

# HPE Aruba Networking AP-504 (RW) Dual Radio 2x2 802.11ax External Antennas Unified Campus AP (R2H22A)



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## What's new

- Wi-Fi 6 for high performance and efficiency.
- Provides policy enforcement for wireless traffic through Dynamic Segmentation.
- IoT-ready with a built-in Bluetooth 5 and 802.15.4 radio that supports Zigbee®.

## Overview

The HPE Aruba Networking 500 Series Campus Access Points provide high-performance connectivity to budget-conscious organizations experiencing growing numbers of mobile, IoT and mobility requirements. Supporting the latest Wi-Fi 6 standard, the HPE Aruba Networking 500 Series can achieve a maximum aggregate data rate of 1.77 Gbps (1.774 Gbps) for venues and workplaces such as schools, midsize offices, and retailers.

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- Supports up to 256 associated clients per radio.
  - Can be deployed as a cloud-managed Instant AP or controller-based AP.

The HPE Aruba Networking 500 Series Campus Access Points are also designed to provide improved user experiences by integrating key Wi-Fi optimization technologies for increased Wi-Fi efficiency and optimized client airtime.

## Features

### Incredible Efficiency with Wi-Fi 6

The HPE Aruba Networking 500 Series Campus Access Points support the Wi-Fi 6 standard, including features such as orthogonal frequency-division multiple access (OFDMA), bi-directional Multi-User MIMO (MU-MIMO), and Target Wait Time (TWT).

Patented RF optimization technologies like ClientMatch have also been enhanced with Wi-Fi 6 awareness to group Wi-Fi 6-capable client devices together for optimized network utilization.

The HPE Aruba Networking 500 Series Campus Access Points also supports AirSlice, a unique capability that enhances OFDMA with SLA-grade application assurance from the access point to the client device.

### Infrastructure Designed with Flexibility in Mind

The HPE Aruba Networking 500 Series Campus Access Points can be deployed in either controller-less or controller-based mode, depending on enterprise requirements.

This product can be managed locally, in the cloud with Aruba Central, or through a converged multivendor on-premises solution with Aruba AirWave.

It also comes with Intelligent Power Monitoring to enable or disable AP features based on available PoE power from a network switch.

### IoT Platform Capabilities

The HPE Aruba Networking 500 Series Campus Access Points have the ability to support up to 256 associated clients per Wi-Fi radio – ideal for organizations deploying Wi-Fi connected IoT devices.

Supports Bluetooth 5 and Zigbee® wireless protocols through an integrated IoT radio, and third-party expansion with an integrated USB port.

Features improved client visibility with integrated device profiling, and the option for advanced insights when integrated with ClearPass Policy Manager or ClearPass Device Insight.

## Technical specifications

# HPE Aruba Networking AP-504 (RW) Dual Radio 2x2 802.11ax External Antennas Unified Campus AP

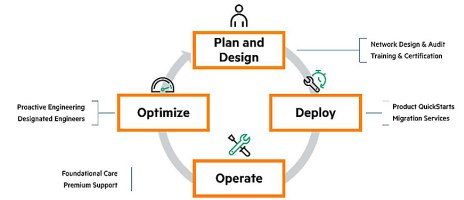
<b>Product Number</b>	R2H22A
<b>Differentiator</b>	Aruba 500 Series Wireless Access Points provide high performance cost-effective connectivity for medium density indoor environments. Deployed as IoT platforms, support multiple wireless mediums such as Bluetooth, Zigbee®, and custom applications. Innovative features such as AirSlice and Wi-Fi 6-aware ClientMatch. Two RP-SMA connectors for external dual band antennas. This SKU is for rest-of-world countries not given a specific regulatory domain.
<b>Input voltage</b>	IEEE 802.3af or 802.3at PoE, or direct DC power (via optional power supply)
<b>Wi-Fi antenna</b>	Two RP-SMA connectors for external dual band antennas.
<b>Ports</b>	(1) 10/100/1000BASE-T
<b>Mounting</b>	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 HPE Aruba Networking 500 Series Campus Access Points Ordering Guide for details.
<b>Power consumption</b>	POE powered (802.3at): 11.0W / 16.5W. POE powered (802.3af): 11.0W / 13.5W. DC powered: 8.9W / 14.2W. Maximum (worst-case) power consumption (without / with a USB device attached).
<b>Radio coverage</b>	Dual radio, 5GHz and 2.4GHz IEEE 802.11ax 2x2 MIMO. Maximum data rates of 1.2Gbps in the 5GHz band and 574Mbps in the 2.4GHz band (for an aggregate peak data rate of 3.55Gbps).
<b>Warranty</b>	HPE Aruba Networking limited lifetime hardware warranty. See <a href="https://www.arubanetworks.com/support-services/product-warranties/">https://www.arubanetworks.com/support-services/product-warranties/</a>
<b>Product dimensions (imperial)</b>	1.5 x 6.3 x 6.3 in
<b>Weight</b>	1.1 lb

For additional technical information, available models and options, please reference the [QuickSpecs](#)

## 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: [arubanetworks.com/services/](https://arubanetworks.com/services/)



## Support Services from HPE Aruba Networking

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 from HPE Aruba Networking

With deep intellectual capital and purpose-built tools, our team delivers a range of standard and custom professional services designed to accelerate your value from HPE Aruba Networking technology.

**Project based services include:** **Annual subscription services include:**

- Planning, audit, and assessment
- Architecture review and design
- Deployment, migration, and knowledge transfer
- Network optimization
- Intelligent Operations
- Customer Experience Management

Our **Education Services** allow your team to come up to speed quickly.

## HPE Aruba Networking Network as-a-Service (NaaS)

Our NaaS solution, HPE Aruba Networking Managed Connectivity Services, part of the HPE GreenLake services family, simplifies network operations, accelerates equipment handling, and increases the value of your HPE Aruba Networking network. If you need expert guidance and automation-based operations for your team, please explore the NaaS approach from HPE Aruba Networking [here](#).

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Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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