HPE Aruba Networking 503 Series Campus Access Points



What's new

- Cost-effective Wi-Fi 6 access points provide up to 1.49 Gbps maximum combined data rate
- It supports Wi-Fi 6 (802.11ax) features including OFDMA for enhanced multi-user efficiency and WPA and Enhanced Open (OWE) for greater security
- Dynamic segmentation and policy enforcement firewalls (PEFs) automatically enforce consistent policies across wired and wireless networks, enhancing user and device security
- Flexible management with AI-powered HPE Aruba Networking Central

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 a 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 WiFi CERTIFIED® and supports 802.11ax features; OFDMA for multi-user efficiency, target wake time (TWT) to extend the battery life of connected Internet of Things (IoT) devices, and WPA3 and Enhanced Open (OWE) for greater password and guest security. The 503 series includes a limited lifetime warranty.

– Available as optional eco-friendly 10-packs

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).

WiFi CERTIFIED® with support for Wi-Fi 6 features such as OFDMA, MU-MIMO, and target wait time (TWT) to drive improved efficiency. Handles multiple Wi-Fi 6 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 a good 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 (ZTP).

It provides seamless support for Bluetooth 5 and Zigbee wireless protocols using an 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 (OWE), and user and IoT access policy enforcement firewalls (PEFs).

The PEF automatically applies policies based on user role, device type, applications and location and dynamically segments 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 503 Series Campus Access Points
Deployment	Indoor
Wi-Fi generation	Wi-Fi 6 (802.11ax)
Wi-Fi radios	Dual 2x2
Radio configuration options	2.4 GHz and 5 GHz
Max bandwidths and peak data rate per band	20/40 (2.4 GHz), 20/40/80 (5 GHz), maximum peak data rate 1.49 Gbps
Wi-Fi antenna	AP-503: Integrated downtilt omnidirectional antennas for 2x2 MIMO. Built-in antennas for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30°.
Ultra tri-band (UTB) filtering	No
IoT support	USB 2.0 type A
Integrated sensor	No
Cellular support	USB LTE modem (sold separately)
Wired network interface	1 x 1GbE
MACsec support	No
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)
AP operating system support	HPE Aruba Networking Wireless Operating System and HPE Aruba Networking Instant OS 8.11.1.0 and later HPE Aruba Networking Wireless Operating System 10.5.0.0 and later
AP management	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service
Certifications	Ethernet Alliance (PoE, PD device, Class 3) Wi-Fi Alliance®: 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

Technical specifications	HPE Aruba Networking 503 Series Campus Access Points
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 For more country-specific regulatory information and approvals, contact your HPE representative.
Warranty	Limited lifetime warranty. See the warranty duration.

SKU overview

SKU	Description
S5D83A	HPE Aruba Networking AP-503 (ID) Dual Radio 2x2 802.11ax Internal Antennas Campus Access Point
S1E83A	HPE Aruba Networking AP-503 (RW) 10-Pack Dual Radio 2x2:2 Wi-Fi 6 Campus Access Point
S2C07A	HPE Aruba Networking AP-503 (RW1) Dual Radio 2x2 802.11ax Wi-Fi 6 Campus Access Point
S1E84A	HPE Aruba Networking AP-503 (US) 10-Pack Dual Radio 2x2:2 Wi-Fi 6 Campus Access Point
R8M95A	HPE Aruba Networking AP-503-EG Dual Radio 2x2 802.11ax Wi-Fi 6 Campus Access Point
R8M96A	HPE Aruba Networking AP-503-IL Dual Radio 2x2 802.11ax Wi-Fi 6 Campus Access Point
R8M97A	HPE Aruba Networking AP-503-JP Dual Radio 2x2 802.11ax Wi-Fi 6 Campus Access Point
R8M98A	HPE Aruba Networking AP-503-RW Dual Radio 2x2 802.11ax Wi-Fi 6 Campus Access Point
R8M99A	HPE Aruba Networking AP-503-US Dual Radio 2x2 802.11ax Wi-Fi 6 Campus Access Point

Related Options

The following options are available for these series:

SKU	Description
Cables/Cable Kits	
JY728A	HPE Aruba Networking AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable
R6Q99A	HPE Aruba Networking AP-MOD-SERU Micro-USB TTL3.3V to RJ45 RS232 AP Console Adapter Module
Enterprise Networking Products	
R8F34A	HPE Aruba Networking USB LTE Modem for Access Points and Gateways
Mounting Rack/Rail Options	
Q9U25A	HPE Aruba Networking AP-MNT-W4 White Low Profile Basic AP Flat Surface Mount Kit
Power Management Options	
R6P68A	HPE Aruba Networking AP-POE-AFGE 1-Port GbE 802.3af 15.4W Midspan Injector

Related Services

The following services are available for these series:

SKU	Description
Technology Services	
H69W7E	HPE Aruba Networking Foundational Care 1Y 4HR Exch AP-503 10 Pack SVC
H69Q5E	HPE Aruba Networking Foundational Care 1Y 4HR Exch AP-503 SVC
H69Y4E	HPE Aruba Networking Foundational Care 1Y 4HR Exch Vol T1 AP-503 10 Pack SVC
H69S2E	HPE Aruba Networking Foundational Care 1Y 4HR Exch Vol T1 AP-503 SVC
H69Y5E	HPE Aruba Networking Foundational Care 1Y 4HR Exch Vol T2 AP-503 10 Pack SVC
H69S3E	HPE Aruba Networking Foundational Care 1Y 4HR Exch Vol T2 AP-503 SVC
H69W5E	HPE Aruba Networking Foundational Care 1Y NBD Exch AP-503 10 Pack SVC
H69Q3E	HPE Aruba Networking Foundational Care 1Y NBD Exch AP-503 SVC
H69W6E	HPE Aruba Networking Foundational Care 1Y NBD Exch Hardware Only AP-503 10 Pack SVC
H69Q4E	HPE Aruba Networking Foundational Care 1Y NBD Exch Hardware Only AP-503 SVC
H69Y0E	HPE Aruba Networking Foundational Care 1Y NBD Exch Vol T1 AP-503 10 Pack SVC
H69R8E	HPE Aruba Networking Foundational Care 1Y NBD Exch Vol T1 AP-503 SVC
H69Y1E	HPE Aruba Networking Foundational Care 1Y NBD Exch Vol T2 AP-503 10 Pack SVC

H69R9E	HPE Aruba Networking Foundational Care 1Y NBD Exch Vol T2 AP-503 SVC
H69X0E	HPE Aruba Networking Foundational Care 3Y 4HR Exch AP-503 10 Pack SVC
H69Q8E	HPE Aruba Networking Foundational Care 3Y 4HR Exch AP-503 SVC
H69Z4E	HPE Aruba Networking Foundational Care 3Y 4HR Exch Vol T1 AP-503 10 Pack SVC
H69T2E	HPE Aruba Networking Foundational Care 3Y 4HR Exch Vol T1 AP-503 SVC
H69Z5E	HPE Aruba Networking Foundational Care 3Y 4HR Exch Vol T2 AP-503 10 Pack SVC
H69T3E	HPE Aruba Networking Foundational Care 3Y 4HR Exch Vol T2 AP-503 SVC
H69W9E	HPE Aruba Networking Foundational Care 3Y NBD Exch AP-503 10 Pack SVC
H69Q7E	HPE Aruba Networking Foundational Care 3Y NBD Exch AP-503 SVC
H69W8E	HPE Aruba Networking Foundational Care 3Y NBD Exch Hardware Only AP-503 10 Pack SVC
H69Q6E	HPE Aruba Networking Foundational Care 3Y NBD Exch Hardware Only AP-503 SVC
H69Z0E	HPE Aruba Networking Foundational Care 3Y NBD Exch Vol T1 AP-503 10 Pack SVC
H69S8E	HPE Aruba Networking Foundational Care 3Y NBD Exch Vol T1 AP-503 SVC
H69Z1E	HPE Aruba Networking Foundational Care 3Y NBD Exch Vol T2 AP-503 10 Pack SVC
H69S9E	HPE Aruba Networking Foundational Care 3Y NBD Exch Vol T2 AP-503 SVC
H69X6E	HPE Aruba Networking Foundational Care 5Y 4HR Exch AP-503 10 Pack SVC
H69R4E	HPE Aruba Networking Foundational Care 5Y 4HR Exch AP-503 SVC
H7OB4E	HPE Aruba Networking Foundational Care 5Y 4HR Exch Vol T1 AP-503 10 Pack SVC
H69V2E	HPE Aruba Networking Foundational Care 5Y 4HR Exch Vol T1 AP-503 SVC
H7OB5E	HPE Aruba Networking Foundational Care 5Y 4HR Exch Vol T2 AP-503 10 Pack SVC
H69V3E	HPE Aruba Networking Foundational Care 5Y 4HR Exch Vol T2 AP-503 SVC
H69X5E	HPE Aruba Networking Foundational Care 5Y NBD Exch AP-503 10 Pack SVC
H69R3E	HPE Aruba Networking Foundational Care 5Y NBD Exch AP-503 SVC
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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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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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