



APOLLO : AOS-1200

AOS-1200 2x2 MIMO Dual-Radio 802.11ac Wave 2 Outdoor Access Point

OVERVIEW

Apollo AOS-1200 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 1200Mbps combined throughput over 2 radios for uncompromising wired-like performance for outdoor applications. Built-in Intelligent RF optimization and QoS enforcement ensure that the AOS-1200 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.

AOS-1200 provides excellent user handling capacity with 11ac Wave 2 technology. While shopping or attending events/concerts users like to stay connected to family and friends via internet, Apollo AOS-1200 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. AOS-1200 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.

AOS-1200 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.

FEATURES

HIGH-PERFORMANCE AND HIGH-RELIABILITY WIRELESS NETWORK

Highlights:	<ul style="list-style-type: none">• Dual-band 2x2 802.11ac MIMO outdoor access point.• Up to 300Mbps (2.4GHz) + 900Mbps (5GHz).• 1xGigabit Ethernet WAN port compliant with IEEE 802.3at PoE and 1xGigabit Ethernet LAN port (inside the casing).• 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	<p>Industry-leading AOS-1200 outdoor access point is optimized for long-range access coverage and the highest possible throughput. With top-spec hardware designing, AOS-1200 features TDMA technology, including intelligent load-balancing, auto-RF adjustment, and sticky client elimination, all at chipset level.</p> <p>AOS-1200 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.</p>
Intelligent RF optimization	<p>When managed through hardware/cloud* controller AOS-1200 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.</p>
Easy setup and User-friendly configuration	<p>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.</p>
Guest Network	<p>When managed through hardware/cloud* controller AOS-1200 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.</p>
Multiple power options	<p>AOS-1200 supports standard 802.3at Power over Ethernet (PoE), for flexible deployments in areas where power outlets are not readily available.</p>
Centralized Management	<p>Besides standalone mode, AOS-1200 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.</p>

Enterprise-Grade Security	AOS-1200 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	AOS-1200 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.

SPECIFICATIONS

Model Name	AOS-1200
Product Series	APOLLO
Warranty	3 Year
STANDARD	
802.11ac	Yes
Wave 1	Yes
MIMO technology	Yes
Throughput	1200 Mbps
Frequency Radio	2.4GHz: 2.400GHz - 2.484GHz 5GHz: 5.150GHz - 5.850GHz
2.4GHz	802.11 b/g/n (max rate: 300 Mbps)
5GHz	802.11 a/n/ac (max rate: 900 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	1
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	Yes
SSID	
SSID for 2.4GHz	4
SSID for 5GHz	4
IP STANDARD	
IPv4	Y
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; 802.11ac: ≤-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	AOS-1200 Mount Kit with screws Ethernet cable Quick Installation Guide
STRONGLY RECOMMENDED	
Lightning Arrestor	Optional and not included in the box, but highly recommended to avail warranty
SPECIFICATIONS FOR LIGHTNING ARRESTOR	
Frequency	0-2.5GHz
Discharge Voltage	230V
VSWR	$\leq 1.06/1.2\text{GHz}$ $\leq 1.2/2.5\text{GHz}$
Insertion Loss	$\leq 0.1\text{dB}/1.5\text{GHz}$ $\leq 0.2\text{dB}/2.5\text{GHz}$
Circulation Capacity	10kA@8/20 μs
Insulation Resistance	$\geq 500\text{M}\Omega$
Contact Resistance	Inner Conductor: $\leq 3\text{m}\Omega$ Outer Conductor: $\leq 2\text{m}\Omega$
NOTE:	
Cloud*	Currently, Cloud is hosted Internationally, India hosting will be done in 2021.

*All specifications are subject to change without notice.



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