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 flexible deployment with support for

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. AIpowered analytics, endtoend orchestration and automation, and advanced security features are built natively into the solution. The 518 series includes a

both indoor and outdoor mounting brackets

- 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

limited lifetime warranty.

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
Ports	E0: HPE Smart Rate port (RJ-45) E1: 100/1000BASE-T (RJ-45) USB-C console interface
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

Technical specifications	HPE Aruba Networking 518 Series Hardened Access Points
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.

SKU overview

SKU	Description
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

Related Options

The following options are available for these series:

SKU	Description
Enterprise Networking Products	
Q8N49A	HPE Aruba Networking AP-ANT-22 Dual Band 2/4dBi Omni RPSMA Low Profile 2-pk Omni Antenna
Q8N47A	HPE Aruba Networking Otdr AP Covers/Glands 1pk M25/5pk M20 Cover and Gland/2pk M16 Cover Ground Kit
Q8N48A	HPE Aruba Networking Outdoor AP Metric to Standard M20 to 1/2 inch NPT 5-pk Thread Adapter
Mounting Rack/Rail Options	
R6W11A	HPE Aruba Networking AP-270-MNT-H3 Outdoor AP Hanging Dual-Tilt Pole/Wall Mounting Bracket
R3J15A	HPE Aruba Networking AP-MNT-A Campus AP Type A Suspended Ceiling Rail Flat 9/16 Mount Bracket Kit
R3J16A	HPE Aruba Networking AP-MNT-B Campus AP Type B Suspended Ceiling Rail Flat 15/16 Mount Bracket Kit
R3J17A	HPE Aruba Networking AP-MNT-C Campus AP Type C Suspended Ceiling Rail 9/16 Profile Mnt Bracket Kit
R3J18A	HPE Aruba Networking AP-MNT-D Campus AP Type D Solid Surface Mount Bracket Kit
R3J19A	HPE Aruba Networking AP-MNT-E Campus AP Type E Wall-Box Mount Bracket Kit
JZ370A	HPE Aruba Networking AP-MNT-MP10-A Campus AP 10-Pack 9/16 Flat Ceiling Rail Mount Bracket Kit
Q9G69A	HPE Aruba Networking AP-MNT-MP10-B Campus AP 10-Pack 15/16 Flat Ceiling Rail Mount Bracket Kit
Q9G70A	HPE Aruba Networking AP-MNT-MP10-C Campus AP 10-Pack Profile 9/16 Ceiling Rail Mount Bracket Kit
Q9G71A	HPE Aruba Networking AP-MNT-MP10-D Campus AP 10-Pack Solid Surface Mount Bracket Kit
R1C72A	HPE Aruba Networking AP-MNT-MP10-E Campus AP 10-Pack Wall-box Mount Bracket Kit
Power Management Options	
R6P67A	HPE Aruba Networking AP-POE-ATSR 1-Port Smart Rate 802.3at 30W Midspan Injector
R1C73A	HPE Aruba Networking AP-POE-BTSR 1-Port Smart Rate 802.3bt 60W Midspan Injector
JW113A	HPE Aruba Networking PC-AC-ARG 250V/10A 1.8m C13 to IRAM 2073 (AR) AC Power Cord
JW114A	HPE Aruba Networking PC-AC-AUS 250V/10A 1.8m C13 to AS3112 (AU) AC Power Cord
JW115A	HPE Aruba Networking PC-AC-BR 250V/10A 1.8m C13 to NBR 14136 (BR) AC Power Cord
JW116A	HPE Aruba Networking PC-AC-CHN 250V/10A 1.8m C13 to GB2099 (CH) AC Power Cord
JW117A	HPE Aruba Networking PC-AC-DEN 250V/10A 1.8m C13 to AFSNIT 107-2-D1 (DK) AC Power Cord
JW118A	HPE Aruba Networking PC-AC-EC 250V/10A 1.8m C13 to CEE7/7 (EU) AC Power Cord
JW120A	HPE Aruba Networking PC-AC-IL 250V/10A 1.8m C13 to SI32 (IL) AC Power Cord
JW121A	HPE Aruba Networking PC-AC-IT 250V/10A 1.8m C13 to CEI 23-50 (IT) AC Power Cord
JW122A	HPE Aruba Networking PC-AC-JPN 125V/12A 1.8m C13 to JISC 8303 (JP) AC Power Cord

JW123A	HPE Aruba Networking PC-AC-KOR 250V/7A 1.8m C13 to KSC 8305 (KR) AC Power Cord
JW124A	HPE Aruba Networking PC-AC-NA 125V/10A 1.8m C13 to NEMA 5-15P (NA) AC Power Cord
JW125A	HPE Aruba Networking PC-AC-SWI 220V/10A 1.8m C13 to SEV 1011 (SW) AC Power Cord
JW126A	HPE Aruba Networking PC-AC-TW 125V/7A 1.8m C13 to CNS 10917 (TW) AC Power Cord
JW127A	HPE Aruba Networking PC-AC-UK 250V/10A 1.8m C13 to BS1363 (UK) AC Power Cord
JW128A	HPE Aruba Networking PC-AC-ZA 250V/10A 1.8m C13 to SANS 164-1 (ZA) AC Power Cord

Related Services

The following services are available for these series:

SKU	Description
Technology Services	
HM0M1E	HPE Networking Essential Care 1 year Next Day Volume T1 AP-518 Service
HM0S0E	HPE Networking Essential Care 1 year Same Day AP-518TAA Service
HM0M6E	HPE Networking Essential Care 1 year Same Day Volume T2 AP-518 Service
HM0T8E	HPE Networking Essential Care 1 year Same Day Volume T2 AP-518TAA Service
HM0L0E	HPE Networking Essential Care 3 years Next Day AP-518 Service
HM0S2E	HPE Networking Essential Care 3 years Next Day AP-518TAA Service
HM0N1E	HPE Networking Essential Care 3 years Next Day Volume T1 AP-518 Service
HM0N2E	HPE Networking Essential Care 3 years Next Day Volume T2 AP-518 Service
HM0L1E	HPE Networking Essential Care 3 years Same Day AP-518 Service
HM0N5E	HPE Networking Essential Care 3 years Same Day Volume T1 AP-518 Service
HM0N6E	HPE Networking Essential Care 3 years Same Day Volume T2 AP-518 Service
HM0U8E	HPE Networking Essential Care 3 years Same Day Volume T2 AP-518TAA Service
HM0S8E	HPE Networking Essential Care 5 years Next Day AP-518TAA Service
HM0S9E	HPE Networking Essential Care 5 years Same Day AP-518TAA Service
HM0K7E	HPE Networking Services-Essential Care 1 Year Next Day HW Support AP-518
HM0R9E	HPE Networking Services-Essential Care 1 Year Next Day HW Support AP-518TAA
HM0K6E	HPE Networking Services-Essential Care 1 Year Next Day Support AP-518
HM0R8E	HPE Networking Services-Essential Care 1 Year Next Day Support AP-518TAA
HM0T3E	HPE Networking Services-Essential Care 1 Year Next Day Volume T1 Support AP-518TAA
HM0M2E	HPE Networking Services-Essential Care 1 Year Next Day Volume T2 Support AP-518
HM0T4E	HPE Networking Services-Essential Care 1 Year Next Day Volume T2 Support AP-518TAA
HM0K8E	HPE Networking Services-Essential Care 1 Year Same Day Support AP-518
HM0M5E	HPE Networking Services-Essential Care 1 Year Same Day Volume T1 Support AP-518

HM0T7E	HPE Networking Services-Essential Care 1 Year Same Day Volume T1 Support AP-518TAA
HM0K9E	HPE Networking Services-Essential Care 3 Year Next Day HW Support AP-518
HM0S1E	HPE Networking Services-Essential Care 3 Year Next Day HW Support AP-518TAA
HM0U3E	HPE Networking Services-Essential Care 3 Year Next Day Volume T1 Support AP-518TAA
HM0U4E	HPE Networking Services-Essential Care 3 Year Next Day Volume T2 Support AP-518TAA
HM0S3E	HPE Networking Services-Essential Care 3 Year Same Day Support AP-518TAA
HM0U7E	HPE Networking Services-Essential Care 3 Year Same Day Volume T1 Support AP-518TAA
HM0L5E	HPE Networking Services-Essential Care 5 Year Next Day HW Support AP-518
HM0S7E	HPE Networking Services-Essential Care 5 Year Next Day HW Support AP-518TAA
HM0L6E	HPE Networking Services-Essential Care 5 Year Next Day Support AP-518
HM0Q1E	HPE Networking Services-Essential Care 5 Year Next Day Volume T1 Support AP-518
HS5S5E	HPE Networking Services-Essential Care 5 Year Next Day Volume T1 Support AP-518TAA
HM0Q2E	HPE Networking Services-Essential Care 5 Year Next Day Volume T2 Support AP-518
HS5S6E	HPE Networking Services-Essential Care 5 Year Next Day Volume T2 Support AP-518TAA
HM0L7E	HPE Networking Services-Essential Care 5 Year Same Day Support AP-518
HM0Q5E	HPE Networking Services-Essential Care 5 Year Same Day Volume T1 Support AP-518
HS5S9E	HPE Networking Services-Essential Care 5 Year Same Day Volume T1 Support AP-518TAA
HM0Q6E	HPE Networking Services-Essential Care 5 Year Same Day Volume T2 Support AP-518
HS5T0E	HPE Networking Services-Essential Care 5 Year Same Day Volume T2 Support AP-518TAA

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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PSN1012684102DEEN, November, 2026.

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