

HPE Aruba Networking 510 Series Campus Access Points

HPE Aruba Networking AP-514 (US) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP (Q9H68A)



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 (US) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP
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Product Number	Q9H68A
Deployment	Indoor
Wi-Fi generation	Wi-Fi 6 (802.11ax)
Wi-Fi radios	2x2:2 (2.4 GHz), 4x4:4 (5 GHz)
Radio configuration options	2.4 GHz, 5 GHz
Max bandwidths and peak data rate per band	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), and maximum peak data rate 2.69 Gbps
Wi-Fi antenna	Four RP-SMA connectors for external dual-band antennas.
Ultra tri-band (UTB) filtering	No
IoT support	Bluetooth 5 and Zigbee (802.15.4) radio (2.4 GHz), USB 2.0
Integrated sensor	No
Location services	802.11 FTM support
Cellular support	USB LTE modem (sold separately)
Wired network interface	1 x 2.5GbE, 1 x 1GbE
MACsec support	No
AP operating system support	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.
AP management	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service
Certifications	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

Regulatory

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.

Warranty Limited lifetime warranty. See the warranty duration.

Weight 810 g

Product dimensions 46 x 200 x 200 mm

Ports

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

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

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

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:

- Planning, audit, and assessment
- Architecture review and design
- Deployment, migration, and knowledge transfer

Annual subscription services include:

- Network optimization
- Intelligent Operations
- Customer Experience Management

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

HPE GreenLake for Networking

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.

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

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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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