

Aruba AP-515 (RW) Dual Radio 4x4:4 + 2x2:2 802.11ax Internal Antennas Unified Campus AP (Q9H62A)



What's new

- The 510 series access points provide high performance Dual Radio 802.11ax AP with OFDMA and Multi-User MIMO (MU-MIMO).
- Supports all mandatory and several optional 802.11ax features.
- This series features maximum data rates of 4.8Gbps in the 5GHz band and

Overview

With an increasing number of mobile and Internet of Things (IOT) devices reliant on wireless access, networks must accommodate a diverse mixture of device types, applications and services. The Aruba 510 Series Campus Access Points with 802.11ax technology efficiently deliver high-performance access to multiple clients and traffic types simultaneously in environments where density is an issue, increasing data rates for both

575Mbps in the 2.4GHz band (for an aggregate peak data rate of 5.4Gbps).

- Includes Bluetooth Low Energy (BLE) and Zigbee radios for location and IoT use-cases.

individual devices and the overall system.

The 510 Series supports maximum data rates of 4.8 Gbps in the 5 GHz band and 575 Mbps in the 2.4 GHz band, ideal for high-density environments such as schools, retail branches, hotels, and enterprise offices. In addition to 802.11ax standard capabilities, the 510 Series supports unique features like Aruba ClientMatch radio management and additional radios for location services and IOT applications, delivering an unsurpassed user experience in today's all-wireless digital work environment.

Features

Improved Efficiency

Aruba 510 Series Campus Access Points efficiently and simultaneously serve multiple clients, increasing data rates for both individual devices and as an overall system.

Multi-user transmission with downlink and uplink OFDMA increases user data rates and reduces latency, especially for large numbers of devices with short frames or low data-rate requirements, such as voice and IoT devices.

Multi-user capability with downlink multi-user MIMO improves network capacity by allowing multiple devices to transmit simultaneously.

As higher-performance 802.11ax access points drive more power consumption, the Aruba NetInsight GreenAP feature allows the 510 series access points to draw less power when it's not being used, such as evenings when the buildings are empty.

High Performance

Aruba ClientMatch technology in the Aruba 510 Series Campus Access Point will automatically attempt to group 802.11ax capable devices onto available AP radios with equivalent capabilities.

Performance benefits of Orthogonal Frequency Division Multiple Access (OFDMA) are maximized. This means increased network performance and a boost in network capacity.

The 510 Series uses ArubaOS 8 AirMatch (machine learning technology) to automatically optimize the performance of a wireless network by tuning the radio frequencies (RF) of the access points.

The access points run on ArubaOS 8, delivering always-on networking via features like LiveUpgrade, Controller Clustering, and seamless fail-over.

IoT-ready

The Aruba 510 Series Campus Access Points helps make your network ready for the Internet of Things (IoT).

802.11ax technology provides unique benefits for IoT devices ranging from dedicated channels in OFDMA that allows for simultaneous transmission of IoT connections with low latency, to power saving options with Target Wake Time (TWT) to save battery life.

The 510 series supports an integrated Bluetooth Low-Energy (BLE) and Zigbee radio, as well as a USB port for maximum flexibility, providing

secure and reliable connectivity for IOT devices and for implementing location services.

Technical specifications

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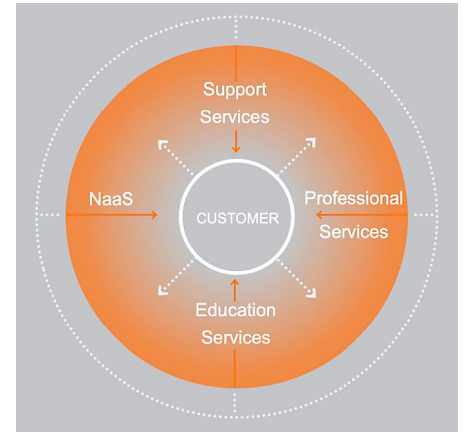
Product Number	Q9H62A
Differentiator	High-performance dual-radio 802.11ax access point with OFDMA and Multi-User MIMO (MU-MIMO). For use in high-density environments requiring efficient, high-performance access where there is a diverse mixture of devices, applications, and services. Four integrated dual-band downtilt omni-directional antennas for 4x4 MIMO. This SKU is for rest-of-world countries not given a specific regulatory domain.
Input voltage	PoE/PoE+ or direct DC power (via optional power supply)
Wi-Fi antenna	Four integrated dual-band downtilt omni-directional antennas for 4x4 MIMO with peak antenna gain of 4.2dBi in 2.4GHz and 7.5dBi in 5GHz.
Ports	(1) HPE SmartRate RJ-45 port (maximum negotiated speed 2.5Gbps), (1) 10/100/1000BASE-T Ethernet
Mounting	Pre-installed mounting bracket, for use with optional mounting kit
Power consumption	POE powered (802.3at): 19W (802.3at PoE), 13.5W (802.3af PoE), 17 W (DC power supply)
Radio coverage	Dual-radio IEEE 802.11ax access point with OFDMA and Multi-User MIMO (MU-MIMO). Supports up to 4.8 Gbps in the 5GHz band (with 4SS/HE160 clients) and up to 575 Mbps in the 2.4GHz band (with 2SS/ HE40 clients).
Warranty	Aruba limited lifetime hardware warranty. See https://www.arubanetworks.com/support-services/product-warranties/
Product dimensions (imperial)	1.8 x 7.9 x 7.9 in
Weight	28.5 oz

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

Aruba Global Services

Aruba Global Services simplifies and accelerates 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 Aruba Global Services has to offer at: arubanetworks.com/services/



Support Services from Aruba

Support services reduce complexity and increase your team's productivity, ensuring you keep pace with technology advances and software releases, and obtain break-fix support required to keep your network running. Access to premium services means you have the right help at the right time.

Professional Services from Aruba

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 Aruba technology.

QuickStart Services include:

- Planning, audit and assessment
- Intelligent Operations
- Architecture review and design

Proactive Engineering Services include:

- Customer Experience Management
- Deployment, migration, and knowledge transfer
- Network optimization

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

Aruba Network as-a-Service (NaaS)

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

Image may differ from the actual product
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