

### Overview

#### Aruba 500 Series Campus Access Points

##### Cost-Effective Wi-Fi 6 (802.11ax) For Medium-Density Indoor Environments

These affordable Wi-Fi 6 access points provide high-performance connectivity for any organization experiencing growing numbers of mobile, IoT and mobility requirements. With a maximum aggregate data rate of 1.77 Gbps (1.774 Gbps), they deliver the speed and reliability needed for venues and workplaces such as schools, midsize offices and retailers.

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#### Aruba 500 Series Campus Access Points

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##### Key Features

- 1.77 Gbps of maximum throughput
  - WPA3 and Enhanced Open security
  - Built-in technology that resolves sticky client issues for Wi-Fi 6 and Wi-Fi 5 devices
  - OFDMA and MU-MIMO for enhanced multi-user efficiency
  - IoT-ready Bluetooth 5 and Zigbee support
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## Standard Features

### Incredible Efficiency

The 500 Series APs are also designed to optimize user experience by maximizing Wi-Fi efficiency and dramatically reducing airtime contention between clients.

Features include Orthogonal frequency-division multiple access (OFDMA), bi-directional multi-user MIMO and cellular optimization. With up to 2 spatial streams (2SS) and 80MHz channel bandwidth (HE80), the 500 Series provides groundbreaking wireless capabilities for budget-conscious deployments.

Read the Multi-User 802.11ax [white paper](#) for further information.

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### Advantages of OFDMA

This capability allows Aruba's APs to handle multiple Wi-Fi 6 capable clients on each channel simultaneously, regardless of device or traffic type. Channel utilization is optimized by handling each transaction via smaller sub-carriers or resource units (RUs), which means that clients are sharing a channel and not competing for airtime and bandwidth.

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### Aruba Air Slice™ For Extended Application Assurance

Initially, APs in controller-less mode (Instant) can provide SLA-grade performance by allocating radio resources, such as time, frequency, and spatial streams, to specific traffic types. By combining Aruba's Policy Enforcement Firewall (PEF) and Layer 7 deep packet inspection (DPI) to identify user roles and applications, the APs will dynamically allocate the bandwidth needed. Non-Wi-Fi 6 clients can also benefit.

Air Slice™ for APs uses Aruba Central for management. Controller-based APs will be supported in a future software release.

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### Multi-User MIMO (MU-MIMO)

The 500 Series AP supports downlink MU-MIMO just like Wi-Fi 5 (802.11ac Wave 2) APs. The added benefit is the ability to multiply the number of clients that can now send traffic, thus optimizing client-to-AP spatial stream diversity.

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### Wi-Fi 6 And MU-MIMO Aware Client Optimization

Aruba's patented AI-powered ClientMatch technology eliminates sticky client issues by placing Wi-Fi 6 capable devices on the best available AP. Session metrics are used to steer mobile devices to the best AP based on available bandwidth, types of applications being used and traffic type – even as users roam.

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### Aruba Advanced Cellular Coexistence (ACC)

This feature uses built-in filtering to automatically minimize the impact of interference from cellular networks, distributed antenna systems (DAS), and commercial small cell or femtocell equipment.

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### Intelligent Power Monitoring (IPM)

Aruba APs continuously monitor and report hardware energy consumption. They can also be configured to enable or disable capabilities based on available PoE power – ideal when wired switches have exhausted their power budget.

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### Green AP Energy Efficiency

Aruba Wi-Fi 6 APs utilize analytics from NetInsight to automatically transition in and out of a sleep mode based on client density. Learn more in the [Green AP At-A-Glance](#).

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### IoT Platform Capabilities

Like all Aruba Wi-Fi 6 APs, the 500 Series includes an integrated Bluetooth 5 and 802.15.4 radio (for Zigbee support) to simplify deploying and managing IoT-based location services, asset tracking services, security solutions and IoT sensors. This allows organizations to leverage the 500 Series as an IoT platform, which eliminates the need for an overlay infrastructure and additional IT resources.

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## Standard Features

### Target Wake Time (TWT)

Ideal for IoTs that communicate infrequently, TWT establishes a schedule for when clients need to communicate with an AP. This helps improve client power savings and reduces airtime contention with other clients..

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### Aruba Secure Infrastructure

The Aruba 500 Series includes components of Aruba's 360 Secure Fabric to help protect user authentication and wireless traffic. Select capabilities include the following.

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### WPA3 and Enhanced Open

Support for stronger encryption and authentication is provided via the latest version of WPA for enterprise protected networks. Enhanced Open offers seamless new protection for users connecting to open networks where each session is automatically encrypted to protect user passwords and data on guest networks.

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### WPA2-MPSK

MPSK enables simpler passkey management for WPA2 devices – should the Wi-Fi password on one device or device type change, no additional changes are needed for other devices. Requires ClearPass Policy Manager.

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### VPN Tunnels

In Remote AP (RAP) and IAP-VPN deployments, the Aruba 500 Series can be used to establish a secure SSL/IPSec VPN tunnel to a Mobility Controller that is acting as a VPN concentrator.

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### Trusted Platform Module (TPM)

For enhanced device assurance, all Aruba APs have an installed TPM for secure storage of credentials and keys, and boot code.

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### Simple and Secure Access

To simplify policy enforcement, the Aruba 500 Series uses Aruba's policy enforcement firewall (PEF) feature to encapsulate all traffic from the AP to the Mobility Controller (or Gateway) for end-to-end encryption and inspection. Policies are applied based on user role, device type, applications, and location. This reduces the manual configuration of SSIDs, VLANs and ACLs. PEF also serves as the underlying technology for Aruba Dynamic Segmentation.

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### High-Density Connectivity

Each 500 Series AP provides connectivity for a maximum of 256 associated clients per radio (512 in total). In real-world scenarios, the maximum recommended client density is dependent on environmental conditions.

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### Flexible Operation and Management

A unique feature of Aruba APs is the ability to operate in either controllerless (Instant) or controller-based mode.

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### Controller-Less (Instant) Mode

In controllerless mode, one AP serves as a virtual controller for the entire network. Learn more about Instant mode in [this technology brief](#).

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### Mobility Controller Mode

For optimized network performance, roaming and security, APs tunnel all traffic to a mobility controller for centrally managed traffic forwarding and segmentation, data encryption, and policy enforcement. Learn more in the [ArubaOS datasheet](#).

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## Standard Features

### Management Options

Available management solutions include Aruba Central (cloud-managed) or Aruba AirWave – a multi-vendor on-premises management solution.

For large installations across multiple sites, APs can be factory-shipped and can be activated with Zero Touch Provisioning through Aruba Central or AirWave. This reduces deployment time, centralizes configuration, and helps manage inventory. APs tunnel all traffic to a mobility controller for centrally managed traffic forwarding and segmentation, data encryption, and policy enforcement. Learn more in the [ArubaOS datasheet](#).

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### Additional Wi-Fi Features

Each AP also includes the following standards-based technologies:

- Transmit beamforming (TxBF) increases signal reliability and range
  - Passpoint Wi-Fi (Release 2) (Hotspot 2.0) offers seamless cellular-to-Wi-Fi carryover for guests
  - Dynamic Frequency Selection (DFS) optimizes use of available RF spectrum
  - Maximum Ratio Combining (MRC) improves receiver performance
  - Cyclic Delay/Shift Diversity (CDD/CSD) provides greater downlink RF performance
  - Space-Time Block Coding increases range and improved reception
  - Low-Density Parity Check (LDPC) provides a high-efficiency error correction for increased throughput
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### Mechanical Specifications

- Dimensions/weight (AP-505; unit, excluding mount bracket):
    - 160mm (W) x 161mm (D) x 37mm (H) 500g
  - Dimensions/weight (AP-505; shipping):
    - 193mm (W) x 183mm (D) x 63mm (H) 645g
  - Mounting details: A mounting bracket has been pre-installed on the back of the AP. This bracket is used to secure the AP to any of the mount kits (sold separately); see the 500 Series Ordering Guide for details.
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## Configuration Information

### Step 1: Select AP Model

Remarks	Description	SKU
	<b>505 Internal Antenna Access Points</b>	
<b>Notes:</b>	<a href="#">Add Mount Kit</a>	
	Aruba AP-505 (EG) Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H25A
	Aruba AP-505 (IL) Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H26A
	Aruba AP-505 (JP) Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H27A
	Aruba AP-505 (RW) Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H28A
	Aruba AP-505 (US) Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H29A
	<b>504 External Antenna Access Points</b>	
<b>Notes:</b>	<a href="#">Add Mount Kit, Antenas</a>	
	Aruba AP-504 (EG) Dual Radio 2x2:2 802.11ax External Antennas Unified Campus AP	R2H19A
	Aruba AP-504 (IL) Dual Radio 2x2:2 802.11ax External Antennas Unified Campus AP	R2H20A
	Aruba AP-504 (JP) Dual Radio 2x2:2 802.11ax External Antennas Unified Campus AP	R2H21A
	Aruba AP-504 (RW) Dual Radio 2x2:2 802.11ax External Antennas Unified Campus AP	R2H22A
	Aruba AP-504 (US) Dual Radio 2x2:2 802.11ax External Antennas Unified Campus AP	R2H23A
	<b>505 Central Managed Internal Antenna Access Points</b>	
	Aruba CM AP-505 (RW) Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H28ACM
	Aruba CM AP-505 (US) Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H29ACM
	<b>505 Internal Antenna Access Points - TAA Models</b>	
<b>Notes:</b>	<a href="#">Add Mount Kit</a>	
	Aruba AP-505 (EG) TAA Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H35A
	Aruba AP-505 (IL) TAA Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H36A
	Aruba AP-505 (JP) TAA Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H37A
	Aruba AP-505 (RW) TAA Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H38A
	Aruba AP-505 (US) TAA Dual Radio 2x2:2 802.11ax Internal Antennas Unified Campus AP	R2H39A
	<b>504 External Antenna Access Points - TAA Models</b>	
<b>Notes:</b>	<a href="#">Add Mount Kit, Antenas</a>	
	Aruba AP-504 (EG) TAA Dual Radio 2x2:2 802.11ax External Antennas Unified Campus AP	R2H30A
	Aruba AP-504 (IL) TAA Dual Radio 2x2:2 802.11ax External Antennas Unified Campus AP	R2H31A
	Aruba AP-504 (JP) TAA Dual Radio 2x2:2 802.11ax External Antennas Unified Campus AP	R2H32A
	Aruba AP-504 (RW) TAA Dual Radio 2x2:2 802.11ax External Antennas Unified Campus AP	R2H33A
	Aruba AP-504 (US) TAA Dual Radio 2x2:2 802.11ax External Antennas Unified Campus AP	R2H34A



## Configuration Information

### Step 2: Add Powering Accessories (Optional)

Remarks	Description	SKU
	<b>Select one of the following:</b>	
<b>Notes:</b>	Add AC power cord Most devices are PoE powered from switch so these are optional	
	<b>Compatible with 504 and 505+F63 AP models</b>	
	AP-AC-12V30B 12V/30W AC/DC Desktop Style 2.1/5.5/9.5mm Circular 90 Deg Plug DoE Level VI Adapter	JX990A
	Aruba PD-3510G-AC 15.4W 802.3af PoE 10/100/1000Base-T Ethernet Midspan Injector	JW627A
	Aruba PD-9001GR-AC 30W 802.3at PoE+ 10/100/1000 Ethernet Indoor Rated Midspan Injector	JW629A
	AP-AC2-12B 12V/48W AC/DC desktop style power adapter with 2.1/5.5mm connector	R3K00A
	AP-POE-ATSR 1-Port Smart Rate 802.3at 30W midspan injector	R6P67A
	AP-POE-AFGE 1-Port GbE 802.3af 15.4W midspan injector	R6P68A
	<b>Compatible with 505C AP models</b>	
	Aruba CM AP-AC-12V30B 12V/30W AC/DC desktop style power adapter with type B connector	JX990ACM
	Aruba CM AP-AC2-12B 12V/48W AC/DC desktop style power adapter with 2.1/5.5mm connector	R3K00ACM
	Aruba CM PD-3501G-AC 15.4W 802.3af PoE 10/100/1000Base-T Ethernet Midspan Injector	JW627ACM
	Aruba CM PD-9001GR-AC 802.3at PoE+ 10/100/1000 Ethernet Indoor Rated Midspan Injector	JW629ACM
	<b>Select three-prong AC power cord for injector or AC adapter</b>	
	PC-AC-ARG AC power cord 250V/10A 1.8m C13 to IRAM 2073	JW113A
	PC-AC-AUS AC power cord 250V/10A 1.8m C13 to AS3112	JW114A
	PC-AC-BR AC power cord 250V/10A 1.8m C13 to NBR 14136	JW115A
	PC-AC-CHN AC power cord 250V/10A 1.8m C13 to GB2099	JW116A
	PC-AC-DEN AC power cord 250V/10A 1.8m C13 to AFSNIT 107-2-D1	JW117A
	PC-AC-EC AC power cord 250V/10A 1.8m C13 to CEE7/7	JW118A
	PC-AC-IN AC power cord 250V/6A 1.8m C13 to IS1293	JW119A
	PC-AC-IL AC power cord 250V/10A 1.8m C13 to SI32	JW120A
	PC-AC-IT AC power cord 250V/10A 1.8m C13 to CEI 23-50	JW121A
	PC-AC-JPN AC power cord 125V/12A 1.8m C13 to JISC 8303	JW122A
	PC-AC-KOR AC power cord 250V/7A 1.8m C13 to KSC 8305	JW123A
	PC-AC-NA AC power cord 125V/10A 1.8m C13 to NEMA 5-15P	JW124A
	PC-AC-SWI AC power cord 220V/10A 1.8m C13 to SEV 1011	JW125A
	PC-AC-TW AC power cord 125V/7A 1.8m C13 to CNS 10917	JW126A
	PC-AC-UK AC power cord 250V/10A 1.8m C13 to BS1363	JW127A
	PC-AC-ZA AC power cord 250V/10A 1.8m C13 to SANS 164-1	JW128A

## Configuration Information

### Step 3: Select Mounting kits

For 504, 505 Series Std (Min 0 // max 99) User Selection (min 0 // max 99)

Remarks	Description	SKU
	<b>Compatible with 504 and 505 AP models</b>	
	AP-MNT-MP10-A Campus AP mount bracket kit (10-pack) type A: suspended ceiling rail	JZ370A
	AP-MNT-MP10-B Campus AP mount bracket kit (10-pack) type B: suspended ceiling rail	Q9G69A
	AP-MNT-MP10-C Campus AP mount bracket kit (10-pack) type C: suspended ceiling rail	Q9G70A
	AP-MNT-MP10-D Campus AP mount bracket kit (10-pack) type D: solid surface	Q9G71A
	AP-MNT-MP10-E Campus AP mount bracket kit (10-pack) type E: wall-box	R1C72A
<b>Notes:</b>	<b>Qty 1 Mounting kits above should be selected for every 10 Access Points.</b>	
	AP-MNT-A Campus AP mount bracket kit (individual) type A: suspended ceiling rail flat 9/16	R3J15A
	AP-MNT-B Campus AP mount bracket kit (individual) type B: suspended ceiling rail flat 15/16	R3J16A
	AP-MNT-C Campus AP mount bracket kit (individual) type C: suspended ceiling rail profile 9/16	R3J17A
	AP-MNT-D Campus AP mount bracket kit (individual) type D: solid surface	R3J18A
	AP-MNT-E Campus AP mount bracket kit (individual) type E: wall-box	R3J19A
	AP-MNT-MP10-X Campus AP mount adapter kit (10-pack)	R3T20A
	<b>Compatible with 505C AP models</b>	
	Aruba CM AP-MNT-A Campus AP mount bracket kit (individual) type A: flat rail 9/16	R3J15ACM
	Aruba CM AP-MNT-MP10-A Campus AP mount bracket kit (10-pack) type A: flat rail 9/16	JZ370ACM
	Aruba CM AP-MNT-B Campus AP mount bracket kit (individual) type B: flat rail 15/16	R3J16ACM
	Aruba CM AP-MNT-MP10-B Campus AP mount bracket kit (10-pack) type B: flat rail 15/16	Q9G69ACM
	Aruba CM AP-MNT-C Campus AP mount bracket kit (individual) type C: profile rail 9/16	R3J17ACM
	Aruba CM AP-MNT-MP10-C Campus AP mount bracket kit (10-pack) type C: profile rail 9/16	Q9G70ACM
	Aruba CM AP-MNT-D Campus AP mount bracket kit (individual) type D: solid surface	R3J18ACM
	Aruba CM AP-MNT-MP10-D Campus AP mount bracket kit (10-pack) type D: solid surface	Q9G71ACM
	Aruba CM AP-MNT-E Campus AP mount bracket kit (individual) type E: wall-box	R3J19ACM
	Aruba CM AP-MNT-MP10-E Campus AP mount bracket kit (10-pack) type E: wall-box	R1C72ACM
	Aruba CM AP-MNT-MP10-X Campus AP mount adapter kit (10-pack)	R3T20ACM
<b>Notes:</b>	<b>Access Points do not include a Mount. Qty 1 Mount kits should be selected</b>	



## Configuration Information

### Step 4: Select Antennas (AP-504 only)

Qty	Interface(s)	Target Environment	Mounting	Description	SKU
4	1x RP-SMA male connector	Indoor	Direct-mount	AP-ANT-1W 2.4-2.5GHz (4dBi)/4.9-5.875GHz (6dBi) Hi Gain Dual-band Omni-Dir Indoor Antenna	JW009A
4	1x RP-SMA male pigtail	Indoor	Direct, using pigtails	AP-ANT-13B 2.4-2.5GHz (2.3dBi)/4.9-5.9GHz (4.0dBi) Downtilt Smallest Omni-Dir Single Ant	JW001A
4	1x RP-SMA male pigtail	Indoor/outdoor	Direct, using pigtails	AP-ANT-19 2.4/5G Dual Band Omni-Dir 3dBi/6dBi Indr/Otdr RPSMA Cnctr Ant w/36in Intgrtd Cable	JW004A
4	1x RP-SMA male connector	Indoor	Direct-mount	AP-ANT-20W 2.4-2.5GHz (2dBi)/4.9-5.875GHz (2dBi) Compact Omni-Dir DMt Indr White Antenna	JW011A
1	4x RP-SMA male pigtail	Indoor	Direct, using pigtails	AP-ANT-16 2.4-2.5Ghz (3.9dBi)/4.9-5.9GHz (4.7dBi) 3 Elmt MIMO Ant w/Downtilt Omni-Dir Antenna	JW003A
1	4x RP-SMA male pigtail	Indoor/outdoor	Direct, using pigtails	AP-ANT-25A Dual Band 90x90deg 5dBi +/- 45 Pol 2 Element MIMO 2xRPSMA Pigtail Antenna	JW012A
1	4x RP-SMA male pigtail	Indoor/outdoor	Direct, using pigtails	AP-ANT-28 Dual Band 60x60deg 7.5dBi +/- 45 Pol 2 Element MIMO 2xRPSMA Pigtail Antenna	JW013A

#### Notes:

- AP-ANT-1W, and AP-ANT-20W are usually direct connect to the chassis
- AP-ANT-25A, AP-ANT-28 ship with hardware for flush mount to a flat surface
- AP-504 has 2x RPSMA female, concurrent dual-band connections

### Step 5: Add Antenna Mount Kit (Optional)

For 504 Series Std (Min 0 // max 1) User Selection (min 0 // max 1)

Remarks	Description	SKU
	AP-ANT-MNT-3 AP-ANT-25A/28/35A/38 Azimuth and Elevation Adjustable Mount Kit	JW020A

**Notes:** AP-ANT-MNT-3 compatible with AP-ANT-25A and AP-ANT-28

### Step 6: Add Cosmetic Snap-on Cover (Optional)

For 505 Series Std (Min 0 // max 99) User Selection (min 0 // max 99)

Remarks	Description	SKU
	<b>Compatible with 505 AP models</b>	
	AP-MNT-MP10-B1 Campus AP mount bracket kit (10-pack) type B1 - suspended ceiling rail thick 15/16	R6T34A
	AP-505-CVR-20 20-pk for AP-505 White Non-glossy Snap-on Covers	R2H24A
<b>Notes:</b>	Kit contains 20 optional snap-on covers	
	<b>Compatible with 505C AP models</b>	
	Aruba CM AP-505-CVR-20 20-pk White Non-glossy Snap-on Covers	R2H24ACM
<b>Notes:</b>	Kit contains 20 optional snap-on covers	





## Configuration Information

### Step 7: Add other accessories (Optional)

For 504, 505 Series Std (Min 0 // max 99) User Selection (min 0 // max 99)

Remarks	Description	SKU
	<b>Compatible with 504 and 505 AP models</b>	
	AP-MOD-SERU Micro-USB TTL3.3V to RJ45 RS232 AP Console Adapter Module	R6Q99A
	AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable	JY728A
	<b>Compatible with 505C AP models</b>	
	Aruba CM AP-CBL-SERU AP console adapter cable for custom micro-USB console port	JY728ACM

### Step 8: Add Software (Optional)

Remarks	Description	SKU
	Aruba Central AP Foundation 1 year Subscription E-STU	Q9Y58AAE
	Aruba Central AP Foundation 3 year Subscription E-STU	Q9Y59AAE
	Aruba Central AP Foundation 5 year Subscription E-STU	Q9Y60AAE
	Aruba Central AP Foundation 7 year Subscription E-STU	Q9Y61AAE
	Aruba Central AP Foundation 10 year Subscription E-STU	Q9Y62AAE
	Aruba Central AP Advanced 1yr Subscription E-STU	Q9Y63AAE
	Aruba Central AP Advanced 3yr Subscription E-STU	Q9Y64AAE
	Aruba Central AP Advanced 5yr Subscription E-STU	Q9Y65AAE
	Aruba Central AP Advanced 7yr Subscription E-STU	Q9Y66AAE
	Aruba Central AP Advanced 10yr Subscription E-STU	Q9Y67AAE
<b>Notes:</b>	<a href="#">Add the Central Cloud Skus to the Aruba Catalog as Standalone: Aruba &gt; Network Management &gt; Central &gt; Cloud Services</a>	
	Aruba Central On-Premises AP Foundation 1 year Subscription E-STU	R6U63AAE
	Aruba Central On-Premises AP Foundation 3 year Subscription E-STU	R6U64AAE
	Aruba Central On-Premises AP Foundation 5 year Subscription E-STU	R6U65AAE
	Aruba Central On-Premises AP Foundation 7 year Subscription E-STU	R6U66AAE
	Aruba Central On-Premises AP Foundation 10 year Subscription E-STU	R6U67AAE
<b>Notes:</b>	<a href="#">Add the Central On-Prem Skus to the Aruba Catalog as Standalone: Aruba &gt; Network Management &gt; Central &gt; On-Prem Services</a>	



## Technical Specifications

RF performance table		
Band, rate	Maximum transmit power (dBm) per transmit chain	Receiver sensitivity (dBm) per receive chain
<b>2.4GHz, 802.11b</b>		
1Mbps	18	-98
11Mbps	18	-90
<b>2.4GHz, 802.11g</b>		
6Mbps	18	-93
54Mbps	18	-76
<b>2.4GHz, 802.11n HT20</b>		
MCS0	18	-93
MCS7	16	-75
<b>2.4GHz, 802.11ax HE20</b>		
MCS0	18	-93
MCS11	14	-62
<b>5GHz, 802.11a</b>		
6Mbps	18	-92
54Mbps	18	-75
<b>5GHz, 802.11n HT20</b>		
MCS0	18	-92
MCS7	16	-74
<b>5GHz, 802.11n HT40</b>		
MCS0	18	-90
MCS7	16	-71
<b>5GHz, 802.11ac VHT20</b>		
MCS0	18	-92
MCS9	16	-69
<b>5GHz, 802.11ac VHT40</b>		
MCS0	18	-90
MCS9	16	-65
<b>5GHz, 802.11ac VHT80</b>		
MCS0	18	-87
MCS9	16	-62
<b>5GHz, 802.11ax HE20</b>		
MCS0	18	-93
MCS11	14	-62
<b>5GHz, 802.11ax HE40</b>		
MCS0	18	-90
MCS11	14	-59
<b>5GHz, 802.11ax HE80</b>		
MCS0	18	-87
MCS11	14	-56



## Technical Specifications

### Wi-Fi Radio Specifications

- AP type: Indoor, dual radio, 5GHz and 2.4GHz 802.11ax 2x2 MIMO
- 5GHz radio: Two spatial stream Single User (SU) MIMO for up to 1.2Gbps wireless data rate with individual 2SS HE80 802.11ax client devices, or with two 1SS HE80 802.11ax MU-MIMO capable client devices simultaneously
- 2.4GHz radio: Two spatial stream Single User (SU) MIMO for up to 574Mbps wireless data rate with individual 2SS HE40 802.11ax client devices or with two 1SS HE40 802.11ax MU-MIMO capable client devices simultaneously
- Support for up to 256 associated client devices per radio, and up to 16 BSSIDs per radio
- Supported frequency bands (country-specific restrictions apply):
  - 2.400 to 2.4835GHz
  - 5.150 to 5.250GHz
  - 5.250 to 5.350GHz
  - 5.470 to 5.725GHz
  - 5.725 to 5.850GHz
- Available channels: Dependent on configured regulatory domain
- Dynamic frequency selection (DFS) optimizes the use of available RF spectrum
- Supported radio technologies:
  - 802.11b: Direct-sequence spread-spectrum (DSSS)
  - 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM)
  - 802.11ax: Orthogonal frequency-division multiple access (OFDMA) with up to 8 resource units
- Supported modulation types:
  - 802.11b: BPSK, QPSK, CCK
  - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM (proprietary extension)
  - 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM (proprietary extension)
  - 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
- 802.11n high-throughput (HT) support: HT20/40
- 802.11ac very high throughput (VHT) support: VHT20/40/80
- 802.11ax high efficiency (HE) support: HE20/40/80
- Supported data rates (Mbps):
  - 802.11b: 1, 2, 5.5, 11
  - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
  - 802.11n: 6.5 to 300 (MCS0 to MCS15, HT20 to HT40), 400 with 256-QAM
  - 802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2, VHT20 to VHT80), 1,083 with 1024-QAM
  - 802.11ax (2.4GHz): 3.6 to 574 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE40)
  - 802.11ax (5GHz): 3.6 to 1,201 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE80)
- 802.11n/ac packet aggregation: A-MPDU, A-MSDU
- Transmit power: Configurable in increments of 0.5 dBm
- Maximum (aggregate, conducted total) transmit power (limited by local regulatory requirements):
  - 2.4 GHz band: +21 dBm (18dBm per chain) 5 GHz band: +21 dBm (18 dBm per chain)

**Notes:** Conducted transmit power levels exclude antenna gain. For total (EIRP) transmit power, add antenna gain.
- Advanced Cellular Coexistence (ACC) minimizes the impact of interference from cellular networks
- Transmit beamforming (TxBF) increases signal reliability and range
- Passpoint Wi-Fi (Release 2) (Hotspot 2.0) offers seamless cellular-to-Wi-Fi carryover for guests
- Dynamic Frequency Selection (DFS) optimizes use of available RF spectrum
- Maximum Ratio Combining (MRC) improves receiver performance
- Cyclic Delay/Shift Diversity (CDD/CSD) provides greater downlink RF performance
- Space-Time Block Coding increases range and improved reception
- Low-Density Parity Check (LDPC) provides a high-efficiency error correction for increased throughput

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## Technical Specifications

### Other Interfaces

- E0: Ethernet wired network port (RJ-45)
    - Auto-sensing link speed (10/100/1000BASE-T) and MDI/MDX
    - POE-PD: 48Vdc (nominal) 802.3af/at POE (class 3 or 4)
    - 802.3az Energy Efficient Ethernet (EEE)
  - DC power interface: 12Vdc (nominal, +/- 5%), accepts 2.1mm/5.5mm center-positive circular plug with 9.5mm length
  - USB 2.0 host interface (Type A connector)
    - Capable of sourcing up to 1A / 5W to an attached device
  - Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio
    - BLE: up to 7dBm transmit power (class 1) and -93dBm receive sensitivity (1Mbps)
    - Zigbee: up to 6dBm transmit power and -96dBm receive sensitivity
    - Integrated vertically polarized omnidirectional antenna with roughly 30 degrees downtilt and peak gain of 3.3dBi
  - Visual indicators (two multi-color LEDs): for System and Radio status
  - Reset button: factory reset, LED mode control (normal/off)
  - Serial console interface (proprietary, micro-B USB physical jack)
  - Kensington security slot
- 

### Wi-Fi Antennas

- AP-504: Two (female) RP-SMA connectors for external dual band antennas (A0 and A1, corresponding with radio chains 0 and 1). Worst-case internal loss between radio interface and external antenna connectors (due to diplexing circuitry): 0.7dB in 2.4GHz and 1.3dB in 5GHz.
  - AP-505: Two integrated dual-band downtilt omni-directional antennas for 2x2 MIMO with peak antenna gain of 4.9dBi in 2.4GHz and 5.7dBi in 5GHz. Built-in antennas are optimized for horizontal ceiling mounted orientation of the AP. The downtilt angle for maximum gain is roughly 30 degrees.
    - Combining the patterns of each of the antennas of the MIMO radios, the peak gain of the combined, average pattern is 4.3dBi in 2.4GHz and 5.6dBi in 5GHz..
- 

### Environmental Specifications

- Operating conditions
    - Temperature: 0C to +50C / +32F to +122F
    - Humidity: 5% to 93% non-condensing
    - AP is plenum rated for use in air-handling spaces
    - ETS 300 019 class 3.2 environments
  - Storage and transportation conditions
    - Temperature: -40C to +70C / -40F to +158F
    - Humidity: 5% to 93% non-condensing
    - ETS 300 019 classes 1.2 and 2.3 environments
- 

### Reliability

Mean Time Between Failure (MTBF): 1.3Mhrs (14.8yrs) at +25C operating temperature.

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## Technical Specifications

### Power Sources And Power Consumption

- The AP supports direct DC power and Power over Ethernet (POE)
  - When both DC and POE power sources are available, DC power takes priority over POE
  - Power sources are sold separately; see the 500 Series Ordering Guide for details
  - When powered by DC or 802.3at (class 4) POE, the AP will operate without restrictions.
  - When powered by 802.3af (class 3) POE and with the IPM feature disabled, the AP will disable the USB port. In the same configuration but with IPM enabled, the AP will start up in unrestricted mode, but may dynamically apply restrictions depending on the POE budget and actual power. The feature restrictions and order can be programmed.
  - Maximum (worst-case) power consumption (without / with a USB device attached)::
    - DC powered: 8.9W / 14.2W.
    - POE powered (802.3at): 11.0W / 16.5W.
    - POE powered (802.3af): 11.0W / 13.5W.
    - This assumes that up to 5W is supplied to the attached USB device.
  - Maximum (worst-case) power consumption in idle mode: 4.3W (DC) or 6.1W (POE).
  - Maximum (worst-case) power consumption in deep-sleep mode: 1.7W (DC) or 3.3W (POE).
- 

### Regulatory Compliance

- FCC/ISED
- CE Marked
- RED Directive 2014/53/EU
- EMC Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- UL/IEC/EN 60950
- EN 60601-1-1, EN60601-1-2

For more country-specific regulatory information and approvals, please see your Aruba representative.

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### Regulatory Model Numbers

- AP-504: APIN0504
  - AP-505: APIN0505
- 

### Certifications

- UL2043 plenum rating
  - Wi-Fi Alliance:
    - Wi-Fi CERTIFIED a, b, g, n, ac
    - Wi-Fi CERTIFIED 6 (ax)
    - WPA, WPA2 and WPA3 – Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)
    - WMM, WMM-PS, Wi-Fi Vantage, W-Fi Agile Multiband
    - Wi-Fi Location
    - Passpoint (release 2)
  - Bluetooth SIG
  - Ethernet Alliance (POE, PD device, class 4)
- 

### Minimum ArubaOS Release

- ArubaOS
  - Aruba InstantOS 8.6.0.0
- 



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## Summary of Changes

<b>Date</b>	<b>Version History</b>	<b>Action</b>	<b>Description of Change</b>
15-Mar-2021	Version 5	Changed	SKUs were added in Configuration Information section.
08-Sep-2020	Version 4	Changed	Configuration Information was updated. SKU description were updated New SKU was added.
01-Jun-2020	Version 3	Changed	Configuration Information was updated. SKU description were updated New SKU was added.
04-Nov-2019	Version 2	Changed	Configuration Information section was updated. New SKUs were added.
14-Oct-2019	Version 1	New	New QuickSpecs



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a00067744enw - 16430 - Worldwide - V5 - 15-March-2021

# Aruba Instant On AP17 야외 액세스 포인트



## 새로운 내용

- 소규모의 성장하는 비즈니스를 위한 비용경제적인 가격대의 엔트리 레벨 무선 액세스 포인트.
- 여러 액세스 포인트를 간단하게 배포할 수 있는 통합 가상 컨트롤러가 제공됩니다.
- 사용자 게스트 액세스당 Enhanced Open을 사용하여 WPA2/WPA3 직원 및 게스트 로그인을 지원합니다.

## 개요

Aruba Instant On AP17 야외 액세스 포인트는 밀도가 중간 정도이며 고성능 및 대역폭이 필요한 소기업 환경에 경제적인 비즈니스급 Wave 2 802.11ac Wi-Fi를 제공합니다. 방수 기능이 있는 Aruba Instant On AP17 야외 액세스 포인트는 소규모 제조 부서와 야외 레스토랑 등 야외 및 환경적으로 까다로운 위치에 고성능 네트워크 커버리지를 제공하도록 설계되었습니다. 수영장이나 테라스에서도 더 강력한 Wi-Fi를 즐길 수 있습니다. Aruba Instant On AP17 야외 액세스 포인트의 소형 폼 팩터는 신뢰할 수 있고 경제적인 다중 사용자 기능과 집계 최대 데이터 속도 2Gbps를 제공하여 고화질 비디오 스트리밍과 클라우드 애플리케이션 요구사항을 지원합니다. 또한 이러한 액세스 포인트(AP)에는 컨트롤러가 내장되어 있어 배포가 간단하고, 광범위한 IT 경험, 추가 하드웨어 또



는 소프트웨어 애플리케이션 없이도 여러 액세스 포인트를 쉽게 설치하고 관리할 수 있습니다.

## 특징

### 배포하기 쉬운 802.11ac Wave 2 액세스 포인트를 통한 빠른 연결

Aruba Instant On AP17 야외 액세스 포인트에는 사용하기 쉬운 웹 GUI 및 템플릿이 포함되어 있어 액세스 포인트가 몇 분 이내에 작동합니다.

802.11ac Wave 2 기능에는 4x4:4SS 및 최대 160MHz 채널 대역폭이 포함됩니다.

최대 2Gbps의 결합 속도를 제공하는 듀얼 밴드 무선(2.4GHz 및 5GHz)은 비디오, 음성, 회의 솔루션 등 고대역폭 활동을 지원합니다.

Aruba Instant On AP17 야외 액세스 포인트는 기본 AP 구성에 대한 변경 사항이 동일한 클러스터의 모든 AP에 자동으로 푸시되도록 합니다.

기본 AP에서 항상 접속되는 Wi-Fi에 대한 중단이 발생하면 보조 AP가 자동으로 대체합니다.

### 플 스케일 무선 메시 커버리지로 비용이 많이 드는 케이블 제거

Aruba Instant On AP17 야외 액세스 포인트에는 내장된 무선 메시 기능이 있어 케이블을 추가하지 않고도 Wi-Fi 연결을 비용 효율적으로 확장할 수 있습니다.

네트워크를 연결하기 어려운 영역으로 편리하게 확장하고, 불규칙한 연결과 사각지대를 거의 없애 Wi-Fi를 필요한 곳에 제공하십시오.

### WPA2/WPA3 및 Enhanced Open으로 민감한 데이터 보호

Aruba Instant On AP17 야외 액세스 포인트에는 통합된 Wi-Fi Alliance 보안 표준 WPA2/WPA3 그리고 보호된 무선 액세스를 위한 Enhanced Open 지원 기능이 함께 제공됩니다.

하나의 네트워크 이름 아래 최대 8가지의 SSID를 만들어, 웹 서핑이나 HR 데이터 확인 등의 작업을 할 때 데이터를 안전하게 유지할 수 있습니다.

### 단순성은 훌륭한 Wi-Fi 경험의 비결입니다.

Aruba Instant On AP17 야외 액세스 포인트는 신뢰할 수 있는 공급업체가 제작한 것만큼 믿을 수 있는 고급 하드웨어 및 소프트웨어 품질로 제작되었습니다.

구입 즉시 사용자가 직접 손쉽게 설치할 수 있습니다.

Aruba Instant On 포트폴리오는 다음과 같은 유연한 관리 옵션을 제공합니다. Aruba Instant On 모바일 앱은 초기 설정에서 지속적인 관리 과정까지의 단계별 가이드입니다.

Aruba Instant On AP17 야외 액세스 포인트는 기술 스타트업, 그래픽 디자인 회사, 카페, 레스토랑, 기타 Wi-Fi 핫스팟 등의 단일 또는 분산된 소기업 사이트용으로 설계되었습니다.

간단하게 구축되는 방문 페이지를 사용하면 로고, 자체 브랜드, 사용자 적용으로 게스트 액세스 페이지를 사용자 지정할 수 있습니다.

## 기술 사양

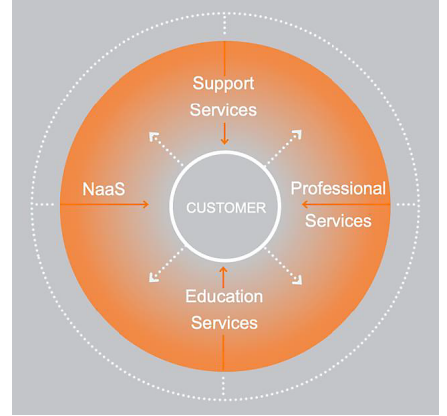
## Aruba Instant On AP17 야외 액세스 포인트

인증 및 준수	WPA2 ,WPA3 ,Enhanced Open(OWE) Wi-Fi Alliance certified(WFA) 802.11ac Wave 2(Wi-Fi5)
입력 전압	Power over Ethernet(PoE): 802.3af 전력 소비 최대 13.5W
데이터 통신	공기 조절 공간에 대한 IEC 60950/62368 CB UL2043(플리넘 등급)
Wi-Fi 안테나	2개의 듀얼 밴드 전지향성 안테나(2.4GHz에서 4.7dBi 게인, 5GHz에서 4.2dBi 게인)
연결, 기본 제공	IEEE 802.11ac, 802.11n
포트	(1) 업링크 기가비트 이더넷 포트, POE-입력 지원(802.3af) 포함
장착	액세스 포인트에는 장착 브래킷이 함께 제공되며 이를 사용하여 벽 또는 기둥에 장착할 수 있습니다.
무선 범위	최대 867Mbps 무선 데이터 속도의 동시 듀얼 밴드 작동 5GHz 802.11ac 2x2 MIMO에 대한 듀얼 라디오, 최대 300Mbps 무선 데이터 속도(Wi-Fi 4)의 다중 사용자 MIMO 지원(Wi-Fi 5) 2.4GHz 802.11n 2x2 MIMO 포함
제품 보증	Aruba Instant On 2년 보증, 최초 90일 동안 24x7 전화 지원 및 전체 보증 기간 동안 채팅 지원 포함, 제품을 소유하고 있는 경우 커뮤니티 지원.
제품 크기(미터법)	187 x 156 x 67mm
무게	650g

추가 기술 정보, 사용 가능한  
모델 및 옵션에 대해서는  
QuickSpecs를 참조하십시오.

## Aruba 글로벌 서비스

Aruba 글로벌 서비스는 네트워크 기술의 수명 주기를 단순화하고 가속화하므로 더 나은 예측력과 경제성으로 네트워크를 확장할 수 있습니다. 자체 네트워크를 운영하며 IT 효율 개선을 꾀하거나 일부 부담을 덜어내려는 모든 경우에 고객의 목표 달성에 적합한 HPE 서비스가 있습니다. Aruba 글로벌 서비스에 대한 자세한 내용을 다음 웹사이트에서 알아보십시오.  
[arubanetworks.com/services/](http://arubanetworks.com/services/)



## Aruba 지원 서비스

지원 서비스를 이용하면 복잡한 업무가 줄어들고 팀 생산성이 향상되므로 기술발전과 소프트웨어 릴리스에 보조를 맞출 수 있을 뿐만 아니라 지속적인 네트워크 운영에 필요한 고장 수리 지원도 받을 수 있습니다. 프리미엄 서비스 이용 시점에 정확한 도움을 받을 수 있습니다.

## Aruba 전문 서비스

매우 지능적인 자본 및 특수 목적성 도구를 통해 고객이 Aruba 기술로부터 얻는 가치를 가속화하도록 설계된 다양한 표준 및 맞춤형 전문 서비스를 제공합니다.

### 빠른 시작 서비스:

- 계획, 감사, 평가
- 지능적 운영
- 아키텍처 검토 및 설계

### 선제적 엔지니어링 서비스:

- 고객 경험 관리
- 배포, 이전, 지식 전달
- 네트워크 최적화

교육 서비스는 고객 팀이 빠르게 최신 지식을 함양하도록 지원합니다.

## Aruba Network as-a-Service (NaaS)

NaaS 솔루션인 Aruba Managed Connectivity Services는 HPE GreenLake 서비스 제품군의 일부로서 네트워크 운영을 단순화하고 장비 처리를 가속화하며 Aruba 네트워크의 가치를 높여줍니다. 전문가 가이드와 자동화 기반 운영이 필요한 경우 [여기](#)에서 Aruba의 NaaS 접근방법에 대해 알아보시기 바랍니다.

올바른 구매 결정을 내리십시오.  
HPE 프리세일즈 담당자와 상의하십시오.

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채팅상담



전화상담



구매하기



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업데이트하기

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부품 및 자재: HPE에서 대량 하드웨어를 유지 관리하는 데 필요한 HPE 지원 교체 부품과 자재를 제공할 예정입니다.

제조업체의 작동 설명서, 제품 QuickSpecs 또는 기술 제품 데이터 시트에 명시된 최대 지원 수명 및/또는 최대 사용 제한에 도달한 부품 및 구성요소는 본 서비스의 일환으로 제공, 수리 또는 교체되지 않습니다.

이미지는 실제 제품과 다를 수 있습니다  
PSN1011575967KRKO, 11월, 2023.