













PRODUCT LINE MATRIX: INSTANT ACCESS POINTS


INSTANT ACCESS POINTS PRODUCT LINE MATRIX

MODEL	OMNIACCESS AP134/135	OMNIACCESS 100 SERIES	OMNIACCESS 90 SERIES	OMNIACCESS RAP3	OMNIACCESS RAP 108/109	OMNIACCESS AP175	
							
Applications	Description	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 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	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	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	Yes	Yes	Yes	No	No	Yes	
Number of radios	Software-configurable dual radios [1]	Software-configurable dual radios [1]	Software-configurable single radio	Software-configurable single radio	Software-configurable dual radios	Software-configurable dual radios [1]	
Operating frequencies	2.400 to 2.4835 GHz 5.150 to 5.875 GHz	2.400 to 2.4835 GHz 5.150 to 5.875 GHz	2.400 to 2.4835 GHz 5.150 to 5.875 GHz	2.400 to 2.4835 GHz	2.4000 GHz to 2.4835 GHz 5.150 to 5.250 GHz 5.250 to 5.350 GHz 5.470 to 5.725 GHz 5.725 to 5.875 GHz	2.400 to 2.4835 GHz 5.150 to 5.875 GHz	
DFS support	Yes	Yes	Yes	Not Applicable	Yes (ETSI/EU and MKK/JP), planned (FCC/US)	Yes (ETSI/EU and MKK/JP), planned (FCC/US)	
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.						
Number of BSSIDs per radio	Up to eight	Up to eight	Up to eight	Up to eight	Up to eight	Up to eight	

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Antennas	<p>AP-134: Three RP-SMA interfaces for external dual-band antennas with 3x3 MIMO</p> <p>AP-135: Six integrated omnidirectional antennas with 3x3 MIMO</p>	<p>AP-104: Four RP-SMA interfaces (two per band) for external 2.4-GHz and 5-GHz antennas with 2x2 MIMO</p> <p>AP-105: Four integrated omni-directional dual-band dipole antennas with 2x2 MIMO</p>	<p>AP-92: Two RP-SMA interfaces for external dual-band antennas with 2x2 MIMO</p> <p>AP-93: Two integrated omni-directional dual-band antennas with 2x2 MIMO</p>	Two integrated omnidirectional antenna elements with 2x2 MIMO	<p>RAP-108: Four RP-SMA interfaces for external dual-band antennas.</p> <p>RAP-109: Four integrated omnidirectional 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.</p>	Four N-type interfaces (two per band) for external 2.4-GHz and 5-GHz antennas with 2x2 MIMO
Network interfaces	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	<p>Three 10/100BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX</p> <p>One USB 2.0 Type A to connect with 3G/4G networks</p>	<p>ENET0 (uplink): One 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX</p> <p>ENET1 (local): One 10/100BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX</p>	One 10/100/1000BASE-T Ethernet (RJ-45), auto-sensing link speed and MDI/MDX
Other interfaces	Console interface (RJ-45)	Console interface (RJ-45)	Console interface (RJ-45)	Console interface (custom)	Console interface (RJ-45)	Console interface (USB)
Power over Ethernet (PoE) interfaces	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	<p>RAP-3WN: No</p> <p>RAP-3WNP: Optional 802.3af PoE (15.4 watts) on the E2 port</p>	48V DC 802.3af or 802.3at or PoE+ compatible (USB port disabled when using 802.3af PoE)	<p>AP175POE: 802.3at-compatible PoE input (PD)</p> <p>AP-175AC and DC: 802.3af-compatible PoE output (PSE)</p>
DC power interfaces	12V, 1.25A	12V, 1.25A	12V, 1.25A	<p>RAP-3WN: 12V, 1.25A</p> <p>RAP-3WNP: 48V, 0.75A</p>	12V, 1.25A	AP-175DC: 12-48V
AC power interfaces	Not applicable	Not applicable	Not applicable	<p>RAP-3WN: 100-240V/0.5A</p> <p>RAP-3WNP: 100-240V/0.75A</p>	Not applicable	AP-175AC: 100-240V
Power consumption	15 watts (maximum)	12.5 watts (maximum)	10 watts (maximum)	<p>RAP-3WN: 4 watts/6.5 watts</p> <p>RAP-3WNP: 5.5 watts/8 watts/26 watts</p>	<p>Without USB device connected: 12.5 watts</p> <p>With USB device: 15 watts</p>	AP175POE: 18 watts (maximum)
Environmental						
Class	Indoor, plenum-rated	Indoor, plenum-rated	Indoor, plenum-rated	Indoor	Indoor	Outdoor
Operating temperature	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)	<p>AP175POE: -30° C to +60° C (-22° F to +140° F)</p> <p>AP-175AC and DC: -40° C to +55° C (-40° F to +131° F)</p>

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Part numbers	Instant APs 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 flatceiling 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-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	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	AP-175P: PoE powered AP-175AC: AC powered, PoE out AP-175DC: DC powered, PoE out
Accessories	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-3WN-MNT wall mount AP-CBL-SER console cable	RAP-100-MNT wall and ceiling mount kit	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
Attachable antennas	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	Not supported	RAP-108: Yes - see Antenna Matrix RAP-109: Not supported	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	Ships with unit AP-AC-UN or AP-AC- 12V18 12V adapter (spare) AP-AC-48V36 48V adapter (spare)	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.	Not applicable
PoE midspan injectors	PD-3501G-AC PD-9001G-AC	PD-3501G-AC	PD-3501G-AC	Not applicable	PD-3501G-AC PD-9001G-AC	PD-9001G-AC PD-9001GO
Product warranty	Limited lifetime	Limited lifetime	Limited lifetime	Limited lifetime	Limited lifetime	Limited lifetime
Minimum software version	AOS-W 6.1 release or later	AP104: AOS 6.1.3.0 on an Alcatel-Lucent WLAN Controller AP105: AOS 3.4.1.0 on an Alcatel-Lucent WLAN Controller	AOS 5.0.4.2, 6.0.2.1, 6.1.2.0 on an Alcatel-Lucent WLAN Controller	AOS-W 6.2 release or later on an Alcatel-Lucent WLAN Controller Instant 3.0	AOS-W 6.2 release or later on an Alcatel-Lucent WLAN Controller Instant 3.0	Minimum AOS 5.0.2.1 on an Alcatel-Lucent WLAN Controller