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# ARUBA 650 SERIES WI-FI 6E CAMPUS ACCESS POINTS

Flagship offering with the performance to meet growing enterprise needs with Wi-Fi 6E

By leveraging the 6 GHz band, Aruba 650 Series Campus APs delivers peak performance and far greater capacity than previous generations of Wi-Fi. With up to 1200 MHz of new channels, capacity is nearly tripled – so you can meet growing demand due to bandwidth-hungry video, increasing numbers of client and IoT devices and growth in cloud. Unique to Aruba, the 650 Series includes ultra tri-band filtering to minimize channel interference and dual configurable 5 Gbps ethernet ports to eliminate coverage gaps, provide greater resiliency, and deliver fast, secure connectivity.

## **MORE CAPACITY AND WIDER CHANNELS**

The 650 Series APs are designed to take advantage of the 6GHz band, which translates into far greater speeds, wider channels for multi-gigabit traffic, and less interference. The three 4x4 MIMO radios of the platform deliver a combined peak datarate of up to 7.8Gbps.

Band	Channel bandwidth	Peak data rate
6GHz	160MHz	4.8Gbps
5GHz	80MHz	2.4Gbps
2.4GHz	20MHz	574Mbps
Total		7.8Gbps

#### Advantages of 6GHz

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

#### **Device class support**

For operation in the 6GHz band, the 650 Series APs are part of the low power indoor (LPI) device class. This fixed indooronly 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 APs.



#### **KEY FEATURES**

- Comprehensive tri-band coverage across 2.4GHz, 5GHz, and 6GHz to deliver up to 7.8Gbps combined peak datarate
- 4x4 MIMO radios to deliver peak performance and increased capacity using MU-MIMO and OFDMA (uplink and downlink for both)
- Up to seven 160MHz channels in 6GHz support low-latency, bandwidth-hungry applications like high-definition video and augmented reality/virtual reality applications
- Unique ultra tri-band filtering enables 5GHz and 6GHz to operate without restrictions or interference
- High availability with configurable 5 Gbps dual Ethernet ports 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.

## LESS INTERFERENCE

650 Series Access Points include Aruba's ultra tri-band filtering, which enables enterprises to take advantage of the entire 5GHz and 6GHz bands without experiencing interference, while operating on any channel in either band concurrently. Since there is only 50MHz between 5GHz and the 6GHz, 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 650 APs provide high availability with two HPE Smart Rate ethernet ports for hitless failover for both data and power. Configurable to 1, 2.5, or 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 6GHz differently. The 650 Series APs are set up to automatically update regulatory rules once 6E regulations have been approved and certified.

#### **EXTEND THE BENEFITS OF WI-FI 6**

The 650 Series APs are based on the 802.11ax standard, which means that all its efficiency and security enhancements are also available on the 6GHz band. Wi-Fi 6 features such as Orthogonal Frequency Division Multiple Access (OFDMA), BSS coloring, Enhanced Open, and WPA3 are fully supported on the Aruba Wi-Fi 6E access points as well.

#### Advantages of OFDMA

This capability allows Aruba's APs 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. The 650 Series APs supports up to 37 resource units, the maximum as defined in the standard for an 80MHz channel.

#### Advantages of MU-MIMO

MU-MIMO can be used to increase the capacity and aggregate performance by relying on spatial multiplexing to communicate with up to four client devices simultaneously. The 650 Series APs supports 4x4 MU-MIMO in both uplink and downlink directions.

#### WI-FI OPTIMIZATION

#### **Client optimization**

Aruba'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 2.4GHz band to the preferred 5GHz or 6GHz 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, Aruba 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.

#### **Application Assurance**

With Air Slice, organizations can provide application assurance to their users that goes beyond the traditional capabilities of airtime fairness. After the SLAs are configured, Air Slice monitors network usage, automatically allocates radio resources, and dynamically adjusts radio resources as new users connect and applications sessions begin or end.

#### Aruba Advanced Cellular Coexistence (ACC)

Unique to Aruba, 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, Aruba APs continuously monitor and report hardware energy usage. Unlike other vendor's access points, Aruba APs 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 APs and update switching and power at a later if needed based on their actual usage. Other power options include adding a power injector or using Smart PoE to combine power from two cables.

#### SELF-LOCATING APS

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

The 650 Series Campus APs include built-in GPS receivers and intelligent software to allow them automatically locate themselves accurately within the universal framework of latitude and longitude. As part of Aruba's indoor location solution, they serve as reference points for client devices using fine time measurements and other location technologies. Aruba's Wi-Fi 6 and 6E APs support Open Locate, an emerging standard that allows APs to share their location over the air and through cloud-based APIs, enabling mobile devices to locate themselves and applications to support network analytics.

## **APS AS AN IOT PLATFORM**

The 650 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 USBport extension to provide IoT connectivity to a wider range of devices. These IoT capabilities allows organizations to leverage the Aruba APs 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 AP. This helps improve client power savings and reduces airtime contention with other clients, which is ideal for IoT.

## **ARUBA SECURE INFRASTRUCTURE**

The Aruba 650 Series 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 enterpriseprotected 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 Aruba 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.

## FLEXIBLE OPERATION AND MANAGEMENT

Our unified APs can operate as standalone access points or with a gateway for greater scalability, security, and manageability. APs can be deployed using zero touch provisioning – without on-site technical expertise – for ease of implementation in branch offices and for remote work.

Aruba APs can be managed using cloud-based or onpremises solutions for any campus, branch, or remote work environment. As the management and orchestration console for Aruba ESP (Edge Services Platform), Aruba Central provides a single pane of glass for overseeing every aspect of wired and wireless LANs, WANs, and VPNs. Al-powered analytics, end-to-end orchestration and automation, and advanced security features are built natively into the solution.

## SUMMARY

Aruba 650 Series Access Points are designed to take advantage of the 6GHz band using three 4x4 MIMO 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 combined 7.8 Gbps data rate for higher throughput and faster speeds for indoor use, the 650 Series raises the bar in terms of capacity, wider channels, hitless failover, and less interference between the 5GHz and 6GHz bands.

## SPECIFICATIONS

#### Hardware variants

• AP-655: Internal antenna models.

#### Wi-Fi radio specifications

- AP type: Indoor, tri-radio, 2.4GHz, 5GHz and 6GHz (concurrent) 802.11ax 4x4 MIMO.
- 2.4GHz radio: Four spatial streams MIMO for up to 1,147Mbps wireless data rate with HE40 802.11ax client devices (574Mbps for HE20).

- 5GHz radio: Four spatial streams MIMO for up to 2.4Gbps wireless data rate with HE80 802.11ax client devices.
- 6GHz radio: Four spatial streams MIMO for up to 4.8Gbps wireless data rate with HE160 802.11ax client devices.
- Both downlink and uplink MU-MIMO in 6GHz and 5GHz, downlink only in 2.4GHz.
- 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 2.4835GHz ISM
  - 5.150 to 5.250GHz U-NII-1
  - 5.250 to 5.350GHz U-NII-2A
  - 5.470 to 5.725GHz U-NII-2C
  - 5.725 to 5.850GHz U-NII-3/ISM
  - 5.850 to 5.895GHz U-NII-4
  - 5.925 to 6.425GHz U-NII-5
  - 6.425 to 6.525GHz U-NII-6
  - 6.525 to 6.875GHz U-NII-7
  - 6.875 to 7.125GHz 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 5GHz band.
  - 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: 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 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 and 1024-QAM
- 802.11n high-throughput (HT) support: HT20/40
- 802,11ac very high throughput (VHT) support: VHT20/40/80/160(80+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 600 (MCS0 to MCS31, HT20 to HT40), 800 with 256-QAM (proprietary extension)
- 802.11ac: 6.5 to 1,733 (MCS0 to MCS9, NSS = 1 to 4, VHT20 to VHT160(80+80));VHT80); 2,167 with 1024-QAM (MCS10 and MCS11, proprietary extension)
- 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(80+80))HE80)
- 802.11ax (6GHz): 3.6 to 4,804 (MCS0 to MCS11, NSS = 1 to 4,HE20 to HE160)
- 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 (2.4GHz / 5GHz / 6GHz): +24 dBm (18dBm 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
- Ultra Tri-Band (UTB) enables ultimate flexibility in 5GHz and 6GHz 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
- 802.11mc Fine Timing Measurement (FTM) for precision distance ranging

## Wi-Fi antennas

 AP-655: Integrated downtilt omni-directional antennas for 4x4 MIMO with peak antenna gain of 4.8dBi in 2.4GHz, 5.3dBi in 5GHz and 5.4dBi in 6GHz. 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 3.3dBi in 2.4GHz, 2.9dBi in 5GHz and 4.0dBi in 6GHz.

## Other interfaces

- E0, E1: Two Ethernet wired network ports (RJ-45)
  - 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) 802.3af/at/bt POE (class 3 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 6dBm transmit power and -101dBm receive sensitivity (125kbps)
  - Zigbee: up to 6dBm transmit power and -99dBm receive sensitivity (250kbps)
  - Integrated omnidirectional antenna with roughly 30 to 40 degrees downtilt and peak gain of 3.6dBi
- GNSS L1 (1575.42 MHz) receiver supporting GPS, Galileo, GLONASS, and BeiDou signal

- Receive sensitivity: -162dBm (tracking)
- Integrated omnidirectional antenna with roughly 30 to 40 degrees downtilt and peak gain of 3.1dBi

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- Advanced IOT Coexistence (AIC) allows concurrent operation of multiple radios in the 2.4GHz band
- Built-in Trusted Platform Module (TPM) for enhanced security and anti-counterfeiting
- Visual indictors (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

#### 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 combines power from both sources (SmartPOE feature), using EO as the primary source and E1 as secondary
- When both DC and POE power sources are available, DC power takes priority over POE
- Power sources are sold separately; see the 650 Series Ordering Guide for details
- The AP supports various **power modes** depending on the available power source(s) and configuration.
  - With IPM disabled, the AP may apply some static restrictions, see tables below.

Single POE source	class 6 (802.3bt)	class 5 (802.3bt)	class 4 (802.3at)	class 3 (802.3af)	
Power budget	51W	40W	25.5W	13.9W	
Power mode	Unrestricted	Restricted	Restricted		
USB port	Enabled	Disabled	Disabled		
Ethernet	Both ports enabled	Second port disabled	Second port disabled	Not supported	
MIMO	4x4	2x2	2x2		
Max RF power reduction	0dB	0dB	0dB		
Dual POE source	class 5 + class 3+	class 4 + class 4	class 4 + class 3	class 3 + class 3	
Power budget	53.9W+	51W	39.4W	27.8W	
Power mode	Unrestricted	Unrestricted	Restricted	Restricted	
USB port	Enabled	Enabled	Disabled	Disabled	
Ethernet	Both ports enabled	Both ports enabled	Both ports enabled	Both ports enabled	
MIMO	4x4	4x4	4x4	2x2	
	0dB	OdB	3dB	0dB	

#### Default POE power modes (IPM disabled)

- 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.
- When powered by direct DC power, the AP operates without restrictions.
- Powering the AP from a single 802.3af (class 3 or lower) POE source is not supported, regardless of IPM status.
- Maximum (worst-case) power consumption (without / with a USB device attached):
  - DC powered: 36.0W/42.5W.
  - POE powered: 40.3W/46.5W.
  - This assumes that up to 5W is supplied to the attached USB device.
- Maximum (worst-case) power consumption in idle mode: 14.3W/20.2W (DC) or 16.9W/22.7W (POE).
- Maximum (worst-case) power consumption in deep-sleep mode: 2.4W (DC) or 4.0W (POE).

## 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 650 Series Ordering Guide for details.

#### Mechanical specifications

- Dimensions/weight (AP-655; unit without mount bracket):
  260mm (W) x 260mm (D) x 60mm (H)
  - 1,800g
- Dimensions/weight (AP-655; shipping):
  - 285mm (W) x 285mm (D) x 95mm (H)
  - 2,300g

## **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 conditions
  - Temperature: -25C to +55C / -13F to +131F
  - Relative humidity: 10% to 100%
  - ETS 300 019 class 1.2 environments
- Transportation conditions

- Temperature: -40C to +70C / -40F to +158F
- Relative humidity: up to 95%
- ETS 300 019 class 2.3 environments

#### Reliability

Mean Time Between Failure (MTBF): 461khrs (53yrs) at +25C operating temperature.

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## **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 Aruba representative.

## **Regulatory model numbers**

• AP-655 (all models): APIN0655

## Certifications

- UL2043 plenum rating
- Wi-Fi Alliance (WFA):
  - 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, W-Fi Agile Multiband
  - Passpoint (release 2)
- Bluetooth SIG
- Ethernet Alliance (POE, PD device, class 6)

## WARRANTY

Aruba's hardware limited lifetime warranty.

## MINIMUM OPERATING SYSTEM SOFTWARE VERSIONS

- ArubaOS and Aruba InstantOS 8.10.0.1
- ArubaOS 10.4.0.0

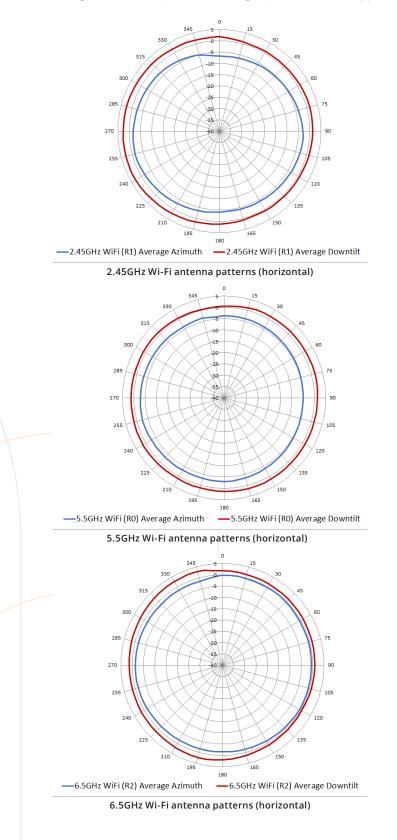
## **RF PERFORMANCE TABLE**

Band, rate	Maximum transmit power (dBm) per transmit chain	Receiver sensitivity (dBm) per receive chain	
2.4GHz, 802.11b			
1Mbps	18.0	-98.0	
11Mbps	18.0	-89.0	
2.4GHz, 802.11g			
6Mbps	18.0	-92.0	
54Mbps	18.0	-76.0	
2.4GHz, 802.11n HT20			
MCS0	18.0	-93.0	
MCS7	17.0	-74.0	
2.4GHz, 802.11ax HE20			
MCS0	18.0	-93.0	
MCS7	16.0	-74.0	
MCS9	15.0	-70.0	
MCS11	13.0	-64.0	
5GHz, 802.11a			
6Mbps	18.0	-91.0	
54Mbps	18.0	-73.0	
5GHz, 802.11n HT20 / HT40			
MCS0	18.0 / 18.0	-91.0 / -88.0	
MCS7	16.0 / 16.0	-70.0 / -67.0	
5GHz, 802.11ac VHT20 / VH	T40 / VHT80/VHT(80+80)		
MCS0	18.0 / 18.0 / 18.0	-91.0 / -88.0 / -85.0 / -82.0	
MCS7	16.0 / 16.0 / 16.0 / 16.0	-71.0 / -68.0 / -65.0 / -62.0	
5GHz, 802.11ax HE20 / HE4	0 / HE80/HE(80+80)		
MCS0	18.0 / 18.0 / 18.0 / 18.0	-91.0 / -88.0 / -85.0 / -82.0	
MCS7	16.0 / 16.0 / 16.0 / 16.0	-71.0 / -68.0 / -65.0 / -62.0	
MCS9	15.0 / 15.0 / 15.0 / 15.0	-66.0 / -63.0 / -60.0 / -57.0	
MCS11	13.0 / 13.0 / 13.0 / 13.0	-62.0 / -59.0 / -56.0 / -53.0	
6GHz, 802.11ax HE20 / HE4	0 / HE80 / HE160		
MCS0	18.0 / 18.0 / 18.0 / 18.0	-90.0 / -87.0 / -84.0 / -81.0	
MCS7	16.0 / 16.0 / 16.0 / 16.0	-74.0 / -71.0 / -68.0 / -65.0	
MCS9	15.0 / 15.0 / 15.0 / 15.0	-68.0 / -65.0 / -62.0 / -59.0	
MCS11	13.0 / 13.0 / 13.0 / 13.0	-63.0 / -60.0 / -57.0 / -54.0	

## **ANTENNA PATTERNS AP-655**

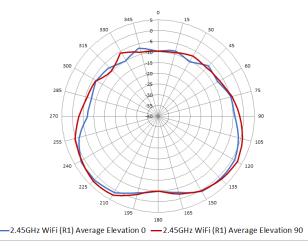
#### Horizontal planes (top view)

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

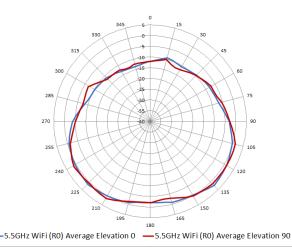


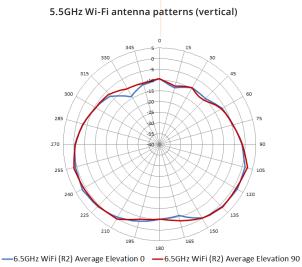
## Vertical (elevation) planes (side view, AP facing down)

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









6.5GHz Wi-Fi antennas patterns (vertical)

## ARUBA 650 SERIES WI-FI 6E CAMPUS ACCESS POINTS

ARUBA 650 SERIES CAMPUS ACCESS POINTS				
Part number	Description			
Internal antenna access points				
R7J35A	Aruba AP-655 (EG) Tri-radio 4x4:4 802.11ax Wi-Fi 6E Internal Antennas Campus AP			
R7J36A	Aruba AP-655 (IL) Tri-radio 4x4:4 802.11ax Wi-Fi 6E Internal Antennas Campus AP			
R7J37A	Aruba AP-655 (JP) Tri-radio 4x4:4 802.11ax Wi-Fi 6E Internal Antennas Campus AP			
R7J38A	Aruba AP-655 (RW) Tri-radio 4x4:4 802.11ax Wi-Fi 6E Internal Antennas Campus AP			
R7J39A	Aruba AP-655 (US) Tri-radio 4x4:4 802.11ax Wi-Fi 6E Internal Antennas Campus AP			
Internal antenna access points – TAA models				
R7J40A	Aruba AP-655 (EG) TAA Tri-radio 4x4:4 802.11ax Wi-Fi 6E Internal Antennas Campus AP			
R7J41A	Aruba AP-655 (IL) TAA Tri-radio 4x4:4 802.11ax Wi-Fi 6E Internal Antennas Campus AP			
R7J42A	Aruba AP-655 (JP) TAA Tri-radio 4x4:4 802.11ax Wi-Fi 6E Internal Antennas Campus AP			
R7J43A	Aruba AP-655 (RW) TAA Tri-radio 4x4:4 802.11ax Wi-Fi 6E Internal Antennas Campus AP			
R7J44A	Aruba AP-655 (US) TAA Tri-radio 4x4:4 802.11ax Wi-Fi 6E Internal Antennas Campus AP			

For compatible accessories, see the 650 Series Ordering Guide.



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