

HPE Aruba Networking 510 Series Campus Access Points



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
- 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

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 greater password and guest security. The 510 series includes a limited lifetime warranty.

networks, enhancing user and device security

- It is offered in optional eco-friendly 10-packs

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 510 Series Campus Access Points
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	HPE Aruba Networking 510 Series Campus Access Points models: AP-514: Four (female) RP-SMA connectors for external dual-band antennas AP-515: Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO (2x2 MIMO for 2.4 GHz) MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the AP. The downtilt angle gain is roughly 30°.
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	<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>
Warranty	<p>Limited lifetime warranty. See the warranty duration.</p>
Weight	<p>810 g</p>
Product dimensions (metric)	<p>46 x 200 x 200 mm</p>
Ports	<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>

SKU overview

Q9H54A: HPE Aruba Networking AP-514 (EG) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP
Q9H64A: HPE Aruba Networking AP-514 (EG) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP
Q9H55A: HPE Aruba Networking AP-514 (IL) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP
Q9H65A: HPE Aruba Networking AP-514 (IL) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP
Q9H56A: HPE Aruba Networking AP-514 (JP) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP
Q9H66A: HPE Aruba Networking AP-514 (JP) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP
Q9H57A: HPE Aruba Networking AP-514 (RW) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP
Q9H67A: HPE Aruba Networking AP-514 (RW) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP
Q9H58A: HPE Aruba Networking AP-514 (US) Dual Radio 4x4/2x2 802.11ax External Antennas Unified Campus AP
Q9H68A: HPE Aruba Networking AP-514 (US) TAA Dual Radio 4x4/2x2 802.11ax Ext Antennas Unified Campus AP
Q9H59A: HPE Aruba Networking AP-515 (EG) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP
Q9H69A: HPE Aruba Networking AP-515 (EG) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP
S5D86A: HPE Aruba Networking AP-515 (ID) Dual Radio 4x4/2x2 802.11ax Internal Antennas Campus Access Point
Q9H60A: HPE Aruba Networking AP-515 (IL) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP
Q9H70A: HPE Aruba Networking AP-515 (IL) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP
Q9H61A: HPE Aruba Networking AP-515 (JP) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP
Q9H71A: HPE Aruba Networking AP-515 (JP) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP
Q9H62A: HPE Aruba Networking AP-515 (RW) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP
S3J29A: HPE Aruba Networking AP-515 (RW) Dual Radio 4x4/2x2 Wi-Fi 6 10-pack Campus Access Point
Q9H72A: HPE Aruba Networking AP-515 (RW) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP
Q9H63A: HPE Aruba Networking AP-515 (US) Dual Radio 4x4/2x2 802.11ax Internal Antennas Unified Campus AP
S3J30A: HPE Aruba Networking AP-515 (US) Dual Radio 4x4/2x2 Wi-Fi 6 10-pack Campus Access Point
Q9H73A: HPE Aruba Networking AP-515 (US) TAA Dual Radio 4x4/2x2 802.11ax Internal Ants Unified Campus AP

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.

GreenLake for Networking

Deliver innovative business outcomes by leveraging new ways to consume, deploy and [manage networks](#).

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

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