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HPE Aruba Networking 630 Series Campus Access Points QuickSpecs

Fast, resilient, and secure Wi-Fi 6E connectivity

For enterprises who need more wireless capacity and wider channels, HPE Aruba Networking 630 Series Campus Access Points are designed to take advantage of the 6 GHz band via three dedicated radios. By using the 6 GHz band, capacity is more than doubled — so you can meet growing demand due to bandwidth-hungry video, increasing numbers of client and IoT devices and growth in cloud. The 630 series includes ultra tri-band filtering and dual 2.5 Gbps ethernet ports to eliminate coverage gaps, provide greater resiliency, and deliver fast, secure connectivity.

Overview



HPE Aruba Networking 630 Series Campus Access Points

Key Features

- Unlocks the 6 GHz band to more than double the available capacity.
- Comprehensive tri-band coverage across 2.4 GHz, 5 GHz, and 6 GHz to deliver 3.9 Gbps maximum aggregate data rate.
- Up to seven 160 MHz channels in 6 GHz support low-latency, bandwidth-hungry applications like high-definition video and augmented reality/virtual reality applications.
- Unique ultra-triband filtering enables 5 GHz and 6 GHz to operate without restrictions or interference.
- High availability with 2.5 Gbps dual ethernets port for hitless failover of ethernet and power.
- Built in GPS receivers and intelligent software enable APs to self-locate and act as reference points for accurate indoor location measurements.
- Offered as optional eco-friendly 5-packs

Standard Features

More Capacity and Wider Channels

The HPE Aruba Networking 630 Series Campus Access Points are designed to take advantage of the 6 GHz band, which translates into far greater speeds, wider channels for multi-gigabit traffic, and less interference. It delivers 3.9 Gbps maximum aggregate data rates Tri-radio, 2x2:2 MIMO in all three bands (3.9 Gbps aggregate peak).

Band	Channel Size	Maximum throughput
6GHz	160MHz	2.4Gbps
5GHz	80MHz	1.2Gbps
2.4GHz	20MHz	3.9 Gbps

Advantages of 6GHz

Wi-Fi 6E provides up to 1200 MHz in the 6 GHz band for higher throughput and improved application performance. With up to seven 160 MHz channels, Wi-Fi 6E can better support low-latency, bandwidth hungry applications like high-definition video and artificial reality/virtual reality applications. Only Wi-Fi 6E capable devices can use the 6 GHz band so there is no interference or slowdowns due to legacy devices.

Device class support

The HPE Aruba Networking 630 Series Campus Access Points are part of the low power indoor (LPI) device class. This fixed indoor-only class uses lower power levels and does not require an Automated Frequency Coordination service (AFC) to manage incumbent outdoor services which is required for standard class access points. The connectorized models will typically operate as Standard Power access points, but may also be allowed to operate as Low Power Indoor devices in some countries.

Less Interference

The 630 series include HPE Aruba Networking's ultra tri-band filtering, which enables enterprises to take advantage of the high end of 5 GHz with the lower end of 6 GHz without experiencing interference. Since there is only 50 MHz between 5 GHz and the 6 GHz, without advanced filtering, enterprises would likely experience problems between the bands and would therefore be limited in the number of channels available. By applying advanced filtering capabilities, enterprises can take full use of available spectrum without creating coverage gaps or islands.

Business Continuity

The Series 630 APs provide high availability with two HPE Smart Rate ethernet ports for hitless failover for both data and power. Configurable to 1 or 2.5 Gbps, these dual ports provide business continuity for mission critical applications

Global Readiness

While the need for more Wi-Fi capacity is recognized across the globe, countries are approaching 6 GHz differently. The HPE Aruba Networking 630 Series Campus Access Points are set up to automatically update regulatory rules once 6E regulations have been approved and certified.

Extend the Benefits of Wi-Fi 6

The 630 series access points are based on the 802.11ax standard, which means that all its efficiency and security enhancements are also available on the 6 GHz band. Features include Orthogonal frequency-division multiple access (OFDMA), bi-directional multi-user MIMO as well as other capabilities built into HPE Aruba Networking's Wi-Fi 6 access points.

Standard Features

Advantages of OFDMA

This capability allows HPE Aruba Networking 630 series access points to handle multiple 802.11ax 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.

Wi-Fi Optimization

Client optimization

HPE Aruba Networking's patented AI-powered ClientMatch technology eliminates sticky client issues by steering a client to the AP where it receives the best radio signal. Client Match steers traffic from the noisy 2.4 GHz band to the preferred 5 GHz or 6 GHz band depending on client capabilities. ClientMatch also dynamically steers traffic to load balance APs to improve the user experience.

Automated Wi-Fi radio frequency management

To optimize the user experience and provide greater stability, HPE Aruba Networking AirMatch allows organization to automate network optimization using machine learning. AirMatch provides dynamic bandwidth adjustments to support changing device density, enhanced roaming using an even distribution of Effective Isotropic Radiated Power (EIRP) to radios, and real-time channel assignments to mitigate co-channel interference.

HPE Aruba Networking Advanced Cellular Coexistence (ACC)

Unique to HPE Aruba Networking, Advanced Cellular Coexistence 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)

For better insights into energy consumption, HPE Aruba Networking access points continuously monitor and report hardware energy usage. Unlike other vendor's access points, HPE Aruba Networking access points can also be configured to enable or disable capabilities based on available PoE power – ideal when wired switches have exhausted their power budget. Enterprises can deploy Wi-Fi 6E access points and update switching and power at a later if needed based on their actual usage.

Self-locating Access Points

Indoor location shouldn't require guesswork or costly or complex overlay technologies. HPE Aruba Networking's Wi-Fi 6 and 6E APs help organizations leverage their wireless investment to deliver indoor location — everywhere.

The HPE Aruba Networking 630 Series Campus APs include built-in GPS receivers and intelligent software to allow them to automatically locate themselves accurately within the universal framework of latitude and longitude.

As part of HPE Aruba Networking's indoor location solutions, they serve as reference points for client devices and other technologies using fine time measurement.

Open Locate, an emerging standard that allows APs to share their location over the air and through cloud-based APIs, enables mobile devices to locate themselves and applications to support network analytics.

Standard Features

Access Points as an IoT Platform

The 630 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. There is also a USB-port extension to provide IoT connectivity to a wider range of devices. These IoT capabilities allows organizations to leverage the HPE Aruba Networking access points as an IoT platform, which eliminates the need for an overlay infrastructure and additional IT resources and can accelerate IoT initiatives.

In addition, Target Wake Time (TWT) establishes a schedule for when clients need to communicate with an access point. This helps improve client power savings and reduces airtime contention with other clients, which is ideal for IoT.

HPE Aruba Networking Secure Infrastructure

The HPE Aruba Networking 630 Series Campus Access Points includes build-security capabilities such as:

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. This capability requires ClearPass Policy Manager.

Simple and Secure Access

To improve security and ease of management, IT can centrally configure and automatically enforce role-based policies that define proper access privileges for employees, guests, contractors, and other user groups – no matter where users connect on wired and WLANs. Dynamic Segmentation eliminates the time consuming and error-prone task of managing complex and static VLANs, ACLs, and subnets by dynamically assigning policies and keeping traffic secure and separated.

Seamless Handoffs to Cellular

Built on the technical foundations of Passpoint® and Wi-Fi Calling, Air Pass creates a roaming network across the HPE Aruba Networking enterprise customer footprint, extending cellular coverage and enhancing the visitor and subscriber experience to deliver a great experience for your guests while reducing costs and management overhead for DAS.

Standard Features

Flexible Operation and Management

Our unified access points can operate as standalone access points 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 any campus, branch, or remote work environment. 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.

Summary

HPE Aruba Networking 630 Series Campus Access Points are designed to take advantage of the 6 GHz band using three radios for comprehensive tri-band coverage to meet the growing demands of Wi-Fi due to increased use of video, growth in client and IoT devices, and expanded use of cloud. With a maximum aggregate 3.9 Gbps data rate for higher throughput and faster speeds for indoor use, the 630 series delivers added capacity, wider channels, hitless failover, and less interference between the 5 GHz and 6 GHz bands.

Configuration Information

BTO Models

Description	SKU
OCA Only Model Selection Form HPE Offering > HPE Aruba Networking > Wireless > Access Points > Campus: HPE Aruba Networking 630 Series Campus Access Points	
AP-634 External Antenna Campus Access Points	
HPE Aruba Networking AP-634 (RW) Tri-radio 2x2:2 Wi-Fi 6E External Antennas Campus AP	S1G49A
HPE Aruba Networking AP-634 (US) Tri-radio 2x2:2 Wi-Fi 6E External Antennas Campus AP	S1G50A
AP-634 External Antenna Campus Access Points – TAA Models	
HPE Aruba Networking AP-634 (RWF1) Tri-radio 2x2:2 Wi-Fi 6E External Antennas TAA Campus AP	S1G51A
HPE Aruba Networking AP-634 (USF1) Tri-radio 2x2:2 Wi-Fi 6E External Antennas TAA Campus AP	S1G52A

- Add Mount Kit, Antenna(s)
- Regulatory Considerations for AP-634
  - The AP-634 will only be offered in countries where there's an existing or clear and defined path to allow operation of 6GHz radios with external connectorized antennas, either as a Low-Power Indoor (LPI) or Standard Power (SP) product. Please contact your HPE Aruba Networking representative to confirm (existing or planned) availability for the country where the AP will be deployed.
  - Also, 6GHz support on AP-634 will only be enabled in AOS/Instant 8.12 and AOS 10.7.

635 Internal Antenna Access Points	
HPE Aruba Networking AP-635 (EG) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas Campus AP	R7J24A
HPE Aruba Networking AP-635 (IL) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas Campus AP	R7J25A
HPE Aruba Networking AP-635 (JP) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas Campus AP	R7J26A
HPE Aruba Networking AP-635 (RW) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas Campus AP	R7J27A
HPE Aruba Networking AP-635 (US) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas Campus AP	R7J28A
HPE Aruba Networking AP-635 (ID) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas Campus AP	S5E07A
635 Internal Antenna Access Points - TAA Models	
HPE Aruba Networking AP-635 (EG) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP	R7J29A
HPE Aruba Networking AP-635 (IL) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP	R7J30A
HPE Aruba Networking AP-635 (JP) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP	R7J31A
HPE Aruba Networking AP-635 (RW) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP	R7J32A
HPE Aruba Networking AP-635 (US) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP	R7J33A

Configuration Information

AP-635 Internal Antenna Access Points - 5-Pack Eco-Friendly Bundle

HPE Aruba Networking AP-635 (RW) Tri Radio 2x2 Wi-Fi 6E Internal Antennas 5-pack Campus Access Point	S3J35A
HPE Aruba Networking AP-635 (US) Tri Radio 2x2 Wi-Fi 6E Internal Antennas 5-pack Campus Access Point	S3J36A

Mount Accessories

AP Mount Kits

For 630 Series Std (Min 0 // max 99) User Selection (min 0 // max 99)

Description	SKU
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

Antennas

Antennas

For AP-634 Std (Min 0 // max 1) User Selection (min 0 // max 1)

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
HPE Aruba Networking AP-ANT-320 Cabled RP-SMA Tri-Band 2x2 Downtilt Omni Ceiling Antenna	S1F85A

Configuration Information

HPE Aruba Networking AP-ANT-325 Cabled RP-SMA Tri-Band 2x2 Medium Gain Directional Panel Antenna	S1F86A
HPE Aruba Networking AP-ANT-328 Cabled RP-SMA Tri-Band 2x2 High Gain Directional Panel Antenna	S1F87A

Antenna Mount Kits

For AP-634 Series Std (Min 0 // max 2) User Selection (min 0 // max 2)

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

Power Options

Power Options

For 630 Series Std (Min 0 // max 99) User Selection (min 0 // max 99)

Description	SKU
HPE Aruba Networking AP-AC2-12B 12V/48W AC/DC Desktop Style Power Adapter with 2.1/5.5mm Connector	R3K00A
HPE Aruba Networking AP-POE-ATSR 1-Port Smart Rate 802.3at 30W Midspan Injector	R6P67A
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

Notes: Most devices are PoE powered from switch so these are optional

Accessories

Snap-on Covers

For 630 Series Std (Min 0 // max 99) User Selection (min 0 // max 99)

Description	SKU
HPE Aruba Networking AP-635-CVR-20 20-pack White Non-glossy Snap-on Covers	R7J34A

Notes:

- Kit contains covers for 20 access points
- Kit contains 20 optional snap-on covers

Other Accessories

For 630 Series Std (Min 0 // max 99) User Selection (min 0 // max 99)

Description	SKU
HPE Aruba Networking AP-CBL-EXT10 10-pack CAT6A Ethernet Extension Cables	R8L34A
Notes: 10-pack Extension Cables	
HPE Aruba Networking AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable	JY728A
Notes: Drivers available on the HPE Aruba Networking Support Center	
HPE Aruba Networking AP-MOD-SERU Micro-USB TTL3.3V to RJ45 RS232 AP Console Adapter Module	R6Q99A
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	-92
54Mbps	16	-74
2.4GHz, 802.11n HT20		
MCS0	18	-91
MCS7	16	-73.5
2.4GHz, 802.11ax HE20		
MCS0	18	-91
MCS11	14	-61
5GHz, 802.11a		
6Mbps	18	-88
54Mbps	16	-71.5
5GHz, 802.11n HT20/HT40		
MCS0	18/18	-88/-85
MCS7	15/15	-70/-67
5GHz, 802.11ac VHT20/VHT40/VHT80		
MCS0	18/18/18	-88.5/-85.5/82.5
MCS9	14/14/14	-64.5/-61.5/-58.5
5GHz, 802.11ax HE20/HE40/HE80/HE160		
MCS0	18/18/18	-88.5/-85.5/82.5
MCS11	14/14/14	-59/-56/-53
6 GHz, 802.11ax HE20/HE40/HE80/HE160		
MCS0	18/18/18/18	-90/-87/-84/-81
MCS11	14/14/14/14	-63.5/-60.5/-57.5/-54.5
MCS13	12/12/12/12	-56/-53/-50/-47

Hardware Variants

- HPE Aruba Networking AP-634: External antenna models
- HPE Aruba Networking AP-635: Internal antenna models

Wi-Fi Radio Specifications

- Access Point type: Indoor, tri radio, 2.4GHz, 5GHz and 6GHz (concurrent) 802.11ax 2x2 MIMO
- 2.4 GHz radio: Two spatial stream Single User (SU) MIMO for up to 574 Mbps wireless data rate with 2SS HE40 802.11ax client devices
- 5 GHz radio: Two spatial stream Single User (SU) MIMO for up to 1.2 Gbps wireless data rate with 2SS HE80 802.11ax client devices
- 6 GHz radio: Two spatial stream Single User (SU) MIMO for up to 2.4 Gbps wireless data rate with 2SS HE160 802.11ax client devices

Technical Specifications

- Up to 512 associated client devices per radio, and up to 16 BSSIDs per radio (limited to 4 for the 6GHz 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-2
  - 5.470 to 5.725 GHz U-NII-2E
  - 5.725 to 5.850 GHz U-NII-3/ISM
  - 5.850 to 5.895 GHz U-NII-4
  - 5.925 to 6.425 GHz U-NII-5
  - 6.425 to 6.525 GHz U-NII-6
  - 6.525 to 6.875 GHz U-NII-7
  - 6.875 to 7.125 GHz U-NII-8
- Available bands and channels: Dependent on configured regulatory domain (country)
- Dynamic frequency selection (DFS) optimizes the use of available RF spectrum in the 5 GHz band
- 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 and 256-QAM (proprietary extension)
  - 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM and 1024-QAM (proprietary extension)
  - 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM and 4096-QAM (proprietary extension)
- 802.11n high-throughput (HT) support: HT20/40
- 802.11ac very high throughput (VHT) support: VHT20/40/80
- 802.11ax high efficiency (HE) support: HE20/40/80/160
- 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 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)
  - 802.11ax (6GHz): 3.6 to 2,402 (MCS0 to MCS11, NSS = 1 to 2, HE20 to HE160); 2,882 with 4096-QAM (MCS 12 and MCS13, proprietary extension)
- 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):
  - Per radio/band (2.4 GHz/5 GHz/6 GHz): +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
- Advanced IOT Coexistence (AIC) allows concurrent operation of multiple radios in the 2.4GHz band
- Ultra Tri-Band (UTB) enables ultimate flexibility in 5 GHz and 6 GHz channel selection without performance degradation*
- 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

Notes: *Full support for the UTB feature will be phased into the HPE Aruba Networking 630 Series Campus Access Points hardware; initial support will be limited

Wi-Fi Antennas

- AP-634: Two sets of two (female) RP-SMA connectors for external antennas (A0 & A1 corresponding with radio chains 0 and 1 for the 2.4GHz and 5GHz radios, and B0 & B1 corresponding with radio chains 0 and 1 for the 6GHz radio). Worst-case internal loss between radio interface and external antenna connectors: 1.0dB in 2.4GHz, 1.0dB in 5GHz and 1.0dB in 6GHz.
- AP-635: Integrated downtilt omni-directional antennas for 2x2 MIMO with peak antenna gain of 4.6 dBi in 2.4 GHz, 7.0 dBi in 5 GHz and 6.3 dBi in 6 GHz. Built-in antennas are optimized for horizontal ceiling mounted orientation of the AP. The downtilt angle for maximum gain is roughly 30 to 40 degrees.
  - Combining the patterns of each of the antennas of the MIMO radios, the peak gain of the combined, average pattern is 2.9 dBi in 2.4 GHz, 4.9 dBi in 5 GHz and 4.3 dBi in 6 GHz.

Other interfaces and features

- E0, E1: Two Ethernet wired network ports (RJ-45)
  - Auto-sensing link speed (100/1000/2500BASE-T) and MDI/MDIX
  - 2.5 Gbps speed complies 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
- 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 5 dBm transmit power (class 1) and -100 dBm receive sensitivity (125 kbps)
  - Zigbee: up to 5 dBm transmit power and -97 dBm receive sensitivity (250 kbps)
  - Integrated omnidirectional antenna with roughly 30 to 40 degrees downtilt and peak gain of 3.0 dBi
- Advanced IoT Coexistence (AIC) allows concurrent operation of multiple radios in the 2.4 GHz band
- Built-in Trusted Platform Module (TPM) for enhanced security and anti-counterfeiting
- Visual indicators (four multi-color LEDs): for System (1x) and Radio (3x) status
- Reset button: factory reset, LED mode control (normal/off)
- Serial console interface (proprietary, micro-B USB physical jack)
- Kensington security slot
- Automatic thermal shutdown and recovery function

Technical Specifications

Power sources and power consumption

- The AP supports direct DC power and Power over Ethernet (PoE) on port E0 and/or E1
- When both DC and PoE power sources are available, DC power takes priority over PoE
- When PoE power is supplied to both Ethernet ports, either port can be configured as the active power source
- Inactive/standby PoE power sources can be used to deliver hitless failover
- Power sources are sold separately; see the HPE Aruba Networking 630 Series Campus Access Points Ordering Guide for details
- When powered by DC or 802.3bt (class 5) PoE, the access point will operate without restrictions.
- When powered by 802.3at (class 4) PoE with the IPM feature disabled, the access point will disable the USB port.
- Operating the access points with an 802.3af (class 3 or lower) POE source is not supported (except for access point staging).
- With IPM enabled, the AP will start up in unrestricted mode but may dynamically apply restrictions depending on the available power budget and actual consumption. The feature restrictions and order in which these get applied are configurable.
- Maximum (worst-case) power consumption (without/with a USB device attached):
  - DC powered: 20.7W/26.4W.
  - PoE powered: 23.8W/29.4W.
  - This assumes that up to 5W is supplied to the attached USB device.
- Maximum (worst-case) power consumption in idle mode: 8.7W/14.2W (DC) or 11.7W/17.2W (PoE).
- Maximum (worst-case) power consumption in deep-sleep mode: 1.1W (DC) or 1.9W (PoE).

Mounting details

A mounting bracket has been pre-installed on the back of the access points. This bracket is used to secure the access points to any of the mount kits (sold separately); see the HPE Aruba Networking 630 Series Campus Access Points Ordering Guide for details.

Mechanical specifications

- Dimensions/weight (AP-635; unit without mount bracket):
  - 220mm (W) x 220mm (D) x 51mm (H)
  - 1300g
- Dimensions/weight (AP-635; shipping):
  - 250mm (W) x 240mm (D) x 85mm (H)
  - 1650g

Environmental specifications

- Operating conditions
  - Temperature: 0C to +50C/+32F to +122F
  - Relative humidity: 5% to 95%
  - ETS 300 019 class 3.2 environments
  - AP is plenum rated for use in air-handling spaces

- Storage and transportation conditions
  - Temperature: -40C to +70C/-40F to +158F
  - Relative humidity: 10% to 100%
  - ETS 300 019 classes 1.2 (storage) and 2.3 (transportation) environments

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 • IEC/EN 62368-1
- EN 60601-1-1, EN60601-1-2

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

Reliability

- Mean Time Between Failure (MTBF): 520 khrs (59 yrs) at +25C operating temperature

Regulatory Model Numbers

- AP-634 (all models): APIN0634
- AP-635 (all models): APIN0635

Regulatory Considerations for AP-634

The HPE Aruba Networking AP-634 will be offered in countries where there is an existing or clear and defined path to allow operation of 6 GHz radios with external connectorized antennas, either as a Low-Power Indoor (LPI) or Standard Power (SP) product. Please contact your HPE Aruba Networking representative to confirm (existing or planned) availability for the country where the access point will be deployed.

Standard Power product class operation of the HPE Aruba Networking AP-634 (i.e. most countries where the platform is supported) is only supported on HPE Aruba Wireless Operating System OS 10.7.0.0 and later deployments and HPE Aruba Wireless Operating System OS 8.12.0.0 and later deployments that include a Mobility Conductor. Standard Power operation is not supported on Instant OS deployments or 8.x HPE Aruba Networking Wireless Operating System deployments without a Mobility Conductor.

Technical Specifications

Certifications

- UL2043 plenum rating
- Wi-Fi Alliance:
  - Wi-Fi CERTIFIED a, b, g, n, ac
  - Wi-Fi CERTIFIED 6E (ax, 6GHz)
  - WPA, WPA2 and WPA3: Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)
  - WMM, WMM-PS, Wi-Fi Vantage, W-Fi Agile Multiband
- Bluetooth SIG*
- Ethernet Alliance (PoE, PD device, class 5)**

Notes:

- *Targeting Q3CY21 for this certification
- **Zigbee Alliance

Warranty

HPE Aruba Networking's hardware limited lifetime warranty.

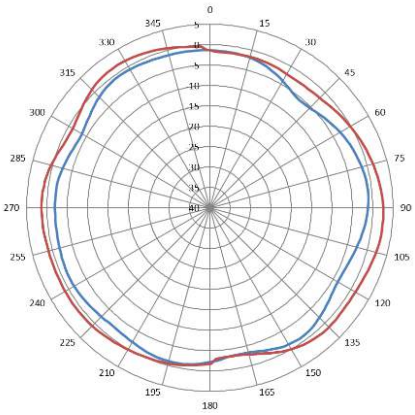
Minimum Operating System Software Versions

- AP-634 (excluding 6GHz support):
  - HPE Aruba Networking OS and HPE Networking InstantOS 8.11.2.0, HPE Aruba Networking OS 10.6.0.0
- AP-634 (including 6GHz support):
  - HPE Aruba Networking OS and HPE Networking InstantOS 8.12.0.0, HPE Aruba Networking OS 10.7.0.0
- AP-635:
  - HPE Aruba Networking OS and HPE Networking InstantOS 8.9.0.0, HPE Aruba Networking OS 10.4.0.0

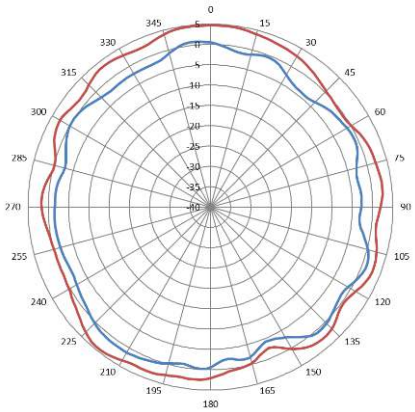
Antenna Patterns AP-635

Horizontal Planes (top view)

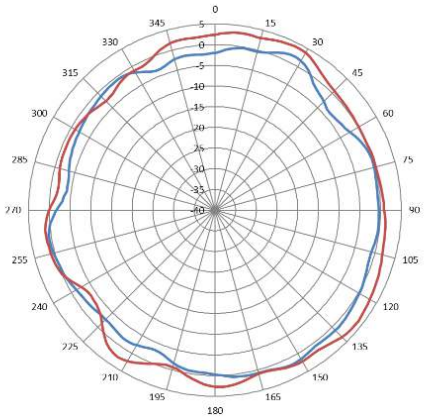
Showing both azimuth (0°) and 30° down-tilt patterns (averaged patterns for all applicable antennas)



2.45 GHz Wi-Fi antenna patterns (horizontal)



5.5 GHz Wi-Fi antenna patterns (horizontal)

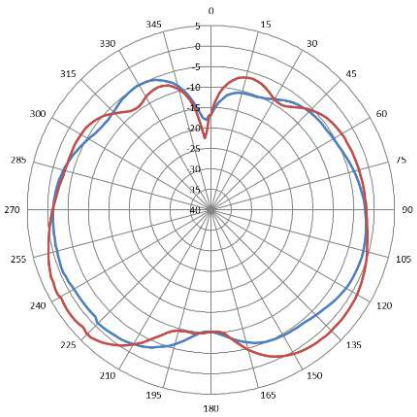


6.5 GHz Wi-Fi antenna patterns (horizontal)

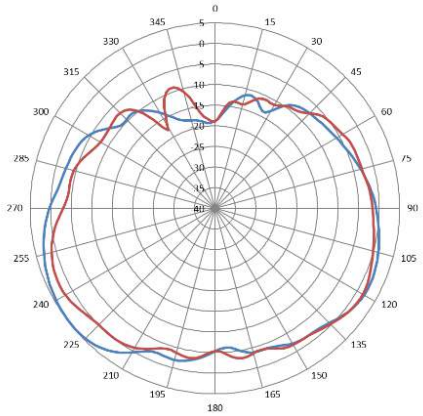
Antenna Patterns AP-635

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

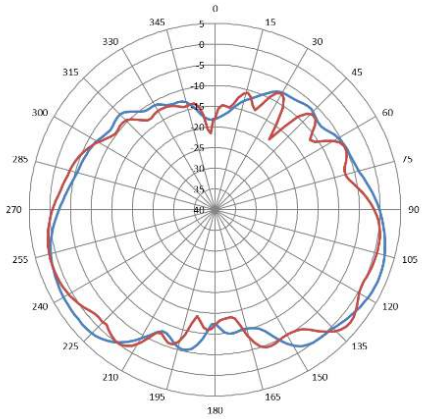
Showing side view with AP rotated 0° and 90° (averaged patterns for all applicable antennas)



2.45 GHz Wi-Fi antennas patterns (vertical)



5.5 GHz Wi-Fi antenna patterns (vertical)



6.5 GHz Wi-Fi antennas patterns (vertical)

Summary of Changes

Date	Version History	Action	Description of Change
17-Aug-2026	Version 14	Changed	New Central SKUs added in Configuration Information section: S1P97AAE, S1P98AAE.
27-Feb-2026	Version 13	Changed	Rebranding update applied to QuickSpecs
28-Jul-2025	Version 12	Changed	Update survey link.
07-Apr-2025	Version 11	Changed	Overview, Standard Features, Configuration Information, and Technical Specifications sections were updated.
16-Dec-2024	Version 10	Changed	Overview and Configuration Information sections were updated.
19-Aug-2024	Version 9	Changed	Configuration Information section was updated.
01-Jul-2024	Version 8	Changed	Configuration Information section was updated.
04-Dec-2023	Version 7	Changed	Series name was updated.
07-Aug-2023	Version 6	Changed	Configuration Information and Technical Specifications sections were updated.
01-May-2023	Version 5	Changed	Configuration Information section was updated, new SKU was added.
05-Jul-2022	Version 4	Changed	Configuration Information section was updated, new SKUs were added.
07-Feb-2022	Version 3	Changed	Configuration Information section was updated.
06-Dec-2021	Version 2	Changed	Technical Specifications section was updated.
02-Aug-2021	Version 1	New	New QuickSpecs

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