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).

- Internet of Things (IoT)-ready with a built-in [1] Bluetooth 5 and 802.15.4 radio that supports Zigbee.

- Connectorized APs that support external antennas and provide flexible deployment with support for both indoor and outdoor

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. HPE Aruba Networking Central provides a single pane of glass for overseeing wired and wireless LANs, WANs, and VPNs. AIpowered analytics, endtoend orchestration and automation, and advanced security features are built natively into the solution. The 518

mounting brackets.

- Client and RF optimization to match clients with the best available access point and reduce coverage gaps.

- Dynamic Segmentation and policy enforcement firewalls (PEF) automatically enforces consistent policies across networks, keeping users and devices secure.

series includes a limited lifetime warranty.

Features

Ruggedized Wi-Fi 6

The HPE Aruba Networking 518 Series Hardened Access Points deliver maximum aggregate data rate of 3 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 (Multi-user-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 Access Point 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 AP 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, and user and IoT access policy enforcement firewalls (PEF).

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

For enhanced device assurance, the access points 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
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 HPE Aruba Networking Operating System and InstantOS 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
Wi-Fi antenna	5 GHz: Four RP-SMA connectors for external antenna operation 2.4 GHz: Two RP-SMA connectors for external antenna operation
Ports	E0: HPE Smart Rate port (RJ-45) E1: 100/1000BASE-T (RJ-45) USB-C console interface
Mounting	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
Power consumption	Maximum (worst-case) power consumption PoE powered (dual ports): 32.0W PoE powered (single port, full function): 26.1W Maximum (worst-case) power consumption in idle mode: 14.0W (single PoE) or 16.0W (dual PoE) Maximum (worst-case) power consumption in deep-sleep mode: 2.9W (single PoE) or 3.9W (dual PoE) The AP supports Power over Ethernet (PoE) on port E0 and/or E1
Radio coverage	AP type: Indoor, dual radio, 5GHz 802.11ax 4x4 MIMO and 2.4GHz 802.11ax 2x2 MIMO Software-configurable dual radio supports 5 GHz (Radio 0) and 2.4 GHz (Radio 1)
Warranty	Limited lifetime warranty
Product dimensions (metric)	75 x 220 x 220 mm (H x W x D)
Weight	1.5 kg

[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: 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:
- 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, 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.

**Make the right purchase decision.
Contact our presales specialists.**

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