

# HPE Aruba Networking 510 Series Campus Access Points

HPE Aruba Networking AP-514 (JP) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP (Q9H56A)



## What's new

- Wi-Fi 6 AP provides up to 2.69 Gbps maximum combined data rate
- The 510 series supports OFDMA for enhanced multi-user efficiency, and WPA3 and Enhanced Open for greater security
- IoT-ready with Bluetooth 5 and Zigbee support and fast wired connections with 2.5 Gbps Ethernet and 1 Gbps Ethernet ports

## Overview

The HPE Aruba Networking 510 Series Campus Access Points deliver Wi-Fi 6 coverage ideal for office spaces, training and meeting facilities, and hospitals. With 2.69 Gbps maximum combined data rate, multi-gigabit Ethernet for fast wired connectivity, and built-in Internet of Things (IoT) radio, the 510 series delivers reliable, high-performance WiFi CERTIFIED® for medium density campus environments.

The 510 series can be deployed using zero touch provisioning (ZTP) for ease of implementation at remote locations. It is Wi-Fi and supports 802.11ax features: OFDMA for multi-user efficiency, target wake time (TWT) to extend the battery life of connected IoT devices, and WPA3 and Enhanced Open for

- It has client and RF optimization to match clients with the optimal AP and reduce coverage gaps
  - Dynamic segmentation and policy enforcement firewalls (PEF) automatically enforce consistent policies across wired and wireless networks, enhancing user and device security
  - It is offered in optional eco-friendly 10-packs
- greater password and guest security. The 510 series includes a limited lifetime warranty.

## Features

### Wi-Fi 6 Performance Ideal for Campus Deployment

The HPE Aruba Networking 510 Series Campus Access Points deliver a maximum combined data rate of 2.69 Gbps with up to 4 spatial streams (4SS) and 160 MHz channel bandwidth (VHT160).

The 510 series supports Wi-Fi 6 features such as OFDMA, MU-MIMO, and target wait time (TWT) to drive improved efficiency. It handles multiple Wi-Fi 6 capable clients on each channel simultaneously, regardless of device or traffic type.

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

It supports fast wired connections with 2.5 Gbps Ethernet and 1 Gbps Ethernet ports.

### Cloud Management and Ready for IoT

HPE Aruba Networking 510 Series Campus Access Points can be managed with HPE Aruba Networking Central, an AI-powered solution that simplifies IT operations, improves agility, and reduces costs by unifying management of campus, branch, remote, data center, and IoT networks from one dashboard.

The 510 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.

The target wake time (TWT) improves battery life of IoT devices.

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.

### Simple and Secure Access

HPE Aruba Networking 510 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.

It offers stronger encryption and authentication with WPA3, protected credentials/keys storage for guest access with Enhanced Open (OWE), and user and IoT access policy enforcement firewalls.

WPA3 and Enhanced Open (OWE) security increase enterprise-level security by providing stronger guest access protections without increasing complexity.

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

Technical specifications	HPE Aruba Networking AP-514 (JP) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP
<b>Product Number</b>	Q9H56A
<b>Deployment</b>	Indoor
<b>Wi-Fi generation</b>	Wi-Fi 6 (802.11ax)
<b>Wi-Fi radios</b>	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)
<b>Radio configuration options</b>	2.4 GHz, 5 GHz
<b>Max bandwidths and peak data rate per band</b>	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps
<b>Wi-Fi antenna</b>	Four RP-SMA connectors for external dual-band antennas.
<b>Ultra tri-band (UTB) filtering</b>	No
<b>IoT support</b>	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0
<b>Integrated sensor</b>	No
<b>Location services</b>	802.11 FTM support
<b>Cellular support</b>	USB LTE modem (sold separately)
<b>Wired network interface</b>	1 x 2.5GbE, 1 x 1GbE
<b>MACsec support</b>	No
<b>AP operating system support</b>	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.4.0.0 (with some restrictions). For unrestricted operation, use 8.6.0.0 or later.
<b>AP management</b>	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service
<b>Certifications</b>	UL2043 plenum rating Bluetooth SIG Wi-Fi Alliance®: Wi-Fi CERTIFIED® a, b, g, n, ac, ax WPA, WPA2 and WPA3, Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location

<b>Regulatory</b>	<p>FCC/ISED                  CE Marked                  RED Directive 2014/53/EU                  EMC Directive 2014/30/EU                  Low Voltage Directive 2014/35/EU                  UL/IEC/EN 62368-1                  EN 60601-1-1, EN60601-1-2                  Railway Certs (AP-515 only):                  EN 50155:2017-Railway Applications                  EN 50121-1:2017-Railway EMC                  EN 50121-3-2-Railway EMC                  EN 50121-4:2016-Railway Immunity                  IEC 61373 ed2:2008-Railway Shock and Vibration                  For more country-specific regulatory information and approvals, contact your HPE representative.</p>
<b>Warranty</b>	<p>Limited lifetime warranty. See the <a href="#">warranty duration</a>.</p>
<b>Weight</b>	<p>810 g</p>
<b>Product dimensions</b>	<p>46 x 200 x 200 mm</p>
<b>Ports</b>	<p>E0: HPE Smart Rate port (RJ-45, maximum negotiated speed 2.5 Gbps)                  E1: 10/100/1000BASE-T Ethernet network interface (RJ-45)                  USB 2.0 host interface (Type A connector)                  Serial console interface (proprietary, micro-B USB physical jack)                  Kensington security slot</p>

# HPE Aruba Networking Services

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