AADONA
GOING BEYOND VISION

APOLLO : AXO-1800L

AXO-1800L 2x2 MIMO Dual-Radio 802.11ax Outdoor Access Point

Apollo AXO-1800L Outdoor AP delivers high-performance Wi-Fi access to meet high capacity demands. Engineered with a rugged enclosure and top-spec components, optimized for long-range outdoor coverage and robust wireless connectivity. It offers a cost-effective, high capacity, and reliable outdoor wireless solution.

With built-in transmit beamforming, it delivers 1800Mbps combined throughput over 2 radios for uncompromising wired-like performance for outdoor applications. Built-in Intelligent RF optimization and QoS enforcement ensure that the AXO-1800L provides always-on connectivity for data, high-bandwidth and low-latency applications.

These AP's are best suited for hotspot deployment in outdoor public areas like events, concerts, etc. where you have to provide wireless access to users present. Hardware or cloud based management with an intuitive dashboard and user-friendly configuration; flexible solutions for guest access in shopping malls, garden/pool areas; and broader area coverage with external antennas options provide a one-stop solution for customers.

AXO-1800L provides excellent user handling capacity with 11ax technology. While shopping or attending events/concerts users like to stay connected to family and friends via internet, Apollo AXO-1800L AP offers a seamless wireless network to support user applications and multiple client devices. Single AP can cater up to 128 users simultaneously on dual-band.

With a guest network, you can enable secured guest access with easy onboarding using captive portal. AXO-1800L is also appropriate for education campuses like schools and universities. With deployment in open areas they provide excellent coverage and seamless connectivity for students to access study resources on tablets and laptops in the campus area.

AXO-1800L can be configured as 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), that allows you to deploy a highly secure WLAN network with seamless enterprise-class experience for all connected users.

High-Performance and High-Reliability Wireless Network

Highlights

- Dual-band 2x2 802.11ac MIMO outdoor access point.
- Up to 600Mbps (2.4GHz) + 1200Mbps (5Ghz).
- 1xGigabit Ethernet WAN port compliant with IEEE 802.3at PoE

- Pole or wall mounting.
- 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 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

Industry-leading AXO-1800L outdoor access point is optimized for long-range access coverage and the highest possible throughput. With top-spec hardware designing, AXO-1800L features TDMA technology, including intelligent load-balancing, auto-RF adjustment, and sticky client elimination, all at chipset level.

AXO-1800L helps to create a reliable and high-performance WLAN infrastructure to keep up with bandwidth demands from the growing number of wireless devices and applications.

Intelligent RF optimization

When managed through hardware/cloud controller AXO-1800L automatically adjusts RF channel and power settings, provides band-steering and airtime fairness at chipset level, ensuring all APs stay clear of RF interference to deliver 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 AXO-1800L allows establishing a guest network to provide Internet to visitors while preventing guest users from accessing network files or devices. It allows segmentation of user groups for better security and bandwidth control.

Multiple power options

AXO-1800L supports standard 802.3at Power over Ethernet (PoE), for flexible deployments in areas where power outlets are not readily available.

Centralized Management

Besides standalone mode, AXO-1800L can be centrally managed by 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

AXO-1800L delivers industry-leading, end-to-end robust security features. It supports all main-stream and standards-based security protocols, such as WPA / WPA2, WPA-PSK/ WPA2-PSK, Captive Portal and Social Media Login.

Rugged industrial design

AXO-1800L is designed and tested for salt spray, vibration, extreme thermal conditions, shock and dust and is IP65-rated, operated from -20 C to +50 C, making it ideal for any extreme environments.

Female N-type connectors for external antenna support

4 nos. female N-type connectors are available to connect external antennas as per customer requirements. Users can connect sectorial or Omni-directional antennas as required. This increases Wi-Fi coverage and provides stable Wi-Fi signals for users.

Model Name	AXO-1800L
Product Series	APOLLO
Warranty	3 Year
Standard	
802.11ax	Yes
Wave 2	Yes
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 (max rate: 600 Mbps)
5GHz	802.11 a/n/ac/ax (max rate: 1200 Mbps)
MIMO	
2x2	Yes
MIMO	Yes
Spatial streams	4
Concurrent Users	128
Housing Type	IP65
Power Budget	1000 mW, 30 dBm
Physical Interface	
10/100 /1000Mbps RJ45 WAN Port	1
10/100 / 1000Mbps RJ45 LAN Port	-
Reset button	1
Antenna Connector	4 Female N-type connectors for External antenna support
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 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 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

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	
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: -20~50 °C Storage Temperature: -40~70 °C Humidity: 10%~90% non-condensing
Mounting	Wall or Pole mount preferred
Device Dimensions	198mm X 198mm X 28mm
Weight	4 Kgs
Power input	802.3at 48V PoE; <30W
Package Contents	AXO-1800L Mount Kit with screws Ethernet cable Quick Installation Guide

*All specifications are subject to change without notice.

AADONA®
GOING BEYOND VISION

AADONA Communication Pvt Ltd

Corporate Headquarters

1st Floor, Phoenix Tech Tower,Plot No.14/46,
IDA-Uppal,Hyderabad,Telangana 500039
www.aadona.com
Toll Free No. : 1800 202 6599
contact@aadona.com

AADONA Communication Pvt Ltd

Production, Warehousing and Billing Center

7, SBI Colony, Mohaba Bazar, Hirapur Road,
Raipur Chhattisgarh, 492099
www.aadona.com
Toll Free No. : 1800 202 6599
contact@aadona.com