




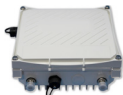

















PRODUCT LINE MATRIX: ACCESS POINTS

Model		AP-68 and AP-68P [1]	90 Series APs	AP-93H	100 Series APs	130 Series APs	AP-175	220 Series APs
								
Applications	Description	<p>The AP-68 and AP-68P [1] are ideal for environments that require a WLAN with enterprise-class security and reliability, but do not need to support high Wi-Fi client densities or extended range.</p> <p>Features:</p> <ul style="list-style-type: none"> Managed by a Mobility Controller One 2.4-GHz radio, 1x1 MIMO, 150 Mbps Internal and external antennas One 10/100BASE-T port 	<p>Entry-level indoor 802.11n APs for low-density deployments in offices, hospitals, schools and retail stores.</p> <p>Features:</p> <ul style="list-style-type: none"> Managed by a Mobility Controller One radio, 2x2 MIMO, 300 Mbps Internal and external antennas One Gigabit Ethernet port 	<p>Indoor single-radio 802.11n dual-band AP for dormitories, classrooms, hotels, medical clinics and multitenant environments.</p> <p>Features:</p> <ul style="list-style-type: none"> Managed by a Mobility Controller Mounts to Ethernet wall plate One radio, 2x2 MIMO, 300 Mbps, internal antennas Four 10/100BASE-T ports, one Gigabit Ethernet port, one RJ-45 pass-through port 	<p>Affordable indoor 802.11n APs for high-density deployments in offices, hospitals, schools, retail stores and warehouses.</p> <p>Features:</p> <ul style="list-style-type: none"> Managed by a Mobility Controller Two radios, 2x2 MIMO, 300 Mbps per radio Internal and external antennas One Gigabit Ethernet port 	<p>802.11n indoor APs maximize mobile device performance in extremely high-density Wi-Fi environments and support MACSec to ensure strong threat protection on the AP wired Ethernet uplink.</p> <p>Features:</p> <ul style="list-style-type: none"> Managed by a Mobility Controller Two radios, 3x3 MIMO, 450 Mbps per radio Internal and external antennas Two Gigabit Ethernet ports 	<p>802.11n AP for outdoor areas, storage yards, warehouses, container and transportation facilities, industrial production areas and other harsh environments.</p> <p>Features:</p> <ul style="list-style-type: none"> Managed by a Mobility Controller Two radios, 2x2 MIMO, 300 Mbps per radio External quad antenna connectors One Gigabit Ethernet port 	<p>802.11ac indoor APs deliver gigabit Wi-Fi performance to 802.11ac mobile devices in extremely high-density WLAN client environments and support MACSec to ensure strong threat protection on the AP wired Ethernet uplink.</p> <p>Features:</p> <ul style="list-style-type: none"> Managed by a Mobility Controller Two radios, 3x3 MIMO, 1.3 Gbps max in the 5-GHz band, 600 Mbps max in the 2.4-GHz band Internal and external antennas Two Gigabit Ethernet ports support link aggregation
	Spectrum analysis	No	Yes	Yes	Yes	Yes	Yes	Yes
Number of radios		Single radio	Single radio	Single radio	Dual radio [2]	Dual radio [2]	Dual radio [2]	Dual radio [2]
Operating frequencies		2.400 to 2.4835 GHz Radio channel availability is centrally managed by the Mobility Controller based on configured regulatory domain	2.400 to 2.4835 GHz 5.150 to 5.875 GHz Radio channel availability is centrally managed by the Mobility Controller based on configured regulatory domain					
DFS support	FCC/US	Not applicable	Yes (AOS 6.2+)	Yes (AOS 6.2+)	Yes (AOS 6.2+)	Yes (AOS 6.2+)	Yes (AOS 6.2+)	Planned
	ETSI/EU	Not applicable	Yes	Yes	Yes	Yes	Yes	Yes
	MKK/JP	Not applicable	Yes	Yes	Yes	Yes	Yes	Yes
Wi-Fi client performance optimization		Aruba ClientMatch™ technology eliminates sticky clients by continuously gathering session performance metrics from mobile devices and using this information to intelligently steer each one to the best AP and radio on the WLAN. Proactive and deterministic, ClientMatch dynamically optimizes Wi-Fi client performance, even while users roam and RF conditions change. If a mobile device moves out of range of an AP or RF interference impedes performance, ClientMatch automatically steers it to a better AP.						
Best-in-class RF management		Adaptive Radio Management (ARM) provides dynamic, application-aware channel management to maximize network capacity and ensure fairness in bandwidth availability per user. Capabilities include adaptive power and channel assignments, coordinated access to a single channel, band steering, channel load balancing, airtime fairness, airtime performance protection and coverage hole detection. In addition, spectrum analysis remotely scans the 2.4-GHz and 5-GHz radio bands to identify sources of RF interference. This provides visibility into non-802.11 RF interference sources and their effect on 802.11 channel quality.						

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Number of BSSIDs per radio		Up to 8	Up to 8 (16 possible but not recommended)	Up to 8 (16 possible but not recommended)	Up to 8	Up to 8 (16 possible but not recommended)	Up to 8	Up to 8 (16 possible but not recommended)
Antennas		AP-68: Integrated, omni-directional antenna elements with receive spatial diversity. Antenna gain: 3 dBi max AP-68P [1]: RP-SMA interface for external antenna support	AP-92: Two RP-SMA interfaces for external dual-band antennas with 2x2 MIMO AP-93: Two integrated omni-directional dual-band antennas with 2x2 MIMO	Two integrated omni-directional dipole antennas with 2x2 MIMO	AP-104: Four RP-SMA interfaces (two per band) for external 2.4-GHz and 5-GHz antennas with 2x2 MIMO AP-105: Four integrated omni-directional dual-band dipole antennas with 2x2 MIMO	AP-134: Three RP-SMA interfaces for external dual-band antennas with 3x3 MIMO AP-135: Six integrated omni-directional antennas with 3x3 MIMO	Four N-type interfaces (two per band) for external 2.4-GHz and 5-GHz antennas with 2x2 MIMO	AP-224: Three RP-SMA interfaces for external dual-band antennas with 3x3 MIMO AP-225: Six integrated downtilt omni-directional antennas with 3x3 MIMO
Network interfaces		One 10/100BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX	One 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX	One 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX Four 10/100BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX One passive RJ-45 pass-through interface (two ports)	One 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX	Two 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX. Supports MACSec encryption, 802.3az (EEE)	One 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX	Two 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX. Supports MACSec encryption, 802.3az (EEE)
Other interfaces		Console interface (RJ-45)	Console interface (RJ-45)	Console interface (RJ-45)	Console interface (RJ-45)	Console interface (RJ-45)	Console interface (USB)	Console interface (RJ-45) USB 2.0 port
Power over Ethernet (PoE) interfaces		48V DC 802.3af-compatible	48V DC 802.3af-compatible	48V DC 802.3af-compatible	48V DC 802.3af-compatible	48V DC 802.3af or 802.3at or PoE+ interoperable with intelligisource PSE sourcing intelligence (both ports)	AP-175P: 802.3at-compatible PoE input (PD) AP-175AC and DC: 802.3af-compatible PoE output (PSE)	48V DC 802.3af or 802.3at or PoE+ interoperable with intelligisource PSE sourcing intelligence (both ports)
DC power interfaces		12V, 1.25A	12V, 1.25A	12V, 1.25A	12V, 1.25A	12V, 1.25A	AP-175DC: 12-48V	12V, 1.5A
AC power interfaces		Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	AP-175AC: 100-240V	Not applicable
Power consumption		8 watts (maximum)	10 watts (maximum)	9 watts (maximum)	12.5 watts (maximum)	12.5 watts (maximum)	AP-175P: 18 watts (maximum)	15 watts, plus up to 2.5 watts for attached USB device
Environmental	Class	Indoor	Indoor, plenum-rated	Indoor	Indoor, plenum-rated	Indoor, plenum-rated	Outdoor	Indoor, plenum-rated
	Operating temperature	0° C to +40° C (+32° F to +104° F)	0° C to +50° C (+32° F to +122° F)	0° C to +40° C (+32° F to +104° F)	0° C to +50° C (+32° F to +122° F)	0° C to +50° C (+32° F to +122° F)	AP-175P: -30° C to +60° C (-22° F to +140° F) AP-175AC and DC: -40° C to +55° C (-40° F to +131° F)	0° C to +50° C (+32° F to +122° F)
TAA/FIPS (AP HW)		No	Yes	No	Yes	Yes	Yes	Planned
FIPS (SW)		No	ArubaOS 6.1-FIPS	No	ArubaOS 6.1-FIPS	ArubaOS 6.1-FIPS	ArubaOS 6.1-FIPS	Planned
CC		No	In progress	No	In progress	In progress	In progress	Planned
Part numbers	Access points	AP-68: 802.11b/g/n: Integrated antennas AP-68P [1]: High-power 802.11b/g/n: antenna connector	AP-92: 802.11a/n or 802.11b/g/n with antenna connectors AP-93: 802.11a/n or 802.11b/g/n with integrated antennas	AAP-93H: 802.11a/n or 802.11b/g/n with integrated antennas, four-port switch	AP-104: 802.11a/n and 802.11b/g/n with antenna connectors AP-105: 802.11a/n and 802.11b/g/n with integrated antennas	AP-134: 802.11a/n and 802.11b/g/n, antenna connectors AP-135: 802.11a/n and 802.11b/g/n, integrated antennas Note: units ship with flat ceiling rail mount adapters	AP-175P: PoE powered AP-175AC: AC powered, PoE out AP-175DC: DC powered, PoE out	AP-224: 802.11ac (5 GHz) and 802.11n (2.4 GHz), antenna connectors AP-225: 802.11ac (5 GHz) and 802.11n (2.4 GHz), integrated antennas

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Model		AP-68 and AP-68P [1]	90 Series APs	AP-93H	100 Series APs	130 Series APs	AP-175	220 Series APs
								
Part numbers	Accessories	None	AP-90-MNT mount kit AP-90-MNT-W2 flat surface mount cradle (secure) AP-90-MNT-C2 ceiling-tile rail adapters (special)	None	AP-105-MNT and AP-105-MNT-DC flat-surface mount cradles (secure) AP-105-MNT-C ceiling-tile rail adapters (basic) AP-105-MNT-C2 ceiling-tile rail adapters (special)	AP-130-MNT flat surface mount bracket (basic) AP-130-MNT-W2 flat surface mount cradle (secure) AP-130-MNT-C2 ceiling-tile rail adapters (special)	AP-LAR-1 lightning surge arrester AINS2KKIT-00 outdoor installation kit CBL-AC-NA outdoor AC power cable, North America CBL-AC-INTL outdoor AC power cable, international CBL-DC-WW outdoor DC power cable CKIT-AC-M weatherproof AC power connector kit CKIT-DC-M weatherproof DC power connector kit	AP-220-MNT-C2 ceiling-grid mount kit AP-220-MNT-W1 flat-surface mount kit AP-220-MNT-W2 box style, secure flat-surface mount kit
	Attachable antennas	AP-68P [1]: Yes – see Antenna Matrix	AP-92: Yes – see Antenna Matrix AP-93: Not supported	Not supported	AP-104: Yes – see Antenna Matrix AP-105: Not supported	AP-134: Yes – see Antenna Matrix AP-135: Not supported	Yes – see Antenna Matrix	AP-224: Yes – see Antenna Matrix
	AC power adapters	AP-AC-UN or AP-AC-12V18	AP-AC-UN or AP-AC-12V18	AP-AC-UN or AP-AC-12V18	AP-AC-UN or AP-AC-12V18	AP-AC-UN or AP-AC-12V18	Not applicable	AP-AC-UN or AP-AC-12V18
	PoE midspan injectors	PD-3501-AC	PD-3501G-AC	PD-3501G-AC	PD-3501G-AC	PD-3501G-AC PD-9001GR-AC	PD-9001GR-AC PD-9001GO	PD-9001GR-AC
Product warranty		One-year parts and labor	Limited lifetime	Limited lifetime	Limited lifetime	Limited lifetime	One-year parts and labor	Limited lifetime
Minimum ArubaOS version		5.0.3.0	5.0.4.1, 6.0.2.1, 6.1.2.0	6.1.3.0	6.1.3.0 (AP-104) 3.4.1.0 (AP-105)	6.1.1.0	5.0.2.1	6.3.0.0

[1] Available only in China.
 [2] Concurrent operation of both radios in the same frequency band (2.4 GHz and 5 GHz) is not supported.
 [3] AP ships with ceiling-tile rail adapters for basic (flat) rails.



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