






















PRODUCT LINE MATRIX: INSTANT ACCESS POINTS

Model		RAP-155 Instant APs	130 Series Instant APs	100 Series Instant APs	90 Series Instant APs	RAP-100 Series Instant APs	RAP-3 Instant APs	AP-175 Outdoor Instant APs
								
Applications	Description	Secure 802.11n wireless and wired networking for SMBs and access to corporate resources from branch offices. It is ideal for ultra-high-density Wi-Fi environments that require fast encrypted throughput. Features: <ul style="list-style-type: none"> • Controllerless RAP • 2x2 MIMO, 300 Mbps (2.4-GHz radio) • 3x3 MIMO, 450 Mbps (5-GHz radio) • Two internal antennas for 2.4 GHz and three internal antennas for 5 GHz • One Gigabit Ethernet uplink, four Gigabit Ethernet local ports, one USB port 	802.11n indoor APs maximize mobile device performance in extremely high-density Wi-Fi client environments. Features: <ul style="list-style-type: none"> • Controllerless AP • 3x3 MIMO, 450 Mbps per radio • Internal and external antennas • Two Gigabit Ethernet ports 	Affordable indoor 802.11n APs for high-density deployments in offices, hospitals, schools, retail stores and warehouses. Features: <ul style="list-style-type: none"> • Controllerless AP • 2x2 MIMO, 300 Mbps per radio • Internal and external antennas • One Gigabit Ethernet port 	Entry-level indoor 802.11n APs for low-density deployments in offices, hospitals, schools and retail stores. Features: <ul style="list-style-type: none"> • Controllerless AP • 2x2 MIMO, 300 Mbps • Internal and external antennas • One Gigabit Ethernet port 	Secure 802.11n wireless and wired networking for SMBs and access to corporate resources from branch and home offices. Features: <ul style="list-style-type: none"> • Controllerless RAP • 2x2 MIMO, 300 Mbps • Internal and external antennas • One Gigabit Ethernet uplink, one 10/100BASE-T port, one USB port 	Secure wired and 802.11n wireless network access for branch, teleworker and other remote office locations. Features: <ul style="list-style-type: none"> • Controllerless RAP • 2x2 MIMO, 300 Mbps • Two internal antennas • Three 10/100BASE-T ports and one USB port 	802.11n AP for outdoor areas, storage yards, warehouses, container and transportation facilities, industrial production areas and other harsh environments. Features: <ul style="list-style-type: none"> • Controllerless outdoor AP • 2x2 MIMO, 300 Mbps per radio • External quad antenna connectors • One Gigabit Ethernet port
	Spectrum analysis	No (hardware capable)	Yes	Yes	Yes	No (hardware capable)	No (hardware capable)	Yes
Number of radios	Software-configurable dual radios [1]	Software-configurable dual radios [1]	Software-configurable dual radios [1]	Software-configurable single radio	Software-configurable dual radios [1]	Software-configurable single radio	Software-configurable dual radios [1]	
Operating frequencies	2.400 to 2.4835 GHz and 5.150 to 5.850 GHz	2.400 to 2.4835 GHz and 5.150 to 5.850 GHz	2.400 to 2.4835 GHz and 5.150 to 5.850 GHz	2.400 to 2.4835 GHz or 5.150 to 5.850 GHz	2.400 to 2.4835 GHz and 5.150 to 5.850 GHz	2.400 to 2.4835 GHz and 5.150 to 5.850 GHz	2.400 to 2.4835 GHz	2.400 to 2.4835 GHz and 5.150 to 5.850 GHz








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DFS support	Yes (ETSI/EU and MKK/JP), planned (FCC/US)	Yes	Yes	Yes	Yes (ETSI/EU and MKK/JP), planned (FCC/US)	Not Applicable	Yes (ETSI/EU and MKK/JP), planned (FCC/US)
Wi-Fi client 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 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.						
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, 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.						
Number of BSSIDs per radio	Up to eight	Up to eight	Up to eight	Up to eight	Up to eight	Up to eight	Up to eight
Antennas	2.4 GHz: Two integrated omni-directional antennas for 2x2 MIMO with maximum antenna gain of 3.0 dBi 5 GHz: Three integrated omni-directional antennas for 3x3 MIMO with maximum antenna gain of 3.0 dBi	AP-134: Three RP-SMA interfaces for external dual-band antennas with 3x3 MIMO AP-135: Six integrated omni-directional antennas with 3x3 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-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	RAP-108: Four RP-SMA interfaces for external dual-band antennas RAP-109: Four integrated omni-directional antennas for 2x2 MIMO with maximum antenna gain of 3.0 dBi in 2.4 GHz and 5 GHz. Built-in antennas are optimized for vertical orientation	Two integrated omni-directional antenna elements with 2x2 MIMO	Four N-type interfaces (two per band) for external 2.4-GHz and 5-GHz antennas with 2x2 MIMO
Network interfaces	ENET0 (uplink): One 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX ENET1-4 (local): Four 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX	Two 100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/DX	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	ENET0 (uplink): One 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX ENET1 (local): One 10/100BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX	Three 10/100BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX One USB 2.0 Type A to connect with 3G/4G networks	One 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX
Other interfaces	Console interface (custom)	Console interface (RJ-45)	Console interface (RJ-45)	Console interface (RJ-45)	Console interface (RJ-45)	Console interface (custom)	Console interface (USB)








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Power over Ethernet (PoE) interfaces		RAP-155P only: 802.3af or 802.3at power sourcing support (PSE) provided two local Ethernet ports Device capable of supplying one full 802.3at power or two full 802.3af power	48V DC 802.3af or 802.3at or PoE+ interoperable with intellisource PSE sourcing intelligence (both ports)	48V DC 802.3af-compatible	48V DC 802.3af-compatible	48V DC 802.3af or 802.3at or PoE+ compatible (USB port disabled when using 802.3af PoE)	RAP-3WN: No RAP-3WNP: Optional 802.3af PoE (15.4 watts) on the E2 port	AP-175P: 802.3at-compatible PoE input (PD) AP-175AC and DC: 802.3af-compatible PoE output (PSE)
DC power interfaces		RAP-155: 12V, 2A RAP-155P: 54V, 1A	12V, 1.25A	12V, 1.25A	12V, 1.25A	12V, 1.25A	RAP-3WN: 12V, 1.25A RAP-3WNP: 48V, 0.75A	AP-175DC: 12-48V
AC power interfaces		100-240 V	Not applicable	Not applicable	Not applicable	Not applicable	100-240 V	AP-175AC: 100-240V
Power consumption		Without USB device connected: 17.5 watts With USB device: 20 watts When sourcing PoE power (RAP-155P only), total power consumption may increase by up to 33 watts	15 watts (maximum)	12.5 watts (maximum)	10 watts (maximum)	Without USB device connected: 12.5 watts With USB device: 15 watts	RAP-3WN: 4 watts/6.5 watts RAP-3WNP: 5.5 watts/8 watts/26 watts	AP-175P: 18 watts (maximum)
Environmental	Class	Indoor	Indoor, plenum-rated	Indoor, plenum-rated	Indoor, plenum-rated	Indoor	Indoor	Outdoor
	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 +50° C (+32° F to +122° F)	0° C to +50° C (+32° F to +122° F)	0° C to +40° C (+32° F to +104° F)	0° C to +40° C (+32° F to +104° 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)
Part numbers	Instant APs	RAP-155 Remote Access Point (wireless, 5x10/100/100BASE-T, USB) RAP-155P Remote Access Point (wireless, 5x10/100/100BASE-T, USB, PoE out)	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-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-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	RAP-108: 802.11a/n and 802.11b/g/n with antenna connectors RAP-109: 802.11a/n and 802.11b/g/n with integrated antennas	RAP-3WN: 802.11b/g/n wireless, three 10/100BASE-T, USB RAP-3WNP: 802.11b/g/n wireless, three 10/100BASE-T, USB, PoE out	AP-175P: PoE powered AP-175AC: AC powered, PoE out AP-175DC: DC powered, PoE out

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Part numbers	Accessories	AP-CBL-SER RAP serial adapter cable (proprietary to DB9 female)	AP-130-MNT wall-mount bracket	AP-105-MNT and AP-105-MNT-DC wall-mount cradle brackets AP-105-MNT-C ceiling-tile rail adapter	AP-90-MNT	RAP-100-MNT wall and ceiling mount kit	RAP-3WN-MNT wall mount AP-CBL-SER console cable	AP-LAR-1 lightning surge arrestor AINS2KKIT-00 outdoor installation kit CBL-AC-NA outdoor AC power cable, North America CBL-AC-INTL outdoor AC power cable, international CBL-DC-VWV outdoor DC power cable CKIT-AC-M weatherproof AC power connector kit CKIT-DC-M weatherproof DC power
	Attachable antennas	Not supported	AP-134: Yes – see Antenna Matrix AP-135: Not supported	AP-104: Yes – see Antenna Matrix AP-105: Not supported	AP-92: Yes – see Antenna Matrix AP-93: Not supported	RAP-108: Yes – see Antenna Matrix RAP-109: Not supported	Not supported	Yes – see Antenna Matrix
	AC power adapters	Adapter ships with unit Spares: AP-AC-12V24UN 12V adapter (RAP-155) AP-AC-54V54 54V adapter (RAP-155P)	AP-AC-UN or AP-AC-12V18	AP-AC-UN or AP-AC-12V18	AP-AC-UN or AP-AC-12V18	AP-AC-UN 12Vdc universal AC power adapter kit (wall plug style) AP-AC-12V18 12Vdc AC power adapter (desktop, inline style). Does not include country specific power cord	Adapter ships with unit Spares: AP-AC-UN or AP-AC-12V18 12V adapter (RAP-3WN) AP-AC-48V36 48V adapter (RAP-3WNP)	Not applicable
	PoE midspan injectors	Not applicable	PD-3501G-AC PD-9001G-AC	PD-3501G-AC	PD-3501G-AC	PD-3501G-AC PD-9001G-AC	Not applicable	PD-9001G-AC PD-9001GO

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Product warranty	Limited lifetime	Limited lifetime	Limited lifetime	Limited lifetime	Limited lifetime	Limited lifetime	One-year parts and labor
Minimum software version	Aruba InstantOS 3.3.0.0	Aruba InstantOS 3.0	Aruba InstantOS 1.0	Aruba InstantOS 1.0	Aruba InstantOS 3.2.0.0	Aruba InstantOS 3.2.0.0	Aruba InstantOS 3.2.0.0

[1] Concurrent operation of both radios in the same frequency band (2.4 GHz and 5 GHz) is not supported



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