

DATA SHEET

ARUBA 530 SERIES WIRELESS ACCESS POINTS

Very high Wi-Fi 6 (802.11ax) performance with dual radios

Aruba Wi-Fi 6 access points provide high-performance connectivity for any organization experiencing growing numbers of IoT and mobility requirements. With a maximum real-world aggregate data rate of 2.97 Gbps (HE80/HE20), the 530 Series deliver the speed and reliability needed for any enterprise.



The 530 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 4 spatial streams (4SS) and 160MHz channel bandwidth (VHT160), the 530 Series provides groundbreaking wireless capabilities for any enterprise.

Read the Multi-User **802.11ax white paper** for further information.

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.

The following table highlights the number of available resources units per Wi-Fi Channel used:

NUMBER OF CONCURRENT CLIENTS PER

CHANNEL PER RADIO*		
Prior Wi-Fi generations	1 at a time	
Wi-Fi 6 in 20 MHz	Up to 9 at a time	
Wi-Fi 6 in 40 MHz	Up to 18 at a time	
Wi-Fi 6 in 80 MHz	Up to 37 at a time	
Wi-Fi 6 in 160 MHz	Up to 74 at a time	

^{*} Client density varies based on configured network settings



KEY FEATURES

- 2.97 Gbps maximum real-world speed (HE80/HE20)
- 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

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.

Bi-directional Multi-user MIMO (MU-MIMO)

Similar to downlink MU-MIMO in Wi-Fi 5 (802.11ac Wave 2), the 530 Series can simultaneously connect clients use downlink – and now – uplink spatial streams. 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.

Wi-Fi 6 and MU-MIMO aware client optimization

Aruba's patented Al-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.

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.

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.

IOT PLATFORM CAPABILITIES

Like all Aruba Wi-Fi 6 APs, the 530 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 530 Series as an IoT platform, which eliminates the need for an overlay infrastructure and additional IT resources.

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.

ARUBA SECURE INFRASTRUCTURE

The Aruba 530 Series includes components of Aruba's 360 Secure Fabric to help protect user authentication and wireless traffic. Select capabilities include:

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.

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.

VPN Tunnels

In Remote AP (RAP) and IAP-VPN deployments, the Aruba 530 Series can be used to establish a secure SSL/IPSec VPN tunnel to a Mobility Controller that is acting as a VPN concentrator.

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.

SIMPLE AND SECURE ACCESS

To simplify policy enforcement, the Aruba 530 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.

HIGH-DENSITY CONNECTIVITY

Like the higher-end 550 Series AP, each 530 Series AP provides connectivity for a maximum of 1024 associated clients per radio (2048 in total). In real-world scenarios, the maximum recommended client density is dependent on environmental conditions.

Flexible operation and management

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

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.

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.

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.

ADDITIONAL WI-FI FEATURES

Each AP also includes the following standards-based technologies:

Transmit beamforming (TxBF)

Increased signal reliability and range

Passpoint Wi-Fi (Release 2) (Hotspot 2.0)

Seamless cellular-to-Wi-Fi carryover for guests

Dynamic Frequency Selection (DFS)

Optimized use of available RF spectrum

Maximum Ratio Combining (MRC)

Improved receiver performance

Cyclic Delay/Shift Diversity (CDD/CSD)

Greater downlink RF performance

Space-Time Block Coding

Increased range and improved reception

Low-Density Parity Check (LDPC)

High-efficiency error correction for increased throughput

SPECIFICATIONS

Hardware variants

- · AP-534: External antenna models
- · AP-535: Internal antenna models

Wi-Fi radio specifications

- AP type: Indoor, dual radio, 5GHz and 2.4GHz 802.11ax 4x4 MIMO
- 5GHz radio: Four spatial stream Single User (SU) MIMO for up to 2.4Gbps wireless data rate with individual 4SS HE80 (or 2SS HE160) 802.11ax client devices, or with four 1SS or two 2SS HE80 802.11ax MU-MIMO capable client devices simultaneously

- 2.4GHz radio: Four spatial stream Single User (SU) MIMO for up to 1,147Mbps (574Mbps) wireless data rate with individual 4SS HE40 (HE20) 802.11ax client devices or with two 2SS HE40 (HE20) 802.11ax MU-MIMO capable client devices simultaneously
- Both downlink and uplink MU-MIMO in 5GHz, downlink only in 2.4GHz
- Support for up to 1,024 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 37 resource units (for an 80MHz channel)
- · 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: VHT20/40/80/160
- 802.11ax high efficiency (HE) support: HE20/40/80/160
- · 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 600 (MCS0 to MCS31, HT20 to HT40),
 800 with 256-QAM
- 802.11ac: 6.5 to 1,733 (MCS0 to MCS9, NSS = 1 to 4, VHT20 to VHT160), 2,166 with 1024-QAM
- 802.11ax (2.4GHz): 3.6 to 1,147 (MCS0 to MCS11, NSS = 1 to 4, HE20 to HE40)
- 802.11ax (5GHz): 3.6 to 2,402 (MCS0 to MCS11, NSS = 1 to 4, HE20 to HE160)
- 802.11n/ac/ax 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: +24 dBm (18dBm per chain)
 - 5 GHz band: +24 dBm (18 dBm per chain)
 - Note: 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
- Maximum ratio combining (MRC) for improved receiver performance
- Cyclic delay/shift diversity (CDD/CSD) for improved downlink RF performance
- Space-time block coding (STBC) for increased range and improved reception
- Low-density parity check (LDPC) for high-efficiency error correction and increased throughput
- Transmit beam-forming (TxBF) for increased signal reliability and range
- 802.11ax Target Wait Time (TWT) to support low-power client devices

Wi-Fi antennas

- AP-534: Four (female) RP-SMA connectors for external dual band antennas (A0 through A3, corresponding with radio chains 0 through 3). Worst-case internal loss between radio interface and external antenna connectors (due to diplexing circuitry): 0.8dB in 2.4GHz and 1.3dB in 5GHz.
- AP-535: Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 3.5dBi in 2.4GHz and 5.4dBi 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.
 - A mix of horizontally and vertically polarized antenna elements is used
 - Combining the patterns of each of the antennas of the MIMO radios, the peak gain of the combined, average pattern is 1.9dBi in 2.4GHz and 3.5dBi in 5GHz.

Other interfaces

- E0, E1: HPE SmartRate port (RJ-45, maximum negotiated speed 5Gbps)
 - Auto-sensing link speed (100/1000/2500/5000BASE-T) and MDI/MDX
 - 2.5Gbps and 5Gbps speeds comply with NBase-T and 802.3bz specifications
 - POE-PD: 48Vdc (nominal) 802.3at/bt POE (class 4 or higher)
 - 802.3az Energy Efficient Ethernet (EEE)
- Link aggregation (LACP) support between both network ports for redundancy and increased capacity
- POE power can be drawn from either port (single source, or set to prioritize) or both ports simultaneously (set to combine) When set to prioritize, the AP draws power from E0 and may failover to E1.
- DC power interface: 48Vdc (nominal, +/- 5%), accepts
 1.35mm/3.5mm 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 5.0 Low Energy (BLE5.0) and Zigbee (802.15.4) radio (2.4GHz)
 - BLE: up to 8dBm transmit power (class 1) and -95dBm receive sensitivity
 - Zigbee: up to 8dBm transmit power and 99dBm receive sensitivity
 - Integrated vertically polarized omnidirectional antenna with roughly 30 degrees downtilt and peak gain of 3.1dBi (AP-535) or 5.0dBi (AP-534)
- Visual indictors (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

Power sources and power consumption

- The AP supports direct DC power and Power over Ethernet (POE; on port E0 and/or E1)
- When POE power is supplied to both Ethernet ports, the AP can be configured to combine or prioritize power sources
- When both DC and POE power sources are available, DC power takes priority over POE
- Power sources are sold separately; see the ordering Information section below for details

- When powered by DC, 802.3bt (class 5) POE or 2x 802.3at (class 4) POE, the AP will operate without restrictions.
- When powered by 1x 802.3at (class 4) POE and with the IPM feature disabled, the AP will disable the USB port and disable the other Ethernet 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.
- Operating the AP with an 802.3af (class 3 or lower) POE source is not supported.
- Maximum (worst-case) power consumption:
 - DC powered: 23.3W
 - POE powered (802.3bt or dual 802.3at): 26.4W
 - POE powered (802.3at, IPM disabled): 23.3W
 - All numbers above are without an external USB device connected. When sourcing the full 5W power budget to such a device, the incremental (worst-case) power consumption for the AP is up to 5.7W (POE powered) or 5.5W (DC powered).
- Maximum (worst-case) power consumption in idle mode: 13.3W (POE) or 14.3W (DC)
- Maximum (worst-case) power consumption in deep-sleep mode: 3.8W (POE) or 3.6W (DC)

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 ordering Information section below for details.

Mechanical specifications

- Dimensions/weight (AP-535; unit, excluding mount bracket):
 - 240mm (W) x 240mm (D) x 57mm (H) / 9.4" (W) x 9.4" (D) x 2.2" (H)
 - 1,270g / 44.8oz
- Dimensions/weight (AP-535; shipping):
 - 285mm (W) x 300mm (D) x 105mm (H) / 11.2" (W) x 11.9" (D) x 4.1" (H)
 - 1,930g / 68.1oz

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): 995,000hrs (114yrs) at +25C operating temperature.

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
- · Railway Certs (AP-535 Only):
 - EN 50155:2017 Railway Applications
 - EN 50121-1:2017 Railway EMC
 - EN 50121-3-2 Railway EMC
 - EN 50121-4:2016 Railway Immunity
 - IEC 61373 ed2:2008 Railway Shock and Vibration

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

Regulatory model numbers

- AP-534: APIN0534
- · AP-535: APIN0535

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
 - Passpoint (release 2)
- · Bluetooth SIG

WARRANTY

Aruba's hardware limited lifetime warranty.

MINIMUM OPERATING SYSTEM SOFTWARE VERSIONS

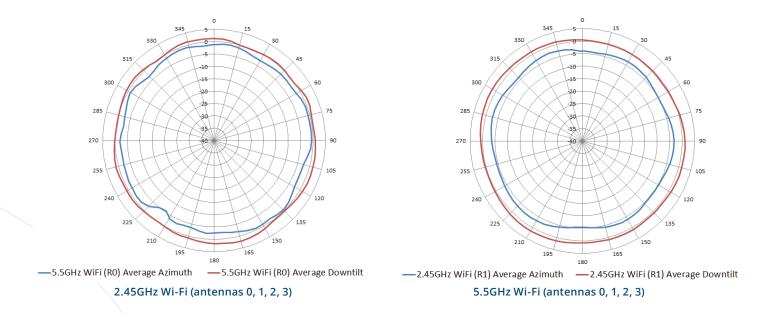
ArubaOS and Aruba InstantOS 8.5.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.

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Mbps 18	2.4GHz. 802.11b	per transmit enam	per receive chain
11Mbps 18		18	-96
MMLps			-88
SMbps 18			
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### SGHz, 802.11n HT40 ### MCS0 ### MCS7 ### 16 ### 70 ##			
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MCS7 16 -70 6GHz, 802.11ac VHT20 MCS9 16 -68 6GHz, 802.11ac VHT40 MCS9 16 -68 6GHz, 802.11ac VHT40 MCS9 16 -65 6GHz, 802.11ac VHT80 MCS9 16 -65 6GHz, 802.11ac VHT80 MCS0 18 -87 MCS9 16 -62 6GHz, 802.11ac VHT160 MCS9 16 -62 6GHz, 802.11ac VHT160 MCS9 16 -69 6GHz, 802.11ac VHT160 MCS9 16 -90 MCS9 16 -59 6GHz, 802.11ax HE20 MCS0 18 -90 MCS11 14 -60 6GHz, 802.11ax HE40 MCS0 18 -87 MCS11 14 -57 6GHz, 802.11ax HE80 MCS0 18 -87 MCS11 14 -57 6GHz, 802.11ax HE80 MCS0 18 -84 MCS11 14 -57 6GHz, 802.11ax HE80 MCS0 18 -84 MCS11 14 -54 6GHz, 802.11ax HE160 MCS0 18 -84 MCS11 14 -54		18	-90
## SGHz, 802.11ac VHT20 ## MCS0			
MCS0 18 -93 MCS9 16 -68 5GHz, 802.11ac VHT40 MCS0 18 -90 MCS9 16 -65 5GHz, 802.11ac VHT80 MCS0 18 -87 MCS9 16 -62 5GHz, 802.11ac VHT160 MCS0 18 -84 MCS9 16 -59 5GHz, 802.11ax HE20 MCS0 18 -90 MCS1 1 -60 5GHz, 802.11ax HE40 MCS0 18 -90 MCS1 1 -60 5GHz, 802.11ax HE40 MCS0 18 -87 MCS0 18 -87 MCS1 1 -60 5GHz, 802.11ax HE40 MCS0 18 -87 MCS1 1 -57 5GHz, 802.11ax HE80 MCS0 18 -87 MCS1 1 -57 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 1 -54 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 1 -54 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 1 -54			
MCS9 16 -68 5GHz, 802.11ac VHT40 MCS0 18 -90 MCS9 16 -65 5GHz, 802.11ac VHT80 MCS0 18 -87 MCS9 16 -62 5GHz, 802.11ac VHT160 MCS0 18 -84 MCS9 16 -59 5GHz, 802.11ac VHT160 MCS0 18 -84 MCS9 16 -59 5GHz, 802.11ax HE20 MCS0 18 -90 MCS11 14 -60 5GHz, 802.11ax HE40 MCS0 18 -87 MCS11 57 5GHz, 802.11ax HE80 MCS0 18 -87 MCS11 14 -57 5GHz, 802.11ax HE80 MCS0 18 -87 MCS11 57 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 1-54 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 1-54		18	-93
56Hz, 802.11ac VHT40 MCS0	MCS9		
MCS0 18 -90 MCS9 16 -65 5GHz, 802.11ac VHT80 MCS0 18 -87 MCS9 16 -62 5GHz, 802.11ac VHT160 MCS0 18 -84 MCS9 16 -59 5GHz, 802.11ax HE20 MCS0 18 -90 MCS11 14 -60 5GHz, 802.11ax HE40 MCS0 18 -87 MCS1 15 -57 5GHz, 802.11ax HE80 MCS0 18 -87 MCS1 1 -57 5GHz, 802.11ax HE80 MCS0 18 -87 MCS1 1 -57 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 1 -57 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 1 -54 5GHz, 802.11ax HE160 MCS0 18 -84 MCS1 1 -54	5GHz. 802.11ac VHT40		
MCS9 16 -65 5GHz, 802.11ac VHT80 MCS9 16 -62 5GHz, 802.11ac VHT160 MCS0 18 -84 MCS9 16 -59 5GHz, 802.11ax HE20 MCS0 18 -90 MCS11 14 -60 5GHz, 802.11ax HE40 MCS0 18 -87 MCS11 14 -57 5GHz, 802.11ax HE80 MCS0 18 -87 MCS1 1 -57 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 1 -57 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 1 -54 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 1 -54 5GHz, 802.11ax HE160 MCS0 18 -84 MCS1 1 -54		18	-90
56Hz, 802.11ac VHT80 MCS0			
MCS0 18 -62 5GHz, 802.11ac VHT160 MCS0 18 -84 MCS9 16 -59 5GHz, 802.11ax HE20 MCS0 18 -90 MCS11 14 -60 5GHz, 802.11ax HE40 MCS0 18 -87 5GHz, 802.11ax HE40 MCS0 18 -87 MCS1 1 14 -57 5GHz, 802.11ax HE80 MCS0 18 -87 MCS1 1 -57 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 1 -54 5GHz, 802.11ax HE160 MCS0 18 -84 MCS1 1 -54			
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5GHz, 802.11ac VHT160 MCS0 18 -84 MCS9 16 -59 5GHz, 802.11ax HE20 MCS0 18 -90 MCS11 14 -60 5GHz, 802.11ax HE40 MCS0 18 -87 MCS11 14 -57 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 14 -54 5GHz, 802.11ax HE160 MCS0 18 -84 MCS1 18 -84 MCS1 18 -84 MCS1 18 -84	MCS9		
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MCS9 16 -59 5GHz, 802.11ax HE20 MCS0 18 -90 MCS11 14 -60 5GHz, 802.11ax HE40 MCS0 18 -87 MCS1 14 -57 5GHz, 802.11ax HE80 MCS0 18 -87 5GHz, 802.11ax HE80 MCS0 18 -84 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 18 -84	MCS0	18	-84
5GHz, 802.11ax HE20 MCS0	MCS9		
MCS0 18 -90 MCS11 14 -60 5GHz, 802.11ax HE40 MCS0 18 -87 MCS11 14 -57 5GHz, 802.11ax HE80 MCS0 18 -84 5GHz, 802.11ax HE80 MCS0 18 -84 MCS1 14 -54 5GHz, 802.11ax HE160 MCS0 18 -84			
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5GHz, 802.11ax HE40 MCS0	MCS11		
MCS0 18 -87 MCS11 14 -57 5GHz, 802.11ax HE80 MCS0 18 -84 MCS11 14 -54 5GHz, 802.11ax HE160 MCS0 18 -81			
MCS11 14 -57 5GHz, 802.11ax HE80 MCS0 18 -84 MCS11 14 -54 5GHz, 802.11ax HE160 MCS0 18 -81		18	-87
5GHz, 802.11ax HE80 MCS0	MCS11		
MCS0 18 -84 MCS1 14 -54 5GHz, 802.11ax HE160 MCS0 18 -81			
MCS1 14 -54 5GHz, 802.11ax HE160 MCS0 18 -81	MCS0	18	-84
5GHz, 802.11ax HE160 MCS0	MCS11		
MCS0 18 -81			
	MCS0	18	-81
	MCS11	13	-51

ANTENNA PATTERNS

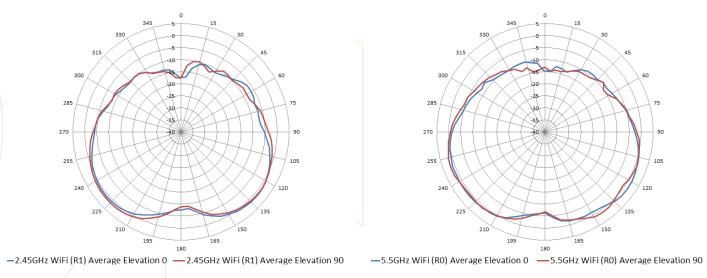
Horizontal planes (top view)

Showing azimuth (0 degrees) and 30 degrees downtilt patterns (averaged patterns for all applicable antennas)



Vertical (elevation) planes (side view, AP facing down)

Showing side view with AP rotated 0 and 90 degrees (averaged patterns for all applicable antennas)



2.45GHz Wi-Fi (antennas 0, 1, 2, 3)

5.5GHz Wi-Fi (antennas 0, 1, 2, 3)

ORDERING INFORMATION		
Part Number	Description	
Aruba 530 Series Campus Access Points		
JZ328A	Aruba AP-534 (EG) Dual Radio 4x4:4 802.11ax External Antennas Unified Campus AP	
JZ329A	Aruba AP-534 (IL) Dual Radio 4x4:4 802.11ax External Antennas Unified Campus AP	
JZ330A	Aruba AP-534 (JP) Dual Radio 4x4:4 802.11ax External Antennas Unified Campus AP	
JZ331A	Aruba AP-534 (RW) Dual Radio 4x4:4 802.11ax External Antennas Unified Campus AP	
JZ332A	Aruba AP-534 (US) Dual Radio 4x4:4 802.11ax External Antennas Unified Campus AP	
JZ333A	Aruba AP-535 (EG) Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	
JZ334A	Aruba AP-535 (IL) Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	
JZ335A	Aruba AP-535 (JP) Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	
JZ336A	Aruba AP-535 (RW) Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	
JZ337A	Aruba AP-535 (US) Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	
JZ338A	Aruba AP-534 (EG) TAA Dual Radio 4x4:4 802.11ax External Antennas Unified Campus AP	
JZ339A	Aruba AP-534 (IL) TAA Dual Radio 4x4:4 802.11ax External Antennas Unified Campus AP	
JZ340A	Aruba AP-534 (JP) TAA Dual Radio 4x4:4 802.11ax External Antennas Unified Campus AP	
JZ341A	Aruba AP-534 (RW) TAA Dual Radio 4x4:4 802.11ax External Antennas Unified Campus AP	
JZ342A	Aruba AP-534 (US) TAA Dual Radio 4x4:4 802.11ax External Antennas Unified Campus AP	
JZ343A	Aruba AP-535 (EG) TAA Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	
JZ344A	Aruba AP-535 (IL) TAA Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	
JZ345A	Aruba AP-535 (JP) TAA Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	
JZ346A	Aruba AP-535 (RW) TAA Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	
JZ347A	Aruba AP-535 (US) TAA Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	
JZ336ACM	Aruba CM AP-535 (RW) Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	
JZ337ACM	Aruba CM AP-535 (US) Dual Radio 4x4:4 802.11ax Internal Antennas Unified Campus AP	

Note: All hardware SKUs can be managed by Aruba Central. Central Managed (CM) SKUs are used for simplified ordering within US and Canada only.

For more ordering information and compatible accessories, please refer to the **ordering guide**.



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