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HPE Aruba Networking 530 Series Campus Access Points QuickSpecs

Very High Wi-Fi 6 (802.11ax) Performance With Dual Radios And Green AP Energy Efficiency

HPE Aruba Networking Wi-Fi 6 access points (APs) provide high performance connectivity for any organization experiencing growing numbers of Internet of Things (IoT) and mobility requirements. With a combined peak data rate of up to 2.97 Gbps, the HPE Aruba Networking 530 Series Campus Access Points deliver the speed and reliability needed for any enterprise.

Overview



HPE Aruba Networking 530 Series Campus Access Points

Key Features

- Up to 2.97 Gbps combined peak data rate
- WPA3 and Enhanced Open security
- Built-in technology that resolves sticky client device issues or Wi-Fi 6 and Wi-Fi 5 devices
- OFDMA and MU-MIMO for enhanced multiuser efficiency
- IoT-ready Bluetooth 5 and Zigbee support
- Embedded ranging technology for accurate indoor location measurements

Standard Features

Incredible efficiency

The HPE Aruba Networking 530 Series Campus Access Points are also designed to optimize user experience by increasing Wi-Fi efficiency and dramatically reducing airtime contention between clients device.

Features include orthogonal frequency-division multiple access (OFDMA), bidirectional multiuser MIMO (MU-MIMO) and cellular optimization. With up to four spatial streams (4SS) and 160 MHz channel bandwidth, the 530 series provides groundbreaking wireless capabilities for any enterprise.

Advantages of OFDMA

This capability allows access points to handle multiple Wi-Fi 6 capable clients device concurrently in a single transmit or receive time slot, regardless of device or traffic type. Timeslot and utilization are optimized by handling each transaction through smaller subcarriers or resource units (RUs), allowing clients device to share a channel rather than compete for airtime and bandwidth.

Bi-directional MU-MIMO

Similar to downlink MU-MIMO in Wi-Fi 5 (802.11ac Wave 2), the 530 series can simultaneously connect clients device using downlink — and now — uplink spatial streams. The added benefit is the ability to multiply the number of clients device that can now send traffic, thus optimizing client-to-access point spatial stream diversity.

Wi-Fi 6 and MU-MIMO aware client optimization

HPE Aruba Networking patented AI-powered ClientMatch technology helps eliminate sticky client device issues by placing Wi-Fi 6 capable devices on the best available access point. Session metrics are used to steer mobile devices to the best access point based on available bandwidth, types of applications being used and traffic type — even as users roam.

HPE Aruba Networking Advanced Cellular Coexistence

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

Intelligent Power Monitoring

HPE Aruba Networking access points continuously monitor and report hardware energy consumption. They can also be configured to enable or disable capabilities based on available Power over Ethernet (PoE) power — ideal when wired switches have exhausted their power budget.

IoT Platform Capabilities

Like all HPE Aruba Networking Wi-Fi 6 access points, 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 helps eliminate the need for an overlay infrastructure and additional IT resources.

Target Wake Time

Ideal for IoTs that communicate infrequently, Target Wake Time (TWT) establishes a schedule when clients device need to communicate with an access point. This helps improve client device power savings and reduces airtime contention with other clients device.

Standard Features

Foundation for Accurate Indoor Location

HPE Aruba Networking access points act as a foundation for accurate indoor location so that location-aware services can be deployed at scale. Using embedded GPS receivers, Wi-Fi 6E access points are able to self-locate and work with Wi-Fi 6 access points to establish reference points that can be used to accurately determine indoor client device location.

Because they use universal latitude and longitude coordinates, there is no need for custom map development or to create separate applications for indoor and outdoor environments.

Secure Infrastructure

The HPE Aruba Networking 530 Series Campus Access Points include security components to help protect user authentication and wireless traffic. Select capabilities include:

WPA3 and Enhanced Open

Support for stronger encryption and authentication is provided through 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. It requires HPE Aruba Networking NAC.

VPN tunnels

In remote access point (RAP) and IAP-VPN deployments, the 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

For enhanced device assurance, all HPE Aruba Networking access points have an installed Trusted Platform Module (TPM) for secure storage of credentials and keys, and boot code.

Simple and Secure Access

To simplify policy enforcement, the HPE Aruba Networking 530 Series Campus Access Points use our Policy Enforcement Firewall (PEF) feature to encapsulate all traffic from the access points 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 service set identifiers (SSIDs), VLANs and access control lists (ACLs). PEF also serves as the underlying technology for HPE Aruba Networking Dynamic Segmentation.

Standard Features

High-density Connectivity

Like the higher-end HPE Aruba Networking 550 Series Campus Access Points,, each 530 series access point provides connectivity for a maximum of 1024 associated clients device per radio (2048 in total). In real-world scenarios, the maximum recommended client device density is dependent on environmental conditions.

Flexible Management and Operations

Our unified access points can operate as stand-alone APs or with a gateway for greater scalability, security, and manageability. Access points can be deployed using Zero Touch Provisioning — without on-site technical expertise — for ease of implementation in branch offices and for remote work.

HPE Aruba Networking access points can be managed using cloud-based or on-premises solutions for campus, branch, or remote work environments.

HPE Aruba Networking Central provides a single pane of glass for overseeing every aspect of wired and wireless LANs, WANs, and VPNs. AI-powered analytics, end-to-end orchestration and automation, and advanced security features are built natively into the solution.

Additional Wi-Fi features

Each access point also includes the following standards-based technologies:

- **Transmit beamforming:** Increased signal reliability and range
- **Dynamic Frequency Selection:** Optimized use of available radio frequency (RF) spectrum
- **Maximum ratio combining:** Improved receiver performance
- **Cyclic delay / shift diversity:** Greater downlink RF performance
- **Space-time block coding:** Increased range and improved reception
- **Low-Density Parity Check:** High-efficiency error correction for increased throughput

Configuration Information

BTO Models

Description	SKU
535 Internal Antenna Access Points	
HPE Aruba Networking AP-535 (EG) Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP	JZ333A
HPE Aruba Networking AP-535 (IL) Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP	JZ334A
HPE Aruba Networking AP-535 (JP) Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP	JZ335A
HPE Aruba Networking AP-535 (RW) Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP	JZ336A
HPE Aruba Networking AP-535 (US) Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP	JZ337A
HPE Aruba Networking AP-535 (ID) Dual Radio 4x4 802.11ax Internal Antennas Campus Access Point	S5D87A
534 External Antenna Access Points	
HPE Aruba Networking AP-534 (EG) Dual Radio 4x4 802.11ax External Antennas Unified Campus AP	JZ328A
HPE Aruba Networking AP-534 (IL) Dual Radio 4x4 802.11ax External Antennas Unified Campus AP	JZ329A
HPE Aruba Networking AP-534 (JP) Dual Radio 4x4 802.11ax External Antennas Unified Campus AP	JZ330A
HPE Aruba Networking AP-534 (RW) Dual Radio 4x4 802.11ax External Antennas Unified Campus AP	JZ331A
HPE Aruba Networking AP-534 (US) Dual Radio 4x4 802.11ax External Antennas Unified Campus AP	JZ332A
535 Internal Antenna Access Points - TAA Models	
HPE Aruba Networking AP-535 (EG) TAA Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP	JZ343A
HPE Aruba Networking AP-535 (IL) TAA Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP	JZ344A
HPE Aruba Networking AP-535 (JP) TAA Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP	JZ345A
HPE Aruba Networking AP-535 (RW) TAA Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP	JZ346A
HPE Aruba Networking AP-535 (US) TAA Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP	JZ347A
534 External Antenna Access Points - TAA Models	
HPE Aruba Networking AP-534 (EG) TAA Dual Radio 4x4 802.11ax External Antennas Unified Campus AP	JZ338A
HPE Aruba Networking AP-534 (IL) TAA Dual Radio 4x4 802.11ax External Antennas Unified Campus AP	JZ339A
HPE Aruba Networking AP-534 (JP) TAA Dual Radio 4x4 802.11ax External Antennas Unified Campus AP	JZ340A
HPE Aruba Networking AP-534 (RW) TAA Dual Radio 4x4 802.11ax External Antennas Unified Campus AP	JZ341A
HPE Aruba Networking AP-534 (US) TAA Dual Radio 4x4 802.11ax External Antennas Unified Campus AP	JZ342A

Configuration Information

Mount Accesories

For 534, 535 Series Std (Min 0 // max 99) User Selection (min 0 // max 99)

Description	SKU
AP Mount Kits	
HPE Aruba Networking AP-MNT-A Campus AP Type A Suspended Ceiling Rail Flat 9/16 Mount Bracket Kit	R3J15A
HPE Aruba Networking AP-MNT-MP10-A Campus AP 10-Pack 9/16 Flat Ceiling Rail Mount Bracket Kit	JZ370A
HPE Aruba Networking AP-MNT-B Campus AP Type B Suspended Ceiling Rail Flat 15/16 Mount Bracket Kit	R3J16A
HPE Aruba Networking AP-MNT-MP10-B Campus AP 10-Pack 15/16 Flat Ceiling Rail Mount Bracket Kit	Q9G69A
HPE Aruba Networking AP-MNT-MP10-B1 Campus AP 10-Pack 15/16 Adj Flat Ceiling Rail Mount Bracket Kit	R6T34A
HPE Aruba Networking AP-MNT-C Campus AP Type C Suspended Ceiling Rail 9/16 Profile Mnt Bracket Kit	R3J17A
HPE Aruba Networking AP-MNT-MP10-C Campus AP 10-Pack Profile 9/16 Ceiling Rail Mount Bracket Kit	Q9G70A
HPE Aruba Networking AP-MNT-D Campus AP Type D Solid Surface Mount Bracket Kit	R3J18A
HPE Aruba Networking AP-MNT-MP10-D Campus AP 10-Pack Solid Surface Mount Bracket Kit	Q9G71A
HPE Aruba Networking AP-MNT-E Campus AP Type E Wall-Box Mount Bracket Kit	R3J19A
HPE Aruba Networking AP-MNT-MP10-E Campus AP 10-Pack Wall-box Mount Bracket Kit	R1C72A
HPE Aruba Networking AP-MNT-U Campus Access Point Type U Universal Mount Bracket Kit	S4K79A
HPE Aruba Networking AP-MNT-MP10-U Campus AP Universal 10-pack Mount Bracket Kit	S0J40A
HPE Aruba Networking AP-MNT-MP10-X Campus AP 10-Pack Mount Adapter Kit	R3T20A

Notes:

- *Kit contains mounts for 10 access points
- Access Points do not include a Mount. Qty 1 Mount kits should be selected

Antennas

For 534 Series Std (Min 0 // max 1) User Selection (min 0 // max 1)

Antennas	
HPE Aruba Networking AP-ANT-311 Direct-Mount RP-SMA Tri-Band 1x1 Omni Dipole Antenna	S1F79A
HPE Aruba Networking AP-ANT-312 Direct-Mount RP-SMA Tri-Band 1x1 Low-Profile Omni Dipole Antenna	S1F80A
HPE Aruba Networking AP-ANT-313 Cabled RP-SMA Tri-Band 1x1 Omni Dipole Antenna	S1F81A
HPE Aruba Networking AP-ANT-340 Cabled RP-SMA Tri-Band 4x4 Downtilt Omni Ceiling Antenna	S1F82A
HPE Aruba Networking AP-ANT-345 Cabled RP-SMA Tri-Band 4x4 Medium Gain Directional Panel Antenna	S1F83A
HPE Aruba Networking AP-ANT-348 Cabled RP-SMA Tri-Band 4x4 High Gain Directional Panel Antenna	S1F84A

Notes:

- *Must select Qty 0 or Qty 4
- AP-ANT-1W, and AP-ANT-20W are usually direct connect to the chassis

Configuration Information

- AP-ANT-45,AP-ANT-48 ship with hardware for flush mount to a flat surface
- AP-534 has 4x RPSMA female, concurrent dual-band connections

Antenna Mount Kits

For 534 Series Std (Min 0 // max 1) User Selection (min 0 // max 1)

HPE Aruba Networking AP-ANT-MNT-4 AZ/EL Adjustable Antennas Pole/Wall Mount Kit	JW021A
HPE Aruba Networking AP-ANT-MNT-U Universal AZ/EL Adjustable Antenna Pole Wall Mount Kit	S1J09A

Power Options

For 534, 535 Series Std (Min 0 // max 1) User Selection (min 0 // max 1)

Notes:

- Most devices are PoE powered from switch so these are optional
- If this Power Supply is selected, bring in (Min 1 // Max 1) Localized power cord based on the HPE Aruba Networking Localization Menu

Compatible with 534 and 535 AP models

HPE Aruba Networking AP-POE-BTSR 1-Port Smart Rate 802.3bt 60W Midspan Injector	R1C73A
HPE Aruba Networking AP-POE-BT10 1-port 10G 60W Midspan 802.3bt PoE Injector	S3J26A
HPE Aruba Networking AP-AC2-48C 48V/50W AC/DC Desktop Style Power Adapter with 1.35/3.5mm Connector	R3K01A

Accessories

For 535 Series Std (Min 0 // max 99) User Selection (min 0 // max 99)

Description	SKU

Snap-on Covers

HPE Aruba Networking AP-535-CVR-20 20pk for AP-535 White Non-glossy Snap-On Covers	JZ368A

Notes:

- Kit contains 20 optional snap-on covers
- Central AP-535-CVR-20 20-pk White Non-glossy Snap-on Covers

Other Accessories

For 535 Series Std (Min 0 // max 99) User Selection (min 0 // max 99)

HPE Aruba Networking AP-MOD-SERU Micro-USB TTL3.3V to RJ45 RS232 AP Console Adapter Module	R6Q99A
HPE Aruba Networking AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable	JY728A
HPE Aruba Networking USB LTE Modem for Access Points and Gateways	R8F34A
HPE Aruba Networking USB Extender Cable Kit	R8G76A

Configuration Information

Software

Central

Cloud Services / Access Point Foundation Subscriptions

HPE Aruba Networking Central AP Foundation 1-year Subscription E-STU	Q9Y58AAE
HPE Aruba Networking Central AP Foundation 3 year Subscription E-STU	Q9Y59AAE
HPE Aruba Networking Central AP Foundation 5 year Subscription E-STU	Q9Y60AAE
HPE Aruba Networking Central AP Foundation 7 year Subscription E-STU	Q9Y61AAE
HPE Aruba Networking Central AP Foundation 10 year Subscription E-STU	Q9Y62AAE

Cloud Services / Access Point Advanced Subscriptions

HPE Aruba Networking Central AP Advanced 1 year Subscription E-STU	Q9Y63AAE
HPE Aruba Networking Central AP Advanced 3 year Subscription E-STU	Q9Y64AAE
HPE Aruba Networking Central AP Advanced 5 year Subscription E-STU	Q9Y65AAE
HPE Aruba Networking Central AP Advanced 7 year Subscription E-STU	Q9Y66AAE
HPE Aruba Networking Central AP Advanced 10 year Subscription E-STU	Q9Y67AAE

On-Prem Services / Access Point Foundation Subscriptions

HPE Aruba Networking Central on Prem AP Foundation 1 year Subscription E-STU	R6U63AAE
HPE Aruba Networking Central on Prem AP Foundation 3 year Subscription E-STU	R6U64AAE
HPE Aruba Networking Central on Prem AP Foundation 5 year Subscription E-STU	R6U65AAE
HPE Aruba Networking Central on Prem AP Foundation 7 year Subscription E-STU	R6U66AAE
HPE Aruba Networking Central on Prem AP Foundation 10 year Subscription E-STU	R6U67AAE

On-Prem Services / Access Point Advanced Subscriptions

HPE Aruba Networking Central On-Premises AP Advanced 1-year Subscription E-STU	R6U68AAE
HPE Aruba Networking Central On-Premises AP Advanced 3-year Subscription E-STU	R6U69AAE
HPE Aruba Networking Central On-Premises AP Advanced 5-year Subscription E-STU	R6U70AAE
HPE Aruba Networking Central On-Premises AP Advanced 7-year Subscription E-STU	R6U71AAE
HPE Aruba Networking Central On-Premises AP Advanced 10 year Subscription E-STU	R6U72AAE

On-Prem Services / Access Point Foundation Government Subscriptions

HPE Aruba Networking COP AP Foundation Government 1-year Subscription E-STU	S1P56AAE
HPE Aruba Networking COP AP Foundation Government 3-year Subscription E-STU	S1P57AAE
HPE Aruba Networking COP AP Foundation Government 5-year Subscription E-STU	S1P58AAE
HPE Aruba Networking COP AP Foundation 7-year Government Subscription E-STU	S1P59AAE
HPE Aruba Networking COP AP Foundation 10-year Government Subscription E-STU	S1P60AAE

On-Prem Services / Access Point Advanced Government Subscriptions

HPE Aruba Networking Central On-Premises Access Point Advanced 3-year Government Subscription E-STU	S1P97AAE
HPE Aruba Networking Central On-Premises Access Point Advanced 5-year Government Subscription E-STU	S1P98AAE

Configuration Information

As-a-Service

Cloud Services / Access Point Foundation Subscriptions

HPE Aruba Networking Central AP Foundation 1 year Subscription SaaS	Q9Y58AAS
HPE Aruba Networking Central AP Foundation 3 year Subscription SaaS	Q9Y59AAS
HPE Aruba Networking Central AP Foundation 5 year Subscription SaaS	Q9Y60AAS
HPE Aruba Networking Central AP Foundation 7 year Subscription SaaS	Q9Y61AAS
HPE Aruba Networking Central AP Foundation 10 year Subscription SaaS	Q9Y62AAS

Cloud Services / Access Point Advanced Subscriptions

HPE Aruba Networking Central AP Advanced 1 year Subscription SaaS	Q9Y63AAS
HPE Aruba Networking Central AP Advanced 3 year Subscription SaaS	Q9Y64AAS
HPE Aruba Networking Central AP Advanced 5 year Subscription SaaS	Q9Y65AAS
HPE Aruba Networking Central AP Advanced 7 year Subscription SaaS	Q9Y66AAS
HPE Aruba Networking Central AP Advanced 10 year Subscription SaaS	Q9Y67AAS

Technical Specifications

RF performance table

Band, rate	Maximum transmit power (dBm) per transmit chain	Receiver sensitivity (dBm) per receive chain
2.4GHz, 802.11b		
1Mbps	18	-96
11Mbps	18	-88
2.4GHz, 802.11g		
6Mbps	18	-93
54Mbps	17	-75
2.4GHz, 802.11n HT20		
MCS0	18	-93
MCS7	16	-75
2.4GHz, 802.11ax HE20		
MCS0	18	-92
MCS11	14	-62
5GHz, 802.11a		
6Mbps	18	-93
54Mbps	17	-75
5GHz, 802.11n HT20		
MCS0	18	-93
MCS7	16	-73
5GHz, 802.11n HT40		
MCS0	18	-90
MCS7	16	-70
5GHz, 802.11ac VHT20		
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
MCS11	14	-60
5GHz, 802.11ax HE40		
MCS0	18	-87
MCS11	14	-57
5GHz, 802.11ax HE80		
MCS0	18	-84
MCS11	14	-54

Technical Specifications

5GHz, 802.11ax HE160		
MCS0	18	-81
MCS11	13	-51

Hardware Variants

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

Wi-Fi Radio Specifications

- Access point type: Indoor, dual radio, 5G Hz and 2.4 GHz 802.11ax 4x4 MIMO
- 5 GHz radio: Four spatial stream HE80 (or 2SS HE160) MIMO for up to 2.4 Gbps wireless data rate
- 2.4 GHz radio: Four spatial stream HE40 (HE20) MIMO for up to 1147 Mbps (574 Mbps) wireless data rate
- Both downlink and uplink MU-MIMO in 5 GHz, downlink only in 2.4 GHz
- Support for up to 1024 associated client devices per radio, and up to 16 BSSIDs per radio
- Supported frequency bands (country-specific restrictions apply): 2.400 to 2.4835 GHz ISM
  - 5.150 to 5.250 GHz U-NII-1
  - 5.250 to 5.350 GHz U-NII-2A
  - 5.470 to 5.725 GHz U-NII-2C
  - 5.725 to 5.850 GHz U-NII-3/ISM
  - 5.850 to 5.895 GHz U-NII-4
- Available channels: Dependent on configured regulatory domain
- Dynamic Frequency Selection (DFS) optimizes the use of available RF spectrum
  - Including Zero-Wait DFS (ZWDFS) to accelerate channel changes
- Supported radio technologies:
  - 802.11b: Direct-sequence spread spectrum (DSSS)
  - 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM)
  - 802.11ax: OFDMA with up to 37 resource units (for an 80 MHz 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 1733 (MCS0 to MCS9, NSS = 1 to 4, VHT20 to VHT160), 2166 with 1024-QAM
  - 802.11ax (2.4 GHz): 3.6 to 1,147 (MCS0 to MCS11, NSS = 1 to 4, HE20 to HE40)
  - 802.11ax (5 GHz): 3.6 to 2402 (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

Technical Specifications

- Maximum (aggregate, conducted total) transmit power (limited by local regulatory requirements) 2.4 GHz band: +24 dBm (18 dBm per chain)
  - 5 GHz band: +24 dBm (18 dBm per chain)
  - Notes: Conducted transmit power levels exclude antenna gain. For total (EIRP) transmit power, add antenna gain.
- HPE Aruba Networking Advanced Cellular Coexistence (ACC) helps minimize 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 beamforming (TxBF) for increased signal reliability and range
- 802.11ax TWT to support low-power client devices
- 802.11mc Fine Timing Measurement (FTM) for precision distance ranging

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): 0.8 dB in 2.4 GHz and 1.3 dB in 5 GHz
- AP-535: Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with a peak antenna gain of 3.5 dBi in 2.4 GHz and 5.4 dBi in 5 GHz. Built-in antennas are optimized for horizontal ceiling mounted orientation of the AP. The downtilt angle for maximum gain is roughly 30°
  - 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 1.9 dBi in 2.4 GHz and 3.5 dBi in 5 GHz.

Other Interfaces

- E0, E1: HPE SmartRate port (RJ-45, maximum negotiated speed 5 Gbps)
  - Auto-sensing link speed (100/1000/2500/5000BASE-T) and MDI / MDIX
  - 2.5 Gbps and 5 Gbps speeds comply with NBase-T and 802.3bz specifications
  - PoE-PD: 48 Vdc (nominal) 802.3at/bt PoE (class 4 or higher)
  - 802.3az Energy Efficient Ethernet (EEE)
- Link Aggregation Control Protocol (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 are simultaneously (set to combine); When set to prioritize, the access point draws power from E0 and may failover to E1.
- DC power interface: 48 Vdc (nominal, +/–5%), accepts 1.35 mm / 3.5 mm center-positive circular plug with 9.5 mm 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 (2.4 GHz)
  - BLE: Up to 8 dBm transmit power (class 1) and –95 dBm receive sensitivity
  - Zigbee: Up to 8 dBm transmit power and –99 dBm receive sensitivity

  - Integrated vertically polarized omnidirectional antenna with roughly 30° downtilt and peak gain of 3.1 dBi (AP-535) or 5.0 dBi (AP-534)
- Visual indicators (two multicolor 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 access point supports direct DC power and PoE; (on port E0 and/or E1)
- When PoE power is supplied to both Ethernet ports, the access point 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 following ordering information section for details
- When powered by DC, 802.3bt (class 5) PoE or 2x 802.3at (class 4) PoE, the access point will operate without restrictions
- When powered by 1x 802.3at (class 4) PoE and with the intelligent power monitoring (IPM) feature disabled, the access point will disable the USB port and disable the other Ethernet port. No other restrictions will be applied in this case (IPM disabled).
- In the same situation but with IPM enabled, the access point will start up in fully unrestricted mode, but may dynamically apply restrictions depending on the PoE budget and actual power.
- When using IPM, the actual restrictions that are applied by the feature and the order in which they're applied are configurable.
- Operating the access point 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 the previous numbers 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 access point 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 preinstalled on the back of the AP. This bracket is used to secure the AP to any of the mount kits (sold separately); see the following ordering information section for details.

Technical Specifications

Mechanical Specifications

- Dimensions/weight (AP-535; unit, excluding mount bracket):
  - 240 mm (W) x 240 mm (D) x 57 mm (H) / 9.4" (W) x 9.4" (D) x 2.2" (H)
  - 1,270g / 44.8oz

- Dimensions/weight (AP-535; shipping):
  - 285 mm (W) x 300 mm (D) x 105 mm (H) / 11.2" (W) x 11.9" (D) x 4.1" (H)
  - 1,930g / 68.1oz

Environmental Specifications

- Operating conditions
  - Temperature: 0°C to +50°C/+32°F to +122°F
  - Humidity: 5% to 93% noncondensing
  - AP is plenum rated for use in air-handling spaces
  - ETS 300 019 class 3.1 environments

- Storage and transportation conditions
  - Temperature: –40°C to +70°C/ –40°F to +158°F
  - Humidity: 5% to 93% non-condensing
  - ETS 300 019 classes 1.2 and 2.3 environments

Reliability

Mean time between failure (MTBF): 995,000 hours (114 years) at +25°C operating temperature.

Regulatory Compliance

- FCC/ISED
- CE Marked
- Radio Equipment Directive (RED) Directive 2014/53/EU
- Electromagnetic compatibility (EMC) Directive 2014/30/EU
- Low Voltage Directive 2014/35/EU
- UL/IEC/EN 62368-1
- 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, contact your HPE Aruba Networking representative.

Technical Specifications

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, W-Fi Agile Multiband
  - Wi-Fi CERTIFIED Location™
- Bluetooth Special Interest Group (SIG)

Warranty

HPE Aruba Networking hardware limited lifetime warranty.

Minimum Operating System Software Versions

- HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.5.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.
- HPE Aruba Networking Wireless Operating System 10.0.0.0

Specifications - Hardware Variants

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

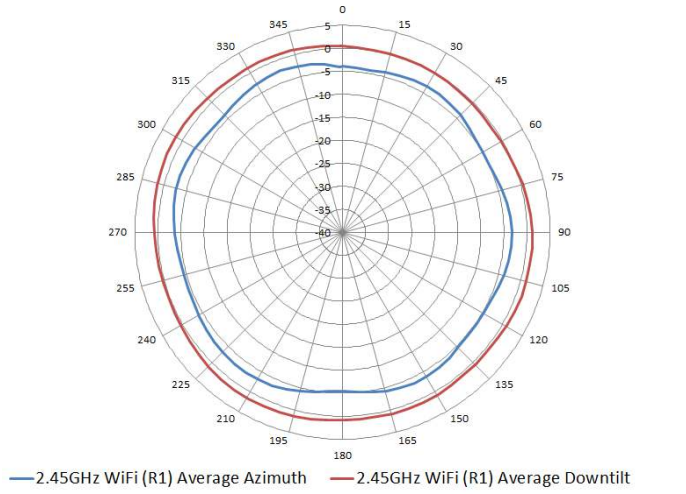
Mounting

- 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.

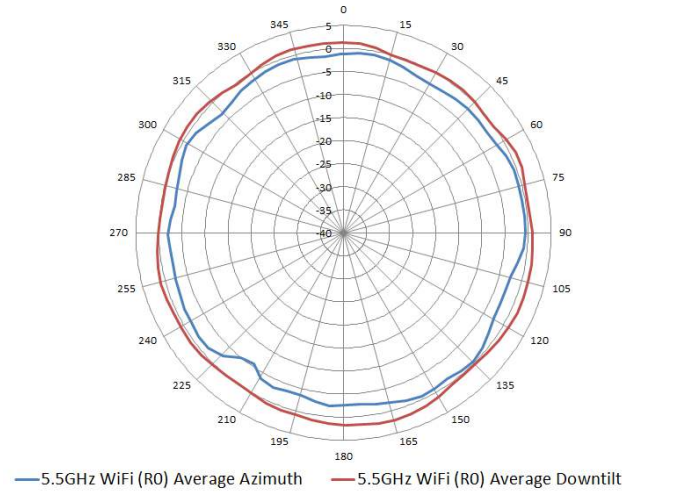
Antenna Patterns

Horizontal Planes (Top View)

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



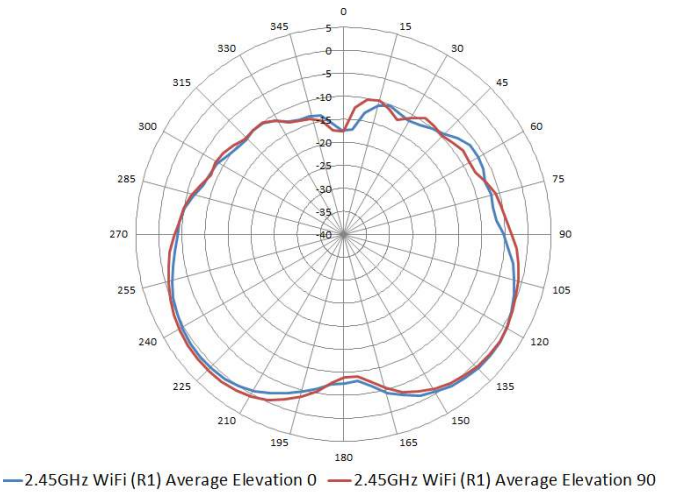
2.45 GHz Wi-Fi (antennas 0, 1, 2, 3)



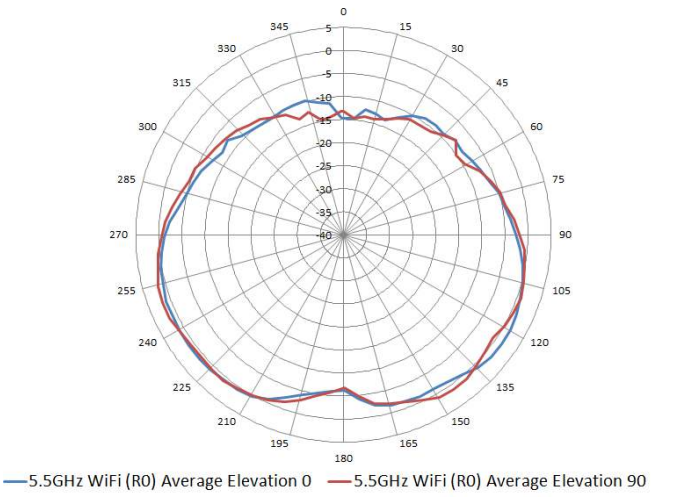
5.5 GHz Wi-Fi (antennas 0, 1, 2, 3)

Vertical (Elevation) Planes (Side View, AP Facing Down)

Showing side view with access point rotated 0° and 90° (averaged patterns for all applicable antennas)



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



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

Summary of Changes

Date	Version History	Action	Description of Change
17-Aug-2026	Version 22	Changed	New Central SKUs were added in Configuration Information section: R6U68AAE, R6U69AAE, R6U70AAE, R6U71AAE, R6U72AAE, S1P56AAE, S1P57AAE, S1P58AAE, S1P59AAE, S1P60AAE, S1P97AAE, S1P98AAE.
1-Jun-2026	Version 21	Changed	Information updated for Environmental Specifications in Technical Specifications section.
27-Feb-2026	Version 20	Changed	Rebranding update applied to QuickSpecs
28-Jul-2025	Version 19	Changed	Update survey link.
07-Apr-2025	Version 18	Changed	Overview, Standard Features, Configuration Information, and Technical Specifications sections were updated.
21-Jan-2025	Version 17	Changed	QuickSpecs was updated.
16-Dec-2024	Version 16	Changed	Overview and Configuration Information sections were updated
19-Aug-2024	Version 15	Changed	Configuration Information section was updated.
01-Jul-2024	Version 14	Changed	Configuration Information section was updated.
04-Dec-2023	Version 13	Changed	Series name was updated.
05-Sep-2023	Version 12	Changed	Configuration Information section was updated.
07-Aug-2023	Version 11	Changed	Configuration Information section was updated.
01-May-2023	Version 10	Changed	Configuration Information section was updated, new SKU was added.
05-Jul-2022	Version 9	Changed	Configuration Information section was updated, new SKUs were added.
06-Dec-2021	Version 8	Changed	SKUs were added in Configuration Information section.
15-Mar-2021	Version 7	Changed	SKUs were added in Configuration Information section.
08-Sep-2020	Version 6	Changed	Configuration Information section was updated. New SKUS were added. Obsolete SKUs were removed.
09-Dec-2019	Version 5	Changed	Standard Features and Configuration Information sections were updated.
04-Nov-2019	Version 4	Changed	Configuration Information section was updated. New SKUS were added
07-Oct-2019	Version 3	Changed	Overview, Standard Features and Configuration Information sections were updated New SKUS were added
03-Jun-2019	Version 2	Changed	Configuration Information section was updated. New SKUs were added.
02-Apr-2019	Version 1	New	New QuickSpecs

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