

HPE Aruba Networking 500R Series Remote Access Points

HPE Aruba Networking AP-503R (US) Dual Radio 2x2 802.11ax Wi-Fi 6 Remote Access Point (R8N05A)



What's new

- Cost-effective Wi-Fi 6 remote access points that provide up to 1.49 Gbps maximum combined data rate in a desktop form factor ideal for teleworker or small branch environments.
- The AP provides support for OFDMA for enhanced multi-user efficiency, and WPA3 and Enhanced Open for greater security.
- Wired and wireless connections that include encryption and use authentication

Overview

HPE Aruba Networking 500R Series Remote Access Points enable IT teams to deliver cost-effective Wi-Fi 6 coverage in a compact desktop form factor that is ideal for small branches and remote work. With 1.49 Gbps maximum combined speed, Zero Touch Provisioning, wired ports, and optional USB LTE modem, the 500R series makes it easier to extend the workplace experience anywhere that has an internet or cellular connection.

The 500R series is Wi-Fi CERTIFIED™ and includes support for all 802.11ax features: OFDMA for multi-user efficiency, target wake time (TWT) to extend the battery life of connected IoT devices, and WPA3 and

to protect the remote network.

- Optional USB LTE modem that supports high speed LTE Cat 12 connectivity for cellular backhaul.
- Zero Touch Provisioning that provides ease of implementation in branch offices and remote sites, without on-site technical expertise.
- The AP is managed through cloud-native HPE Aruba Networking Central to extend the WAN to home offices, small offices, and even temporary locations.

Enhanced Open for greater password and guest security. The 500R series includes a limited lifetime warranty.

Features

Wi-Fi 6 Performance for Small Branches and Remote Work

HPE Aruba Networking 500R Series Remote Access Points deliver a maximum combined data rate of 1.49 Gbps with two spatial streams to meet the needs of low and medium density environments.

The AP provides 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.

It includes three 1 Gbps Ethernet ports (1 uplink, 2 downlink) for wired connectivity.

It supports optional USB LTE modem for high-speed LTE Cat 12 connectivity.

Flexibility is powered through DC or a standard USB-C source and ships with 12V adapter and localized plug.

Simple and Secure Access

The HPE Aruba Networking 500R Series Remote 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, and user and IoT access policy enforcement firewalls (PEF).

Trusted Platform Module (TPM) secures credentials, keys, and boot code.

Cloud Managed and Ready for IoT

HPE Aruba Networking 500R Series Remote Access Points are deployed and managed using cloud-native HPE Aruba Networking Central to extend the WAN to home offices, small offices, and even temporary locations with built-in SD-WAN and cloud security.

Remote work microbranch capabilities include SD-WAN route/tunnel orchestration, policy-based routing, multiple active tunnels, WAN health visibility, and cloud security orchestration.

Connect IoT devices with an optional USB dongle for [1] Bluetooth 5 and 802.15.4/Zigbee support.

Target Wake Time (TWT) establishes a schedule for client communications to save power and reduce airtime contention.



Technical specifications

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

Product Number	R8N05A
Differentiator	Available in US only
Certifications	<p>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 Passpoint (Release 2)</p>
Input voltage	12V/18W DC
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 60950 IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2</p>
Wi-Fi antenna	AP-503R: Integrated omni-directional antennas for 2x2 MIMO with peak antenna gain of 3.9dBi in 2.4GHz and 5.1dBi in 5GHz.
Ports	<p>E0: Ethernet wired network port (RJ-45); E1-E2: Ethernet wired network ports (RJ-45) USB-C: 5Vdc (nominal, +/- 5%); USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot.</p>
Mounting	<p>Optional mounting kits: AP-OUT-MNT-V1A: Outdoor Pole/Wall Long Mount Kit AP-270-MNT-V2: Outdoor Pole/Wall Short Mount Kit AP-270-MNT-H1: Outdoor AP Hanging or Tilt Install Mount Kit AP-270-MNT-H2: Outdoor Flush Wall or Ceiling Mount AP-270-MNT-H3: Outdoor AP Hanging or Dual-Tilt Install Mount Kit</p>
Power consumption	<p>Maximum (worst-case) power consumption: 15.4W Maximum (worst-case) power consumption in idle mode: 4.0W</p>
Radio coverage	<p>AP type: Indoor, dual-radio, 2.4GHz and 5GHz (dual concurrent) 802.11ax 2x2 MIMO 2.4GHz radio: Two spatial stream Single User (SU) MIMO for up to 574Mbps wireless data rate with 2SS HE40 802.11ax client devices (287Mbps for HE20) 5GHz radio: Two spatial stream Single User (SU) MIMO for up to 1.2Gbps wireless data rate with 2SS HE80 802.11ax client devices</p>
Warranty	Limited lifetime warranty

[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.



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

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: Annual subscription services include:

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