

# HPE Aruba Networking 630 Series Campus Access Points

**HPE Aruba Networking AP-635 (EG) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas Campus AP (R7J24A)**



## What's new

- Three radios to extend the benefits of Wi-Fi 6E to the 6 GHz band accessing up to 1200 MHz of spectrum
- Wider channels and less interference to deliver faster speeds for low-latency, bandwidth-hungry applications like high-definition video and augmented reality / virtual reality
- Unique filtering capabilities to mitigate gaps in coverage and help minimize interference between the 5

## Overview

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. With 6 GHz, wireless capacity is more than doubled, allowing enterprises to meet needs today and plan for future growth. The Wi-Fi 6E APs allow countries to take advantage of Wi-Fi 6E once it is approved in country through automated notification and easy deployment of 6 GHz regulatory tables.

The 630 series delivers a maximum aggregate 3.9 Gbps data rate for higher throughput and faster speeds for fixed low power indoor (LPI) use. With up to seven 160 MHz channels, the 630 series increases performance for low-

GHz and 6 GHz bands

- High availability with hitless failover for Ethernet and power to help ensure business continuity
- Automated notification and easy deployment of 6 GHz regulatory tables to allow countries to take advantage of Wi-Fi 6E, once it is approved in the country

latency, bandwidth-hungry applications. The ultra tri-band (UTB) filtering eliminates interference between 5 GHz and 6 GHz and prevents gaps in channel coverage. To ensure high availability, the 630 series includes dual port hitless failover for Ethernet and power.

## Features

### More Capacity and Wider Channels with Wi-Fi 6E

The HPE Aruba Networking 630 Series Campus Access Points deliver a maximum aggregate 3.9 Gbps data rate for higher throughput and faster speeds.

With up to seven 160 MHz channels, the APs help maximize performance for low-latency, bandwidth-hungry applications.

It is designed for low power indoor (LPI) environments.

### Less Interference and Fewer Coverage Gaps

The HPE Aruba Networking 630 Series Campus Access Points provide comprehensive tri-band coverage using three radios.

The unique ultra tri-band (UTB) filtering mitigates interference among 5 GHz and 6 GHz radios and prevents gaps in channel coverage.

Since only Wi-Fi 6E devices can operate in the 6 GHz band, it is less congested with no interference from legacy devices.

### Extends capabilities of Wi-Fi 6 (802.11ax) APs

HPE Aruba Networking 630 Series Campus Access Points are based on the 802.11ax standard so multiuser efficiency and security features are applied to Wi-Fi 6E.

Unique capabilities include HPE Aruba Networking ClientMatch, advanced cellular coexistence (ACC), and intelligent power monitoring (IPM) to optimize user experience and energy use.

### Ensures Business Continuity and High Availability

High availability with two HPE Smart Rate Ethernet ports offer true hitless failover for both data and power.

Cloud, controller, or controllerless operation modes address all campus, branch, and remote use cases.

Technical specifications	HPE Aruba Networking AP-635 (EG) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas Campus AP
Product Number	R7J24A
Differentiator	Available in Egypt only
Deployment	Indoor
Wi-Fi generation	Wi-Fi 6E (802.11ax with 6 GHz)
Wi-Fi radios	Triple 2x2
Radio configuration options	2.4 GHz and 5 GHz and 6 GHz
Max bandwidths and peak data rate per band	20/40 (2.4 GHz), 20/40/80 (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 3.9 Gbps
Wi-Fi antenna	<p>Two integrated dual-band downtilt omnidirectional 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 degrees.</p> <p>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.</p>
Ultra tri-band (UTB) filtering	Yes
IoT support	IEEE 802.15.4/Zigbee or Bluetooth 5.0, USB port
Integrated sensor	No
Location services	802.11 FTM support GNSS receiver
Cellular support	USB LTE modem (sold separately)
Wired network interface	2 x 2.5GbE
MACsec support	No
AP operating system support	<p>AP-634 (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-634 (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 10.7.0.03</p> <p>AP-635: HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.9.0.0, HPE Aruba Networking Wireless Operating System 10.4.0.0</p> <p>Standard power product class operation of the AP-634 is only supported on HPE Aruba Networking OS 10.7.0.0 and later deployments and HPE Aruba Networking OS 8.12.0.0 and later deployments that include a HPE Aruba Networking Mobility Conductor. Standard power operation is not supported on Instant OS deployments or 8.x HPE Aruba Networking OS deployments without a HPE Aruba Networking Mobility Conductor.</p>

Technical specifications		HPE Aruba Networking AP-635 (EG) Tri Radio 2x2 802.11ax Wi-Fi 6E Internal Antennas Campus AP
AP management	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 5)	
Regulatory	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	
Warranty	Limited lifetime warranty. See the warranty duration.	
Weight	1300g	
Product dimensions	220mm (W) x 220mm (D) x 50mm (H)	
Input voltage	12 Vdc (+/- 5%) or 48 Vdc (nominal) PoE	
Heat dissipation	66.3 BTU/hr worst case (PoE powered), 57.9 BTU/hr worst case (DC)	
Connectivity, standard	Wi-Fi 6E (IEEE 802.11ax) WLAN: tri radio, 2.4 GHz, 5 GHz and 6 GHz (concurrent) 802.11ax 2x2 MIMO Bluetooth Low Energy (BLE5.0) and Zigbee (802.15.4) radio	
Ports	EO, E1: Two Ethernet wired network ports (RJ-45) Auto-sensing link speed (100/1000/2500BASE-T) and MDI/MDX 2.5Gbps speed complies 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)	
Mounting	A mounting bracket has been pre-installed on the back of the AP. This bracket is used to secure the AP to any of the mount kits (sold separately).	
Power consumption	23.8 W worst case (POE powered), 20.7 W worst case (DC). Excludes power needed to supply up to 5W to an attached USB device.	
Radio coverage	Indoor, tri radio, 2.4 GHz, 5 GHz and 6 GHz (concurrent) 802.11ax 2x2 MIMO	

# 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.

Learn more about what HPE Services - Aruba Networking has to offer at: [hpe.com/edge/services](https://hpe.com/edge/services)

## Support Services

Our support portfolio provides the essential support elements as well as proactive and preventive features to help you improve your team's productivity and get the most from your network. Our support customers benefit from faster issue resolution, simplified operations and efficiencies, and reduced network issues.

## Professional Services

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Project based services include:	Annual subscription services include:
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— Architecture review and design	— Intelligent Operations
— Deployment, migration, and knowledge transfer	— Customer Experience Management

Our [Education Services](#) allow your team to come up to speed quickly.

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Our NaaS solution, is part of the HPE GreenLake services family, and simplifies network operations, accelerates equipment handling, and increases the value of your HPE Aruba Networking solution. If you need expert guidance and automation-based operations for your team, please explore our NaaS approach through HPE GreenLake for Networking.

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