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HPE Aruba Networking AP-515 (EG) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP (Q9H59A)

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 575Mbps in the 2.4GHz band (for an aggregate peak data rate of 5.4Gbps).
- Includes Bluetooth Low Energy (BLE)

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 individual devices and the overall system.

The 510 Series supports maximum data rates of 4.8

and Zigbee radios for location and IoT use-cases.

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 saves 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.

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Technical specifications

HPE Aruba Networking AP-515 (EG) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP

Product Number	Q9H59A
Differentiator	High-performance dual-radio 802.11ax acccess 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 Egypt 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 (metric)	46 x 200 x 200 mm
Weight	810 g

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/

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.

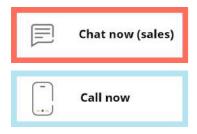**Project based services include:**

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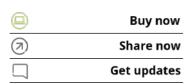- Deployment, migration, and knowledge transfer

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, 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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