

HPE Aruba Networking 503 Series Campus Access Points

HPE Aruba Networking AP-503-US Dual Radio 2x2 802.11ax Wi-Fi 6 Campus Access Point (R8M99A)



What's new

- Cost-effective Wi-Fi 6 access points provide up to 1.49 Gbps maximum combined data rate.
- Supports Wi-Fi 6 (802.11ax) features including OFDMA for enhanced multi-user efficiency and WPA and Enhanced Open for greater security.

Overview

HPE Aruba Networking 503 Series Campus Access Points deliver affordable Wi-Fi 6 coverage for indoor environments such as mid-sized offices, schools, and retail spaces where fewer people are on the network at the same time. With 1.49 Gbps maximum combined data rate, the 503 Series delivers cost-effective and reliable Wi-Fi for low to medium density environments.

The 503 Series is Wi-Fi CERTIFIED and supports 802.11ax features: OFDMA for

- Dynamic Segmentation and policy enforcement firewalls automatically enforce consistent policies across wired and wireless networks, enhancing user and device security.
- Flexible management with AI-powered HPE Aruba Networking Central.
- Available as optional eco-friendly 10-packs.

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 503 Series includes a limited lifetime warranty.

Features

Better Performance with Wi-Fi 6

HPE Aruba Networking 503 Series Campus Access Points deliver a maximum speed of 1.49 Gbps with up to 2 spatial streams and 80 MHz channels (HE80).

Wi-Fi CERTIFIED™ with support for Wi-Fi 6 features such as OFDMA, bidirectional MU-MIMO, and target wait time (TWT) to drive improved efficiency. 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 best radio signal.

Flexible Management and Simplified Access

HPE Aruba Networking 503 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.

Quick and easy deployment at branch offices or remote work sites without on-site technical expertise using zero touch provisioning.

Seamless support for [1] Bluetooth 5 and Zigbee wireless protocols using optional IoT expansion radio (purchase separately).

Secure Access

HPE Aruba Networking 503 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.

The target wake time (TWT), part of Wi-Fi 6, establishes a schedule for client communications to save power and reduce airtime contention.

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

The PEF automatically applies policies based on user role, device type, applications, and location and dynamically segment traffic.

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-503-US Dual Radio 2x2 802.11ax Wi-Fi 6 Campus Access Point
Product Number	R8M99A
Differentiator	Available in US only
Wi-Fi antenna	AP-503: Integrated down tilt omni-directional antennas for 2x2 MIMO with peak antenna gain of 1.7 dBi in 2.4 GHz and 4.8 dBi in 5 GHz.
Certifications	Ethernet Alliance (POE, PD device, Class 3) Wi-Fi Alliance (WFA): Wi-Fi CERTIFIED a, b, g, n, ac Wi-Fi CERTIFIED 6 WPA, WPA2 and WPA3- Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, Wi-Fi Agile Multiband
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
Warranty	Limited lifetime warranty. See the warranty duration.
Weight	255g
Product dimensions	3.5 x 14.5 x 14.5 cm
Connectivity, standard	Wi-Fi 6 (IEEE 802.11ax)
Ports	E0: Ethernet wired network port (RJ-45) USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack)
Mounting	Optional mounting kits available, see the ordering guide.
Radio coverage	AP type: Indoor, dual-radio, 2.4 GHz and 5 GHz (dual concurrent) 802.11ax 2x2 MIMO

[1] Bluetooth is a trademark owned by its proprietor and used by Hewlett Packard Enterprise under license. All third-party marks are property of their respective owners.

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.

Image may differ from the actual product.

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