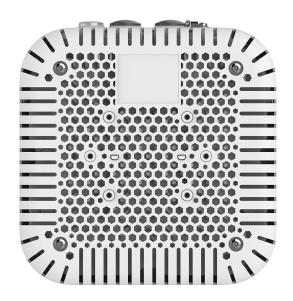aruba
a Hewlett Packard
Enterprise company

HPE Aruba Networking AP-518 (RW) Dual Radio 4x4/2x2 Wi-Fi 6 6xRPSMA Connectors Hardened AP (R4H02A)

What's new

- Wi-Fi 6 for ruggedized environments with high and low temperature extremes.
- Provides policy enforcement for wireless traffic through Dynamic Segmentation.
- IoT-ready with a built-in Bluetooth 5 and 802.15.4 radio that supports

Overview

The HPE Aruba Networking 518 Series Hardened Access Points provide high-performance wireless connectivity for harsh weather environments such as warehouses, stadiums, industrial freezers, and enclosures. Supporting the latest Wi-Fi 6 standard, the HPE Aruba Networking 518 Series can achieve a maximum aggregate data rate of 3 Gbps (HE80/HE40) to deliver high speed and reliability.

Zigbee®.
- Supports up to 512 associated clients per radio.
- Can be deployed as an Aruba Central-managed enterprise access point.

The HPE Aruba Networking 518 Series Hardened APs are also designed to provide improved user experiences by integrating key Wi-Fi optimization technologies for increased Wi-Fi efficiency and optimized client airtime.

Features

Incredible Efficiency with Wi-Fi 6

The HPE Aruba Networking 518 Series Hardened Access Points support the Wi-Fi 6 standard, including features such as orthogonal frequency-division multiple access (OFDMA), bi-directional Multi-User MIMO (MU-MIMO), and Target Wait Time (TWT).

Patented RF optimization technologies like ClientMatch have also been enhanced with Wi-Fi 6 awareness to group Wi-Fi 6-capable client devices together for optimized network utilization.

The HPE Aruba Networking 518 Series also supports Air Slice, a unique capability that enhances OFDMA with SLA-grade application assurance from the access point to the client device.

Infrastructure Designed with Flexibility in Mind

The HPE Aruba Networking 518 Series Hardened Access Points are purpose-built to deliver unified connectivity and support flexible deployment options.

This product can be managed by Aruba Central, as well as with existing on-premises and local management options.

It is purpose-built to survive in the harshest outdoor environments, withstanding exposure to extreme high and low temperatures, persistent moisture, and are sealed to keep out airbourne contaminants.

IoT Platform Capabilities

The HPE Aruba Networking 518 Series Hardened Access Points have the ability to support up to 512 associated clients per Wi-Fi radio – ideal for organizations deploying Wi-Fi connected IoT devices.

Supports Bluetooth 5 and Zigbee® wireless protocols through an integrated IoT radio, and third-party expansion with an integrated USB port.

Features improved client visibility with integrated device profiling, and the option for advanced insights when integrated with HPE Aruba Networking ClearPass Policy Manager or HPE Aruba Networking ClearPass Device Insight.

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Technical specifications

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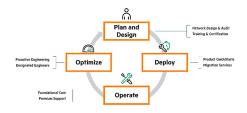|	
Product Number	R4H02A
Differentiator	High-performance connectivity for harsh weather or temperature environments. Deployed as IoT platforms, they support multiple wireless mediums such as Bluetooth, Zigbee®, and custom applications. With innovative features such as Air Slice and Wi-Fi 6-aware ClientMatch, enterprises can provide optimized user experiences. This SKU is for rest-of-world countries not given a specific regulatory domain.
Certifications	CB Scheme Safety, cTUVus UL2043 plenum rating Wi-Fi Alliance certified 802.11a/b/g/n/ Wi-Fi CERTIFIED™ 6 (802.11ax) Wi-Fi CERTIFIED™ ac (with Wave 2 features) Passpoint® (Release 2) with ArubaOS and Instant
Input voltage	IEEE 802.3at PoE, or direct DC power (via optional power supply)
Regulatory	FCC/ISED CE Marked RED Directive 2014/53/EU EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU UL/IEC/EN 60950 EN 60601-1-1, EN60601-1-2
Wi-Fi antenna	Four RP-SMA connectors for external antenna, 5 GHz operation Two RP-SMA connectors for external antenna, 2.4 GHz operation
Ports	(1) HPE Smart Rate RJ-45 port, auto-sensing link speed (100/1000/2500BASE-T) and MDI/MDX. 2.5 Gbps speed complies with NBASE-T and 802.3bz specifications (1) 10/100/1000BASE-T (RJ-45) port, auto-sensing link speed and MDI/MDX
Mounting	Directly compatible with the indoor AP-MNT-A/B/C/D/E mounting kits supported on the AP-5xx indoor APs (as well as MP10 packs). The 270 Series outdoor AP mounts (AP-270-MNT-V1, AP-270-MNT-V2, AP-270-MNT-H1, AP-270-MNT-H2) are compatible when used with the AP-270-MNT-ADP adapter.
Power consumption	25.6W, max (AP only)
Radio coverage	Wi-Fi 6 dual-radio, 5 GHz 4x4 MIMO and 2.4 GHz 2x2 MIMO Software-configurable dual radio supports 5 GHz (Radio 0) and 2.4 GHz (Radio 1) Maximum data rates of 4.8 Gbps in the 5GHz band and 575 Mbps in the 2.4GHz band
Warranty	Limited lifetime hardware warranty. See https://www.arubanetworks.com/support-services/product-warranties/
Product dimensions (imperial)	2.5 x 8.5 x 8.5 in (H x W x D)
Weight	3.3 lbs

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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: arubanetworks.com/services/

Support Services from HPE Aruba Networking

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 from HPE Aruba Networking

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 Aruba Networking Network as-a-Service (NaaS)

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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