








# PRODUCT LINE MATRIX: REMOTE ACCESS POINTS

Model		RAP-2WG	RAP-3WN	RAP-5WN	RAP-100 Series	RAP-155 Series
						
Applications	Description	Secure wired and 802.11b/g wireless network access for small offices and home teleworkers.  Features: <ul style="list-style-type: none"><li>• Managed by a Mobility Controller</li><li>• One 2.4-GHz radio, 54 Mbps</li><li>• One external antenna</li><li>• Two 10/100BASE-T ports</li></ul>	Secure wired and 802.11n wireless network access for branch offices and teleworker offices.  Features: <ul style="list-style-type: none"><li>• Aruba Instant or controller-managed</li><li>• One 2.4-GHz radio, 2x2 MIMO, 300 Mbps</li><li>• Two internal antennas</li><li>• Three 10/100BASE-T ports, one USB port</li></ul>	Secure wired and 802.11n wireless network access for large branch offices and home-teleworker power users.  Features: <ul style="list-style-type: none"><li>• Managed by a Mobility Controller</li><li>• One 2.4- or 5-GHz radio, 3x3 MIMO, 300 Mbps</li><li>• Three internal antennas</li><li>• One Gigabit Ethernet uplink, four 10/100BASE-T ports, one USB port</li></ul>	Secure 802.11n wireless and wired networking to SMBs and access to corporate resources from branch and home offices.  Features: <ul style="list-style-type: none"><li>• Aruba Instant or controller-managed</li><li>• Two 2.4-GHz and 5-GHz radios, 2x2 MIMO, 300 Mbps</li><li>• Internal and external antenna options</li><li>• One Gigabit Ethernet uplink, one 10/100BASE-T port, one USB port</li></ul>	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"><li>• Aruba Instant or controller-managed</li><li>• 2x2 MIMO, 300 Mbps (2.4-GHz radio)</li><li>• 3x3 MIMO, 450 Mbps (5-GHz radio)</li><li>• Two internal antennas for 2.4 GHz and three internal antennas for 5 GHz</li><li>• One Gigabit Ethernet uplink, four Gigabit Ethernet local ports, one USB port</li></ul>
	Campus AP	Yes	Yes	Yes	Yes	Yes
	Remote AP	Yes	Yes	Yes	Yes	Yes
	Mesh	No	Yes	Yes	Yes	Yes
	Remote mesh	No	Yes	Yes	Yes	Yes
	Air Monitor (AM)	802.11b/g WLAN or 802.11b/g air monitor	802.11b/g/n air monitor	802.11a/b/g/n air monitor	802.11a/b/g/n air monitor	802.11a/b/g/n air monitor
	AP and AM	Yes	Yes	Yes	Yes	Yes
	Spectrum Analysis	No	Yes	No	Yes	Yes






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Number of radios	Single radio, 802.11b/g	Single radio, 802.11b/g/n 2x2:2	Single radio, 802.11a/b/g/n 3x3:2	Dual radio, 802.11a/b/g/n 2x2:2	Dual radio, 802.11a/b/g/n <ul style="list-style-type: none"> <li>• 2x2 MIMO, 300 Mbps (2.4-GHz radio)</li> <li>• 3x3 MIMO, 450 Mbps (5-GHz radio)</li> </ul>
Operating frequencies	2.400 GHz to 2.4835 GHz Available channels are dependent upon the configured regulatory domain	2.4000 GHz to 2.4835 GHz Available channels are dependent upon the configured regulatory domain	2.4 GHz or 5 GHz Available channels are dependent upon the configured regulatory domain	2.4 GHz and 5 GHz Available channels are dependent upon the configured regulatory domain	2.400 to 2.4835 GHz and 5.150 to 5.850 GHz Available channels are dependent upon the configured regulatory domain
DFS support	Not applicable	Not applicable	Yes for ETSI/EU, MKK/JP, no for FCC/US	Yes for ETSI/EU and MKK/JP. Planned for FCC. US	Yes for ETSI/EU and MKK/JP. Planned for 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
Antennas	Omni-directional, detachable dipole. Antenna gain: 1.5 dBi	Two integrated omni-directional antenna elements for 2x2 MIMO. Antenna gain: 2.0 dBi	Three integrated omni-directional multiband dipoles. Antenna gain: • 2.4-2.5 GHz: 3.0 dBi • 5.150-5.875 GHz: 5.0 dBi	<ul style="list-style-type: none"> <li>• RAP-108: Two RP-SMA connectors for external dual-band antennas</li> <li>• RAP-109: Four integrated omni-directional antennas for 2x2 MIMO with antenna gain of 5.0 dBi in both 2.4 GHz and 5 GHz. Built-in antennas are optimized for vertical orientation</li> </ul>	<ul style="list-style-type: none"> <li>• 2.4 GHz: Two integrated omni-directional antennas for 2x2 MIMO with maximum antenna gain of 3.0 dBi</li> <li>• 5 GHz: Three integrated omni-directional antennas for 3x3 MIMO with maximum antenna gain of 3.0 dBi</li> </ul>
Network interfaces	Two 10/100BASE-T Ethernet	Three 10/100BASE-T Ethernet	One 10/100/1000BASE-T Ethernet uplink and four 10/100BASE-T Ethernet	One 10/100/1000BASE-T Ethernet uplink and one 10/100BASE-T Ethernet	<ul style="list-style-type: none"> <li>• ENET0 (uplink): One 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX</li> <li>• ENET1-4 (local): Four 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX</li> </ul>

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Other interfaces		None	One USB port to connect a 3G/4G cellular modem, and one proprietary serial console port	One USB port to connect a 3G/4G cellular modem	One USB port to connect a 3G/4G cellular modem (disabled when the device is powered from 802.3af PoE), and one RJ-45 serial console port	One USB port to connect a 3G/4G cellular modem, and one proprietary serial console port
Power-over-Ethernet (PoE) interfaces		No	RAP-3WN: No RAP-3WNP: Yes, 802.3af power source (PSE) on Ethernet port E2	No	Yes, unit can be powered by 802.3af or 802.3at PoE on Ethernet port E0	RAP-155P only: 802.3af or 802.3at power sourcing support (PSE) provided on two local Ethernet ports E1 and E2  Device capable of supplying one full 802.3at power or two full 802.3af power
DC power interfaces		12V/1A	RAP-3WN: 12V/1.25A RAP-3WNP: 48V/0.75A	12V/1.25A	12V/1.5A	RAP-155: 12V/2A RAP-155P: 54V/1A
AC power interface		100-240V/0.3A	RAP-3WN: 100-240V/0.5A RAP-3WNP: 100-240V/0.75A	100-240V/0.5A	100-240V/0.5A	100/240V
Power consumption (baseline/plus USB/plus PoE)		6.5 watts	RAP-3WN: 4 watts/6.5 watts RAP-3WNP: 5.5 watts/8 watts/26 watts	12 watts/14.5 watts	12.5 watts/15 watts	Without USB device connected: 15.5 watts  With USB device: 18 watts  When sourcing PoE power (RAP-155P only), total power consumption may increase by up to 34 watts
Environmental	Class	Indoor	Indoor	Indoor	Indoor	Indoor
	Operating temperature	0° C to +40° C (+32° F to +104° F)	0° C to +40° C (+32° F to +104° F)	0° C to +40° C (+32° F to +104° F)	0° C to +40° C (+32° F to +104° F)	0° C to +40° C (+32° F to +104° F)
Part numbers	Access points	RAP-2WG with AC power adapter kit	RAP-3WN (wireless, three 10/100BASE-T, USB)	RAP-5WN (802.11a/n or b/g/n) with US power adapter RAP-5WN (802.11a/n or b/g/n) with universal power adapter	Aruba Instant RAP-108, 802.11a/b/g/n, 2x2:2, dual radio, antenna connectors Aruba Instant RAP-109, 802.11a/b/g/n, 2x2:2, dual radio, integrated antennas	RAP-155 Remote Access Point (wireless, 5x10/100/100BASE-T, USB) RAP-155P Remote Access Point (wireless, 5x10/100/100BASE-T, USB, PoE out)
	Accessories	None	RAP-3WN-MNT: Wall mount AP-CBL-SER: Proprietary console cable	RAP-5WN-MNT: Wall mount	RAP-100-MNT: Aruba RAP-100 series access point wall and ceiling mount kit	AP-CBL-SER RAP serial adapter cable (proprietary to DB9 female).
	Attachable antennas	Not supported	Not supported	Not supported	See indoor antenna product line matrix	Not supported

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Model		RAP-2WG	RAP-3WN	RAP-5WN	RAP-100 Series	RAP-155 Series
						
Part numbers	AC power adapters	Adapter ships with unit only. Not orderable as spare.	Product ships with adapter. Orderable spares: <ul style="list-style-type: none"> <li>• AP-AC-UN (for RAP-3WN): 12Vdc/18W universal AC power adapter kit (wall plug style)</li> <li>• AP-AC-12V18 (for RAP-3WN): 12Vdc/18W AC power adapter (desktop, inline style)</li> <li>• AP-AC-48V36 (for RAP-3WNP): 48Vdc/36W AC power adapter (desktop, inline style)</li> </ul>	Product ships with adapter. Orderable spares: <ul style="list-style-type: none"> <li>• AP-AC-UN: 12Vdc/18W universal AC power adapter kit (wall plug style)</li> <li>• AP-AC-12V18: 12Vdc/18W AC power adapter (desktop, inline style)</li> </ul>	Product does not ship with adapter. Compatible models: <ul style="list-style-type: none"> <li>• AP-AC-UN: 12Vdc/18W universal AC power adapter kit (wall plug style)</li> <li>• AP-AC-12V18: 12Vdc/18W AC power adapter (desktop, inline style)</li> </ul>	Adapter ships with unit. Spares: <ul style="list-style-type: none"> <li>• AP-AC-12V24UN 12V adapter (RAP-155)</li> <li>• AP-AC-54V54 54V adapter (RAP-155P)</li> </ul>
	PoE midspan Injectors	Not applicable	Not applicable	Not applicable	<ul style="list-style-type: none"> <li>• PD-3501G-AC: Single port 802.3af PoE injector (15.4W)</li> <li>• PD-9001GR-AC: Single port 802.3at PoE injector (30W)</li> </ul>	Not applicable
Product warranty		One-year parts and labor	Limited lifetime	Limited lifetime	Limited lifetime	Limited lifetime
Minimum software version		ArubaOS 5.0	ArubaOS 6.1.4.0 InstantOS 3.0.0.0	ArubaOS 5.0	ArubaOS 6.2.0.0 InstantOS 3.2.0.0	ArubaOS 6.3.0.0 InstantOS 3.3.0.0


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