SPECIFICATIONS	
Modulation	OFDM = BPSK,QPSK, 16-QAM, 64-QAM, 128-QAM, 256-QAM, 1024-QAM DSSS = DBPSK, DQPSK, CCK
PPM	±20ppm
EVM	2.4GHz EVM: 802.11b: ≤-10 dB; 802.11g:≤-25 dB; 802.11n:≤-28dB 5GHz EVM: 802.11a: ≤-25 dB; 802.11n:≤-28 dB; 802.11ax: ≤-32 dB
WAN OPTIONS	
Static IP	Yes
Dynamic IP	Yes
PPPoE	Yes
L2TP(Dual Access)	Yes
PPTP(Dual Access)	Yes
SECURITY	
64/128-bit WEP	Yes
EAP	Yes
WPA, WPA2, WPA-PSK, WPA2-PSK (TKIP/AES)	Yes
DoS attack prevention	Yes

MAC and IP Address Binding	Yes
Stateful Packet Inspection Firewall	Yes
MAC Address Filtering	Yes
IP Address Filtering	Yes
Domain Filtering	Yes
White list, static and dynamic blacklist	Yes
Secure admission control of wireless terminals	Yes
Dynamic CCA-SD (Clear Channel Assessment signal Detection) for interface	Yes
L2-L4 packet filtering and flow classification	Yes
MONITORING	
Dashboard(Overview)	Yes
Real-time Throughput Monitoring	Yes
Client List	Yes
Local logs	Yes
Syslog	Yes
Logfile export	Yes
NETWORK AND WIRELESS	
Seamless client roaming (with controller)	Yes
Transmit Power configuration	Yes
Auto Channel	Yes
Hidden SSID	Yes
Wireless Client Monitoring	Yes
Channel Scanning	Yes
AP Management VLAN	Yes
SSID-VLAN Mapping	Yes
Blind area detection and repair	Yes
High-density application optimization	Yes
RF OPTIMIZATION	
Beamforming	Yes

Band Steering	Yes
Airtime Fairness	Yes
WMM Optimization	Yes
Client Limiting	Yes
RSSI Threshold	Yes
Maximum ratio combining (MRC)	Yes
Space-time block coding (STBC)	Yes
Low-density parity-check code (LDPC)	Yes
ENVIRONMENTAL CONDITIONS	
Temperature and Humidity	Operating Temperature: -20~45 °C Storage Temperature: -30~70 °C Humidity: 5%~95% non-condensing
Mounting	Ceiling mount preferred
Device Dimensions	198mm X 198mm X 41mm
Power input	802.3at 48V PoE; <3oW DC 12V, 2A
Package Contents	AXC-1800 Mount Kit with screws Ethernet cable Quick Installation Guide

*All specifications are subject to change without notice.

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