

# HPE Aruba Networking 650 Series Campus Access Points



## What's new

- Flagship Wi-Fi 6E APs provide tri-band coverage across 2.4 GHz, 5 GHz, and 6 GHz to deliver up to 7.8 Gbps combined aggregate data rate
- 4x4 MIMO radios to deliver peak performance and increased capacity using multi-user (MU-MIMO) and orthogonal frequency-division multiple access (OFDMA) (uplink and downlink for both)
- Patented UTB filtering enhances the use of 5 GHz and 6 GHz bands
- High availability with dual 5 Gbps wired ports for redundant Ethernet and power
- Built-in GPS receivers and intelligent

## Overview

The HPE Aruba Networking 650 Series Campus Access Points are our flagship Wi-Fi 6E access points (APs) that take advantage of the 6 GHz band for greater capacity, wider channels, and interference-free spectrum. Designed to meet the demands of bandwidth-hungry video, a growing numbers of client and Internet of Things (IoT) devices, and the growth of cloud services, these high-performance Wi-Fi 6E APs provide comprehensive tri-band coverage across 2.4 GHz, 5 GHz, and 6 GHz to deliver up to 7.8 Gbps combined aggregate data rate.

The 650 series includes ultra tri-band (UTB) filtering to help minimize channel interference and dual configurable 5 Gbps Ethernet ports to mitigate coverage gaps, provide greater resiliency, and deliver fast, secure connectivity. Up to seven 160 MHz channels in 6 GHz support low-latency, bandwidth-hungry applications such as high-definition video and AR/VR applications. The 650 series includes a limited lifetime warranty.

software enable APs to self-locate and act as reference points for more accurate indoor location measurements

- IoT-ready with support for Bluetooth Low Energy (BLE) and Zigbee

## Features

### Flagship Wi-Fi 6E Performance

The HPE Aruba Networking 650 Series Campus Access Points, based on the 802.11ax standard, take advantage of the 6 GHz band through three 4x4 MIMO radios (2.4 GHz, 5 GHz, and 6 GHz), delivering up to 7.8 Gbps maximum tri-band aggregate data rate.

The 650 series provides high availability with two 5 GbE ports for hitless failover for both data and power, allowing these dual ports to provide business continuity for mission-critical applications with flexibility to support speeds of 1 Gbps, 2.5 Gbps, or 5 Gbps (or 100 Mbps).

Enhanced wireless experience with HPE Aruba Networking ClientMatch technology removes sticky client issues by steering a client to the AP where it receives one of the best radio signals.

Patented UTB filtering enables enterprises to take advantage of the high end of 5 GHz with the lower end of 6 GHz without creating coverage gaps or islands.

The 650 series offers precision locationing with the support of FTM 802.11mc for precision distance ranging and built-in GPS receivers for high-accuracy indoor location measurements.

### Boost Security

The HPE Aruba Networking 650 Series Campus Access Points offer enhanced security with dynamic segmentation to remove the time-consuming and error-prone task of managing complex and static VLANs, ACLs, and subnets by dynamically assigning policies and keeping traffic protected and separated.

The 650 series offers stronger encryption and authentication with WPA3, protected credential/key storage for guest access with Enhanced Open, and user and IoT access policy enforcement firewalls (PEFs).

It simplifies policy enforcement by using the PEF to encapsulate all traffic from the AP to the gateway (or mobility controller) for end-to-end encryption and inspection.

For enhanced device assurance, our APs include an installed trusted platform module (TPM) for protected storage of credentials and keys, and boot code.

### AI-powered Cloud Management and Flexible Deployment

The HPE Aruba Networking 650 Series Campus Access Points can operate as stand-alone access points or with a gateway for greater scalability, security, and manageability.

HPE Aruba Networking Central is an AI-powered solution that simplifies IT operations, improves agility, and reduces costs by unifying the management of campus, branch, remote, data center, and IoT networks from one dashboard.

Zero touch provisioning (ZTP) provides ease of implementation in branch offices and remote sites, without on-site technical expertise.

You can deploy models with internal antennas or connectorized models that support external antennas to meet a range of environments.

HPE Aruba Networking Wi-Fi 6E APs allow countries to take advantage of Wi-Fi 6E once it is approved in the country through automated notification and easy deployment of 6 GHz regulatory rules.

### **Energy Saving and IoT Ready**

The HPE Aruba Networking 650 Series Campus Access Points can serve as flexible IoT platforms that bolster network security and provide coverage for a broad range of IoT devices without the need for network overlays. Integrated BLE and Zigbee support make it easier to deploy and manage IoT.

Advanced IoT Coexistence (AIC) feature uses built-in filtering to allow Wi-Fi and BLE/Zigbee radios to operate at greater capacity without the impact of interference.

HPE Aruba Networking Central Client Insights uses deep packet inspection to provide additional context and behavioral information that help verify devices are receiving proper policy enforcement and continuously monitor for rogue devices.

AI-powered dynamic power save mode enables the HPE Aruba Networking 650 Series Campus Access Points to automatically wake up at a schedule when connectivity demand arises, reducing power demands and lowering the energy footprint to align with the organization's sustainability initiatives.

The target wake time (TWT) establishes a schedule for when clients need to communicate with an AP to help improve client power savings and reduce airtime contention.

Technical specifications	HPE Aruba Networking 650 Series Campus Access Points
<b>Deployment</b>	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6E (802.11ax with 6 GHz)
<b>Wi-Fi radios</b>	4x4:4
<b>Radio configuration options</b>	2.4 GHz, 5 GHz and 6 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps
<b>Wi-Fi antenna</b>	HPE Aruba Networking 650 Series Campus Access Points models: AP-654: Two sets of four (female) RP-SMA connectors for external antennas. AP-655: Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.
<b>Ultra tri-band (UTB) filtering</b>	Yes
<b>IoT support</b>	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)
<b>Integrated sensor</b>	No
<b>Location services</b>	802.11 FTM support GNSS receiver
<b>Cellular support</b>	USB LTE modem (sold separately)
<b>Wired network interface</b>	2 x 5 Gbps
<b>MACsec support</b>	No
<b>AP operating system support</b>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>
<b>AP management</b>	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service

**Certifications**

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

**Regulatory**

FCC/ISED  
 CE Marked  
 Low Voltage Directive 2014/35/EU  
 UL/IEC/EN 62368-1  
 EN 60601-1-2

For country-specific regulatory information and approvals, contact your HPE representative.

**Warranty**

Limited lifetime warranty. See the [warranty duration](#).

**Weight**

1800g

**Product dimensions**

260mm x 260mm x 56mm

**Ports**

Ports E0, E1: Ethernet wired network ports (RJ-45)  
 U0: USB 2.0 host interface (Type A connector)  
 Kensington security slot  
 Serial console interface (proprietary, micro B USB physical jack)

## SKU comparison

	HPE Aruba Networking AP-654 (RW) Tri Radio 4x4 Wi-Fi 6E External Antennas Campus AP (S1G53A)	HPE Aruba Networking AP-654 (RWF1) Tri Radio 4x4 Wi-Fi 6E External Antennas TAA Campus AP (S1G55A)	HPE Aruba Networking AP-654 (US) Tri Radio 4x4 Wi-Fi 6E External Antennas Campus AP (S1G54A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6E (802.11ax with 6 GHz)	Wi-Fi 6E (802.11ax with 6 GHz)	Wi-Fi 6E (802.11ax with 6 GHz)
<b>Wi-Fi radios</b>	4x4:4	4x4:4	4x4:4
<b>Radio configuration options</b>	2.4 GHz, 5 GHz and 6 GHz	2.4 GHz, 5 GHz and 6 GHz	2.4 GHz, 5 GHz and 6 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps
<b>Wi-Fi antenna</b>	Two sets of four (female) RP-SMA connectors for external antennas.	HPE Aruba Networking 650 Series Campus Access Points models: AP-654: Two sets of four (female) RP-SMA connectors for external antennas. AP-655: Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.	Two sets of four (female) RP-SMA connectors for external antennas.
<b>Ultra tri-band (UTB) filtering</b>	Yes	Yes	Yes
<b>IoT support</b>	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support; GNSS receiver	802.11 FTM support; GNSS receiver	802.11 FTM support; GNSS receiver
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	2 x 5 Gbps	2 x 5 Gbps	2 x 5 Gbps
<b>MACsec support</b>	No	No	No

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<b>AP operating system support</b>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>

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<b>Regulatory</b>	<p>Series Content: FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p> <p>The AP-654 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.</p>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>	<p>Series Content: FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p> <p>The AP-654 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.</p>
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)	Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)	Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)

	HPE Aruba Networking AP-654 (USF1) Tri Radio 4x4 Wi-Fi 6E External Antennas TAA Campus AP (S1G56A)	HPE Aruba Networking AP-655 (EG) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J35A)	HPE Aruba Networking AP-655 (EG) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J40A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6E (802.11ax with 6 GHz)	Wi-Fi 6E (802.11ax with 6 GHz)	Wi-Fi 6E (802.11ax with 6 GHz)
<b>Wi-Fi radios</b>	4x4:4	4x4:4	4x4:4
<b>Radio configuration options</b>	2.4 GHz, 5 GHz and 6 GHz	2.4 GHz, 5 GHz and 6 GHz	2.4 GHz, 5 GHz and 6 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps
<b>Wi-Fi antenna</b>	HPE Aruba Networking 650 Series Campus Access Points models: AP-654: Two sets of four (female) RP-SMA connectors for external antennas. AP-655: Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.	Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.	Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.
<b>Ultra tri-band (UTB) filtering</b>	Yes	Yes	Yes
<b>IoT support</b>	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support; GNSS receiver	802.11 FTM support; GNSS receiver	802.11 FTM support; GNSS receiver
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	2 x 5 Gbps	2 x 5 Gbps	2 x 5 Gbps
<b>MACsec support</b>	No	No	No

	HPE Aruba Networking AP-654 (USF1) Tri Radio 4x4 Wi-Fi 6E External Antennas TAA Campus AP (S1G56A)	HPE Aruba Networking AP-655 (EG) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J35A)	HPE Aruba Networking AP-655 (EG) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J40A)
<b>AP operating system support</b>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>

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<b>Regulatory</b>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	<p>Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)</p>	<p>Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)</p>	<p>Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)</p>

	HPE Aruba Networking AP-655 (ID) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (S5E08A)	HPE Aruba Networking AP-655 (IL) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J36A)	HPE Aruba Networking AP-655 (IL) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J41A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6E (802.11ax with 6 GHz)	Wi-Fi 6E (802.11ax with 6 GHz)	Wi-Fi 6E (802.11ax with 6 GHz)
<b>Wi-Fi radios</b>	4x4:4	4x4:4	4x4:4
<b>Radio configuration options</b>	2.4 GHz, 5 GHz and 6 GHz	2.4 GHz, 5 GHz and 6 GHz	2.4 GHz, 5 GHz and 6 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps
<b>Wi-Fi antenna</b>	Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.	Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.	Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.
<b>Ultra tri-band (UTB) filtering</b>	Yes	Yes	Yes
<b>IoT support</b>	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support; GNSS receiver	802.11 FTM support; GNSS receiver	802.11 FTM support; GNSS receiver
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	2 x 5 Gbps	2 x 5 Gbps	2 x 5 Gbps
<b>MACsec support</b>	No	No	No

	HPE Aruba Networking AP-655 (ID) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (S5E08A)	HPE Aruba Networking AP-655 (IL) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J36A)	HPE Aruba Networking AP-655 (IL) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J41A)
<b>AP operating system support</b>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>

	HPE Aruba Networking AP-655 (ID) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (S5E08A)	HPE Aruba Networking AP-655 (IL) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J36A)	HPE Aruba Networking AP-655 (IL) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J41A)
<b>Regulatory</b>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)	Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)	Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)

	HPE Aruba Networking AP-655 (JP) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J37A)	HPE Aruba Networking AP-655 (JP) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J42A)	HPE Aruba Networking AP-655 (RW) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J38A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6E (802.11ax with 6 GHz)	Wi-Fi 6E (802.11ax with 6 GHz)	Wi-Fi 6E (802.11ax with 6 GHz)
<b>Wi-Fi radios</b>	4x4:4	4x4:4	4x4:4
<b>Radio configuration options</b>	2.4 GHz, 5 GHz and 6 GHz	2.4 GHz, 5 GHz and 6 GHz	2.4 GHz, 5 GHz and 6 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps
<b>Wi-Fi antenna</b>	Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.	Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.	Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.
<b>Ultra tri-band (UTB) filtering</b>	Yes	Yes	Yes
<b>IoT support</b>	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support; GNSS receiver	802.11 FTM support; GNSS receiver	802.11 FTM support; GNSS receiver
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	2 x 5 Gbps	2 x 5 Gbps	2 x 5 Gbps
<b>MACsec support</b>	No	No	No

	HPE Aruba Networking AP-655 (JP) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J37A)	HPE Aruba Networking AP-655 (JP) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J42A)	HPE Aruba Networking AP-655 (RW) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J38A)
<b>AP operating system support</b>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>

	HPE Aruba Networking AP-655 (JP) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J37A)	HPE Aruba Networking AP-655 (JP) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J42A)	HPE Aruba Networking AP-655 (RW) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J38A)
<b>Regulatory</b>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	<p>Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)</p>	<p>Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)</p>	<p>Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)</p>

	HPE Aruba Networking AP-655 (RW) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J43A)	HPE Aruba Networking AP-655 (US) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J39A)	HPE Aruba Networking AP-655 (US) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J44A)
<b>Deployment</b>	Indoor	Indoor	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6E (802.11ax with 6 GHz)	Wi-Fi 6E (802.11ax with 6 GHz)	Wi-Fi 6E (802.11ax with 6 GHz)
<b>Wi-Fi radios</b>	4x4:4	4x4:4	4x4:4
<b>Radio configuration options</b>	2.4 GHz, 5 GHz and 6 GHz	2.4 GHz, 5 GHz and 6 GHz	2.4 GHz, 5 GHz and 6 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps	20/40 (2.4 GHz), 20/40/80/(80+80) (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 7.8 Gbps
<b>Wi-Fi antenna</b>	Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.	Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.	Integrated downtilt omnidirectional antennas for 4x4 MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30° to 40°.
<b>Ultra tri-band (UTB) filtering</b>	Yes	Yes	Yes
<b>IoT support</b>	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)	Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio, USB 2.0 host interface (Type A connector)
<b>Integrated sensor</b>	No	No	No
<b>Location services</b>	802.11 FTM support; GNSS receiver	802.11 FTM support; GNSS receiver	802.11 FTM support; GNSS receiver
<b>Cellular support</b>	USB LTE modem (sold separately)	USB LTE modem (sold separately)	USB LTE modem (sold separately)
<b>Wired network interface</b>	2 x 5 Gbps	2 x 5 Gbps	2 x 5 Gbps
<b>MACsec support</b>	No	No	No

	HPE Aruba Networking AP-655 (RW) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J43A)	HPE Aruba Networking AP-655 (US) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J39A)	HPE Aruba Networking AP-655 (US) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J44A)
<b>AP operating system support</b>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>	<p>AP-654 (excluding 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.2.0, HPE Aruba Networking Wireless Operating System 10.6.0.0</p> <p>AP-654 (including 6 GHz support): HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.12.0.0, HPE Aruba Networking Wireless Operating System 10.7.0.01</p> <p>AP-655: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.10.0.1, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-654 is only supported on HPE Aruba Networking Wireless Operating System software release 10.7.0.0 and later deployments and HPE Aruba Networking Wireless Operating System software release 8.12.0.0 and later deployments that include a HPE Aruba Networking Virtual Mobility Conductor. SP operation is not supported on Instant OS deployments or 8.x OS deployments without a HPE Aruba Networking Virtual Mobility Conductor.</p>
<b>AP management</b>	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service	On-premises; Public Cloud; Virtual Private Cloud (VPC); as a Service
<b>Certifications</b>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>	<ul style="list-style-type: none"> <li>UL2043 plenum rating</li> <li>WiFi Alliance®</li> <li>Wi-Fi CERTIFIED® a, b, g, n, ac</li> <li>Wi-Fi CERTIFIED 6E (ax, 6 GHz)</li> <li>WPA, WPA2, and WPA3 - Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE)</li> <li>WMM, WMM-PS, W-Fi Agile Multiband</li> <li>Bluetooth SIG</li> <li>Ethernet Alliance (PoE, PD device, class 6)</li> </ul>

	HPE Aruba Networking AP-655 (RW) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J43A)	HPE Aruba Networking AP-655 (US) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J39A)	HPE Aruba Networking AP-655 (US) Tri Radio 4x4 802.11ax Wi-Fi 6E Internal Antennas TAA Campus AP (R7J44A)
<b>Regulatory</b>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>	<p>FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2</p> <p>For country-specific regulatory information and approvals, contact your HPE representative.</p>
<b>Warranty</b>	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.	Limited lifetime warranty. See the warranty duration.
<b>Ports</b>	<p>Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)</p>	<p>Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)</p>	<p>Ports E0, E1: Ethernet wired network ports (RJ-45) U0: USB 2.0 host interface (Type A connector) Kensington security slot Serial console interface (proprietary, micro B USB physical jack)</p>

# HPE Aruba Networking Services

HPE Aruba Networking services simplify and accelerate the network technology lifecycle, enabling your network to scale with better predictability and cost-effectiveness. Whether you operate your own network and need to improve your IT efficiencies, or you want to offload some of the burden, we have the services you need to reach your goals.

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