

HPE Aruba Networking 518 Series Hardened Access Points



What's new

- High performance Wi-Fi 6 (802.11ax) connectivity for harsh, weather-protected environments with maximum aggregate data rate of 3 Gbps (HE80/HE40)
- Purpose built to survive in harsh outdoor environments and extreme temperatures (-40°C to +65°C)
- Ready for Internet of Things (IoT) with a built-in Bluetooth 5 and 802.15.4 radio that supports Zigbee
- Connectorized APs that support external antennas and provide

Overview

The HPE Aruba Networking 518 Series Hardened Access Points deliver high performance Wi-Fi 6 connectivity in harsh, weather-protected environments such as warehouses, industrial freezers or enclosures in extreme environments such as stadiums. With Wi-Fi 6 capabilities, Bluetooth 5 and 802.15.4/Zigbee radios, and maximum aggregate data rate of 3 Gbps, the 518 series delivers the speed and reliability needed to bring Wi-Fi 6 to challenging environments.

These ruggedized Wi-Fi 6 access points (APs) are ready to survive high wind, extreme temperatures, and moisture and can be quickly deployed using zero touch provisioning (ZTP). HPE Aruba Networking Central provides a single pane of glass for overseeing wired and wireless LANs, WANs, and VPNs. Alpowered analytics, endtoend orchestration and automation, and advanced

flexible deployment with support for both indoor and outdoor mounting brackets

security features are built natively into the solution. The 518 series includes a limited lifetime warranty.

- Client and RF optimization to match clients with the best available AP and reduce coverage gaps
- Dynamic segmentation and policy enforcement firewalls (PEFs) automatically enforces consistent policies across networks, keeping users and devices secure

Features

Ruggedized Wi-Fi 6

The HPE Aruba Networking 518 Series Hardened Access Points deliver maximum aggregate data rate of 2.69 Gbps (HE80/HE20) and can endure extreme temperatures, persistent moisture, precipitation, airborne contaminants, dust, salt sprays, and maximum 165 mph wind speeds.

Weatherproof and temperature hardened, this series can handle temperatures ranging from -40°C to +65°C, including full solar loading. All electrical interfaces include industrial strength surge protection.

The APs provide fast wired connections with 2.5 Gbps Ethernet and 1 Gbps Ethernet ports.

It supports features such as orthogonal frequency-division multiple access (OFDMA), downlink MIMO (multiuser-MIMO), and target wait time (TWT).

Enhanced wireless experience with HPE Aruba Networking ClientMatch technology removes sticky client issues by steering a client to the AP where it receives one of the best radio signals.

IoT Ready

The HPE Aruba Networking 518 Series Hardened Access Points can serve as IoT platforms that bolster network security and provide coverage for a range of IoT devices without the need for network overlays.

The 518 series supports Bluetooth 5 and Zigbee wireless protocols through an integrated IoT radio.

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.

Enhanced Security

The HPE Aruba Networking 518 Series Hardened 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 AP 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).

It simplifies policy enforcement by using the PEF to encapsulate all traffic from the AP to the gateway (or mobility controller) for end-to-end encryption and inspection.

For enhanced device assurance, the APs include an installed trusted platform module (TPM) for protected storage of credentials, keys, and boot code.

Technical specifications	HPE Aruba Networking 518 Series Hardened Access Points
Deployment	Hardened Outdoor Ruggedized Industrial
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), peak data rate 2.69 Gbps (maximum data rate 5.38 Gbps)
Wi-Fi antenna	5 GHz: Four RP-SMA connectors for external antenna operation 2.4 GHz: Two RP-SMA connectors for external antenna operation
Ultra tri-band (UTB) filtering	No
IoT support	IEEE 802.15.4/Zigbee or Bluetooth 5
Integrated sensor	No
Location services	802.11 FTM support
Cellular support	No
Wired network interface	1 x 2.5GbE, 1 x 1GbE
MACsec support	No
AP operating system support	HPE Aruba Networking Wireless Operating System 8 and HPE Aruba Networking Instant OS 8.7.0.0 HPE Aruba Networking Wireless Operating System 10
AP management	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service
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) Wi-Fi CERTIFIED Location

Regulatory FCC/ISED
CE Marked
RED Directive 2014/53/EU
EMC Directive 2014/30/EU
Low Voltage Directive 2014/35/EU
IEC/EN/UL 62368-1
EN 60601-1-1, EN60601-1-2
For more country-specific regulatory information and approvals, contact your HPE representative.

Warranty Limited lifetime warranty. See the [warranty duration](#).

Weight 1.5 kg

Product dimensions (metric) 75 x 220 x 220 mm (H x W x D)

Ports EO: HPE Smart Rate port (RJ-45)
E1: 100/1000BASE-T (RJ-45)
USB-C console interface

SKU overview

- R4G99A:** HPE Aruba Networking AP-518 (EG) Dual Radio 4x4/2x2 Wi-Fi 6 6xRPSMA Connectors Hardened AP
- R4H04A:** HPE Aruba Networking AP-518 (EGF1) Dual Radio 4x4/2x2 Wi-Fi 6 6xRPSMA Connectors Hardened TAA AP
- R4H00A:** HPE Aruba Networking AP-518 (IL) Dual Radio 4x4/2x2 Wi-Fi 6 6xRPSMA Connectors Hardened AP
- R4H05A:** HPE Aruba Networking AP-518 (ILF1) Dual Radio 4x4/2x2 Wi-Fi 6 6xRPSMA Connectors Hardened TAA AP
- R4H01A:** HPE Aruba Networking AP-518 (JP) Dual Radio 4x4/2x2 Wi-Fi 6 6xRPSMA Connectors Hardened AP
- R4H06A:** HPE Aruba Networking AP-518 (JPF1) Dual Radio 4x4/2x2 Wi-Fi 6 6xRPSMA Connectors Hardened TAA AP
- R4H02A:** HPE Aruba Networking AP-518 (RW) Dual Radio 4x4/2x2 Wi-Fi 6 6xRPSMA Connectors Hardened AP
- R4H07A:** HPE Aruba Networking AP-518 (RWF1) Dual Radio 4x4/2x2 Wi-Fi 6 6xRPSMA Connectors Hardened TAA AP
- R4H03A:** HPE Aruba Networking AP-518 (US) Dual Radio 4x4/2x2 Wi-Fi 6 6xRPSMA Connectors Hardened AP
- R4H08A:** HPE Aruba Networking AP-518 (USF1) Dual Radio 4x4/2x2 Wi-Fi 6 6xRPSMA Connectors Hardened TAA 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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