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HPE Aruba Networking 760 Series Hardened Access Points QuickSpecs

Compact and versatile high-performance Wi-Fi 7 connectivity for indoor industrial, outdoor, and hazardous locations

The HPE Aruba Networking 760 Series Hardened Access Points bring high performance Wi-Fi 7 to outdoor and environmentally challenging locations such as industrial sites, warehouses, and large public venues. Leveraging the latest Wi-Fi 7 standard, these small form factor access points enhance security across both wired and wireless networks, support IoT devices, and provide accurate location-aware capabilities. HPE Aruba Networking Central provides a single pane of glass for overseeing every aspect of wired and wireless LANs, WANs, and SD-WAN, and helps drive efficient operations with AI-automation and machine learning (ML) insights for improved wireless connectivity

Overview

With integrated high-power Bluetooth and Zigbee radios, fast wired connectivity, and a limited lifetime warranty, the HPE Aruba Networking 760 Series Hardened Access Points provides high performance outdoor connectivity you can depend on, delivering up to 5.8 Gbps maximum aggregate data rates using 6 GHz (4x4).

For more extreme environments, the HPE Aruba Networking 760 Series Hardened Access Points includes models that are hazardous location (HazLoc) compliant, making them ideal for environments such as oil rigs, industrial manufacturing, and transportation sites.



HPE Aruba Networking 760 Series Hardened Access Points

Key Features

- Wi-Fi 7 (802.11be) brings multi-link operation (MLO) for channel aggregation, 4K QAM for higher throughput and lower latency, and unlocks the 6 GHz band to more than double the available capacity.
- Dual-radio, tri-band capable 2x2 MIMO radios provide coverage across two of the 2.4 GHz, 5 GHz, and 6 GHz bands to deliver up to 4.32 Gbps maximum dual-radio 5 GHz plus 6 GHz (dual 2x2) aggregate data rate or in single-band 5 GHz or 6 GHz, delivering up to 5.76 Gbps when in 4x4 6 GHz mode
- Flexible dynamic antenna supporting either omni-directional coverage orientation or is software provisionable for Directional (approximately 90° x 90°) in the AP-763 and AP-765.
- Extended temperature range support from –40°C to +65°C (with solar cover)
- High speed Smart Rate port, configurable to 1, 2.5, or 5 Gbps (or 100Mbps)
- IoT-ready platform with two integrated Bluetooth and 802.15.4/ Zigbee radios and one USB-C port
- Built in GNSS receiver, barometric pressure sensor, and intelligent software enable APs to self-locate and act as reference points for accurate indoor location measurements and operate as Standard Power devices.
- MACsec support extends wired Ethernet protection to the access point.
- AI-powered dynamic power save mode helps reduce energy use.

Standard Features

AI-powered Wi-Fi 7

Managing Wi-Fi 7 access points is easier with HPE Aruba Networking Central that provides intelligent automation, AI insights, and unified infrastructure management. The 760 series is supported by HPE Aruba Networking Wireless Operating System (AOS 10).

More Capacity and Wider Channels

The HPE Aruba Networking 760 Series Hardened Access Points are designed to take advantage of the 6 GHz band via flexible dual-radio tri-band capable radios, which translates into more flexible platforms to adapt to changing regulatory conditions and landscapes over time, delivering up to 5.76 Gbps maximum in 6 GHz 4x4, or up to 4.32 Gbps in Dual 2x2 with both 5 GHz and 6 GHz. .

Band	Channel Bandwidth	Peak Data Rate
6 GHz (single 4x4)	160 MHz	5.76 Gbps
6 GHz (2x2)	160 MHz	2.88 Gbps
5 GHz (single 4x4)	80 MHz	2.88 Gbps
5 GHz (2x2)	80 MHz	1.44 Gbps
2.4GHz	40 MHz	688 Mbps
	20 MHz	344 Mbps
Total using 6 GHz (4x4) with 160 MHz		**5.76 Gbps**
Total using 6 GHz + 5 GHz (2x2) with 160/80 MHz		**4.32 Gbps**
Total using 5 GHz + 2.4 GHz (2x2) with 80/40 MHz		**2.13 Gbps**

Flexible Dual-2x2 or Single-4x4 Radio Modes

The HPE Aruba Networking 760 Series Hardened Access Points supports both dual-radio, tri-band capable operation with dual 2x2 MIMO support or can operate in single-radio 4x4 MIMO mode in either 5 GHz or 6 GHz (AP-764 does not support 4x4 MIMO mode). In 4x4 mode, the supports 4-spatial stream MU-MIMO with two 2SS client devices (or up to four 1SS devices) and adds MIMO redundancy when using 2SS client devices to increase likelihood of 2SS rates versus slower 1SS data rate.

Dynamic Antennas

The AP-763, AP-765, and AP-765EX support integrated antennas that support both omni-directional operation, as well as directional (90°x90°) operation, with the same AP via a simple software provisioning change.

Wi-Fi 7 Standard

The new Wi-Fi 7 standard (802.11be) extends the capabilities of Wi-Fi 6E, including the use of the 6 GHz band. New capabilities include multi-link operation (MLO) for channel aggregation across different bands and failover, and 4096 QAM (4K QAM) for higher peak data rates.

Advantages of 6 GHz

Wi-Fi 7 takes advantage of up to 1200 MHz in the 6 GHz band for higher throughput and improved application performance. With up to seven 160 MHz channels, Wi-Fi 7 can better support low-latency, bandwidth hungry applications like high-definition video and artificial reality/virtual reality applications. Only Wi-Fi 6E or 7-capable devices can use the 6 GHz band so there is no interference or slowdowns due to legacy devices.

Standard Features

Device Class Support

The AP-763 access points with integrated antennas are part of the Low Power Indoor (LPI) device class. This fixed indoor-only class uses lower power levels but can optionally support an Automated Frequency Coordination service (AFC) to manage incumbent outdoor services which is required for Standard Power (SP) class APs. The AP-764, AP-765, and AP-765EX models will typically operate as SP access points but may also be allowed to operate as LPI devices in some countries.

Global Readiness

While the need for more Wi-Fi capacity is recognized across the globe, countries are approaching 6 GHz differently. The HPE Aruba Networking 760 Series Hardened Access Points are set up to automatically update regulatory rules once Wi-Fi 7 regulations have been approved and certified.

Business Continuity

The HPE Aruba Networking 760 Series Hardened Access Points provide high speed connectivity with a 5 Gbps interface for both data and power. Configurable to 1, 2.5, or 5 Gbps (or 100 Mbps)

Advantages of OFDMA

This capability allows HPE Aruba Networking access points to handle multiple 802.11be capable clients on each channel simultaneously, regardless of device or traffic type. Channel utilization is optimized by handling each transaction through smaller subcarriers or resource units (RUs), which means that clients are sharing a channel and not competing for airtime and bandwidth.

Wi-Fi Optimization

Client optimization

The patented AI- powered HPE Aruba Networking Central ClientMatch technology helps eliminate sticky client issues by steering a client to the access point where it receives the best radio signal. HPE Aruba Networking ClientMatch steers traffic from the noisy 2.4 GHz band to the preferred 5 GHz or 6 GHz band depending on client capabilities. HPE Aruba Networking ClientMatch also dynamically steers traffic to load balance access points to improve the user experience.

Automated Wi-Fi radio frequency management

To optimize the user experience and provide greater stability, HPE Aruba Networking AirMatch allows organizations to automate network optimization using machine learning (ML). HPE Aruba Networking AirMatch provides dynamic bandwidth adjustments to support changing device density, enhanced roaming using an even distribution of effective isotropic radiated power (EIRP) to radios, and real-time channel assignments to mitigate co-channel interference.

HPE Aruba Networking Advanced Cellular Coexistence

Unique HPE Aruba Networking Advanced Cellular Coexistence (ACC) uses built-in filtering to automatically reduce the impact of interference from cellular networks, distributed antenna systems (DAS), and commercial small cell or femtocell equipment.

Standard Features

AI-powered Dynamic Power Save mode

Access points switch into a dynamic power save mode and automatically wake up at a schedule when connectivity demand arises, reducing power demands and saving money in alignment with the organization's sustainability initiatives.

Intelligent Power Monitoring (IPM)

For better insights into energy consumption, HPE Aruba Networking access points continuously monitor and report hardware energy usage. Unlike other vendor's access points, HPE Aruba Networking access points can also be configured to enable or disable capabilities based on available Power over Ethernet (PoE) power — ideal when wired switches have exhausted their power budget. Enterprises can deploy Wi-Fi 7 access points and update switching and power later if needed based on their actual usage.

Self-locating Access Points

Indoor location shouldn't require guesswork or costly, complex overlay technologies. HPE Aruba Networking Wi-Fi 6/6E and Wi-Fi 7 access points help organizations leverage their wireless investment to deliver indoor location capabilities everywhere.

As part of HPE Aruba Networking indoor location solutions, they serve as reference points for client devices and other technologies using fine time measurement (FTM).

Open Locate, an emerging standard that allows access points to share their location over the air, enables mobile devices to use Wi-Fi FTM or Bluetooth (BLE) to calculate their own location and apply location coordination information in a variety of applications including wayfinding, asset tracking, and employee safety.

The 760 series access points support FTM 802.11az for sub one-meter accuracy and include a GNSS receiver and built-in barometric sensor to enable APs to automatically place themselves on floor plan maps in HPE Aruba Networking Central, helping eliminate manual effort and error.

Notes: Feature available in a future software release.

Access Points as Flexible and Secure IoT-Ready Platform

The HPE Aruba Networking 760 Series Hardened Access Points can serve as flexible IoT platforms that bolster network security, provide coverage for a broad range of IoT devices, and help eliminate the need for network overlays just for IoT devices.

The 760 series include an IoT radio supporting Bluetooth 6 and 802.15.4 for Zigbee support to simplify deploying and managing IoT-based location services, asset tracking services, security solutions, and IoT sensors. There is also a USB-C extension providing up to 10W for IoT connectivity to a wide range of devices. These IoT capabilities allow organizations to leverage the access points as an IoT platform, which helps eliminate the need for an overlay infrastructure and opens opportunities to accelerate IoT initiatives.

In addition, Target Wake Time (TWT) establishes a schedule for when clients need to communicate with an access point. This helps improve client power savings and reduces airtime contention with other clients, which is ideal for IoT.

Standard Features

Streamline IoT Operations

HPE Aruba Networking Central IoT Operations is a service for APs running Wireless Operating System AOS-10. This unifies visibility of IT and OT infrastructure within the network health dashboard by extending network monitoring and insights to BLE, Zigbee, and other non-IP IoT devices. It helps streamline non-Wi-Fi device onboarding and data collection.

AI Client Insights

ML-based classification of all clients and IoT devices via Client Insights uses deep packet inspection to provide additional context and behavioural information to help ensure devices are receiving proper policy enforcement and continuously monitor for rogue devices.

Technology Partnerships

A broad ecosystem of technology partners provides interoperability for easier installations and operations, and certified solutions are available to help digital transformation and extend capabilities of network infrastructure.

Security Built-in

The 760 series access points include security capabilities such as:

WPA3 and Enhanced Open

Support for stronger encryption and authentication is provided via the latest version of WPA for enterprise-protected networks. Enhanced Open offers seamless new protection for users connecting to open networks where each session is automatically encrypted to protect user passwords and data on guest networks.

WPA2-MPSK

MPSK enables simpler passkey management for WPA2 devices — should the Wi-Fi password on one device or device type change, no additional changes are needed for other devices. This capability requires ClearPass Policy Manager.

10 GbE Port with MACsec

MACsec support extends wired Ethernet encryption to the access point using the 5 Gbps port.
Notes: Feature available in a future software release.

Trusted Platform Module (TPM)

For enhanced device assurance, all HPE Aruba Networking APs include an installed TPM for secure storage of credentials and keys, and boot code.

User and Device Authentication

Cloud-native Network Access Control (NAC) provided by HPE Aruba Networking Central further simplifies how IT controls network access while providing a frictionless experience for end users. Global policy automation and orchestration enables IT to define and maintain global policies at scale with ease, using UI-driven, intuitive workflows that automatically translate security intent into policy design and map user roles for employees, contractors, guests, and devices to their proper access privileges.

Standard Features

Intrusion Detection
HPE Aruba Networking Central utilizes the Rogue AP Intrusion Detection Service (RAPIDS) to identify and resolve issues caused by rogue APs and clients. Wired and wireless data is automatically correlated to identify potential threats, thereby strengthening network security and improving incident response processes by reducing false positives.

Web Content Filtering
Web Content Classification (WebCC) classifies websites by content category and rates them by reputation and risk score, enabling IT to block malicious sites to help prevent phishing, DDoS, botnets, and other common attacks.

Simple and Secure Access

To improve security and ease of management, IT can centrally configure and automatically enforce role-based policies that define proper access privileges for employees, guests, contractors, and other user groups — no matter where users connect on wired and WLANs. Dynamic Segmentation helps eliminate the time consuming and error-prone task of managing complex and static VLANs, ACLs, and subnets by dynamically assigning policies and keeping traffic secure and separated.

Seamless Handoffs to Cellular

Built on the technical foundations of Passpoint® and Wi-Fi Calling, HPE Aruba Networking Air Pass creates a roaming network across the HPE Aruba Networking enterprise customer footprint, extending cellular coverage and enhancing the visitor and subscriber experience to deliver a great experience for your guests while helping to reduce costs and management overhead for DAS.

Optimize with AOS-10

Cloud-native HPE Aruba Networking Wireless Operating System AOS-10 is the distributed network operating system working with HPE Aruba Networking Central that acts as the control layer for HPE Aruba Networking access points and gateways.

With its flexible architecture, IT can deliver reliable and secure wireless connectivity for small offices, mid-sized branches, large campus environments, and remote workers. Working in tandem with cloud-native HPE Aruba Networking Central, OS-10 provides the WLAN management and control to deliver greater scalability, security, and AI-powered optimization. Using OS-10 together with cloud-based Central for management and orchestration reduces processing required by the on-site gateways to manage clients and access points.

Enterprises can then optimize gateway deployments with fewer gateways in very large environments with thousands of access points and devices.

Flexible Operation and Management

Our unified APs can operate as stand-alone access points or with a gateway for greater scalability, security, and manageability. Access points can be deployed using Zero Touch Provisioning — without on-site technical expertise — for ease of implementation in branch offices and for remote work.

Standard Features

HPE Aruba Networking access points can be managed using cloud-based solutions for any campus, branch, or remote work environment. HPE Aruba Networking Central provides a single pane of glass for overseeing every aspect of wired and wireless LANs, WANs, and VPNs. AI-powered analytics, end-to-end orchestration and automation, and advanced security features are built natively into the solution.

Simplified, Flexible Consumption

The 760 series access points require HPE Aruba Networking Central subscription-based licenses, which are purchased on a per-device basis for APs. Licenses are available in 1-, 3-, 5-, 7-, and 10-year increments, making it easy to align requirements for AIOps, security, and other desired management features. HPE Aruba Networking Wireless Operating System (OS 10) is included in the subscription.

Summary

For enterprises looking for the highest performance Wi-Fi, the flagship HPE Aruba Networking 760 Series Hardened Access Points deliver more wireless capacity by taking advantage of Wi-Fi 7 features, the 6 GHz band, and a powerful architecture featuring flexible radio configurations. They support IoT integration with IoT radios and USB ports, provide highly precise locating with built-in GNSS receivers, barometric sensors, and fast wired connectivity with 5 Gbps Ethernet ports.

Unique to HPE Aruba Networking, the HPE Aruba Networking Wireless Operating System (OS 10) based 760 series access points with a 5 Gbps Ethernet port, including flexible radios and antennas to help with eliminating coverage gaps, providing greater resiliency, and delivering fast, secure connectivity.

Configuration Information

BTO Models

763 Indoor Access Points

Description	SKU
HPE Aruba Networking AP-763 (US) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Indoor AP	S4K09A
HPE Aruba Networking AP-763 (RW) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Indoor AP	S4K10A
HPE Aruba Networking AP-763 (JP) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Indoor AP	S4K11A
HPE Aruba Networking AP-763 (IL) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Indoor AP	S4K12A
HPE Aruba Networking AP-763 (ID) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Indoor Access Point	S6A19A
HPE Aruba Networking AP-763 (EG) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Indoor AP	S4K13A

763 TAA Indoor Access Points

Description	SKU
HPE Aruba Networking AP-763 (USF1) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional TAA Indoor AP	S4K14A
HPE Aruba Networking AP-763 (RWF1) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional TAA Indoor AP	S4K15A
HPE Aruba Networking AP-763 (JPF1) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional TAA Indoor AP	S4K16A
HPE Aruba Networking AP-763 (ILF1) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional TAA Indoor AP	S4K17A
HPE Aruba Networking AP-763 (EGF1) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional TAA Indoor AP	S4K18A

764 Connectorized Outdoor Access Points

Description	SKU
HPE Aruba Networking AP-764 (US) Flex Radio 2x2 Wi-Fi 7 Connectorized Hardened AP	S4K34A
HPE Aruba Networking AP-764 (RW) Flex Radio 2x2 Wi-Fi 7 Connectorized Hardened AP	S4K35A
HPE Aruba Networking AP-764 (JP) Flex Radio 2x2 Wi-Fi 7 Connectorized Hardened AP	S4K36A
HPE Aruba Networking AP-764 (IL) Flex Radio 2x2 Wi-Fi 7 Connectorized Hardened AP	S4K37A
HPE Aruba Networking AP-764 (ID) Flex Radio 2x2 Wi-Fi 7 Connectorized Hardened Access Point	S6A20A
HPE Aruba Networking AP-764 (EG) Flex Radio 2x2 Wi-Fi 7 Connectorized Hardened AP	S4K38A

764 Connectorized TAA Outdoor Access Points

Description	SKU
HPE Aruba Networking AP-764 (USF1) Flex Radio 2x2 Wi-Fi 7 Connectorized TAA Hardened AP	S4K39A
HPE Aruba Networking AP-764 (RWF1) Flex Radio 2x2 Wi-Fi 7 Connectorized TAA Hardened AP	S4K40A
HPE Aruba Networking AP-764 (JPF1) Flex Radio 2x2 Wi-Fi 7 Connectorized TAA Hardened AP	S4K41A
HPE Aruba Networking AP-764 (ILF1) Flex Radio 2x2 Wi-Fi 7 Connectorized TAA Hardened AP	S4K42A
HPE Aruba Networking AP-764 (EGF1) Flex Radio 2x2 Wi-Fi 7 Connectorized TAA Hardened AP	S4K43A

Configuration Information

765 Outdoor Access Points

Description	SKU
HPE Aruba Networking AP-765 (US) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Outdoor AP	S4K19A
HPE Aruba Networking AP-765 (RW) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Outdoor AP	S4K20A
HPE Aruba Networking AP-765 (JP) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Outdoor AP	S4K21A
HPE Aruba Networking AP-765 (IL) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Outdoor AP	S4K22A
HPE Aruba Networking AP-765 (ID) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Outdoor AP	S6A21A
HPE Aruba Networking AP-765 (EG) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Outdoor AP	S4K23A

765 TAA Outdoor Access Points

Description	SKU
HPE Aruba Networking AP-765 (USF1) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional TAA Outdoor AP	S4K24A
HPE Aruba Networking AP-765 (RWF1) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional TAA Outdoor AP	S4K25A
HPE Aruba Networking AP-765 (JPF1) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional TAA Outdoor AP	S4K26A
HPE Aruba Networking AP-765 (ILF1) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional TAA Outdoor AP	S4K27A
HPE Aruba Networking AP-765 (EGF1) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional TAA Outdoor AP	S4K28A

765EX HazLoc Access Points

Description	SKU
HPE Aruba Networking AP-765EX (US) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional HazLoc AP	S4K29A
HPE Aruba Networking AP-765EX (RW) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional HazLoc AP	S4K30A
HPE Aruba Networking AP-765EX (JP) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional HazLoc AP	S4K31A
HPE Aruba Networking AP-765EX (IL) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional HazLoc AP	S4K32A
HPE Aruba Networking AP-765EX (ID) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional HazLoc AP	S6A22A
HPE Aruba Networking AP-765EX (EG) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional HazLoc AP	S4K33A

Mounting Accessories

Indoor Mount Kits

Description	SKU
HPE Aruba Networking AP-MNT-U Campus Access Point Type U Universal Mount Bracket Kit	S4K79A
HPE Aruba Networking AP-MNT-MP10-U Campus AP Universal 10-pack Mount Bracket Kit	S0J40A
HPE Aruba Networking AP-MNT-A Campus AP Type A Suspended Ceiling Rail Flat 9/16 Mount Bracket Kit	R3J15A
HPE Aruba Networking AP-MNT-MP10-A Campus AP 10-Pack 9/16 Flat Ceiling Rail Mount Bracket Kit	JZ370A
HPE Aruba Networking AP-MNT-B Campus AP Type B Suspended Ceiling Rail Flat 15/16 Mount Bracket Kit	R3J16A

Configuration Information

HPE Aruba Networking AP-MNT-MP10-B Campus AP 10-Pack 15/16 Flat Ceiling Rail Mount Bracket Kit	Q9G69A
HPE Aruba Networking AP-MNT-MP10-B1 Campus AP 10-Pack 15/16 Adj Flat Ceiling Rail Mount Bracket Kit	R6T34A
HPE Aruba Networking AP-MNT-C Campus AP Type C Suspended Ceiling Rail 9/16 Profile Mnt Bracket Kit	R3J17A
HPE Aruba Networking AP-MNT-MP10-C Campus AP 10-Pack Profile 9/16 Ceiling Rail Mount Bracket Kit	Q9G70A
HPE Aruba Networking AP-MNT-D Campus AP Type D Solid Surface Mount Bracket Kit	R3J18A
HPE Aruba Networking AP-MNT-MP10-D Campus AP 10-Pack Solid Surface Mount Bracket Kit	Q9G71A
HPE Aruba Networking AP-MNT-E Campus AP Type E Wall-Box Mount Bracket Kit	R3J19A
HPE Aruba Networking AP-MNT-MP10-E Campus AP 10-Pack Wall-box Mount Bracket Kit	R1C72A

Outdoor and Hazloc AP Mount Kits

Description	SKU
HPE Aruba Networking AP-OUT-MNT-V1A Outdoor AP Long Arm Pole/Wall Mounting Bracket	R9H97A
HPE Aruba Networking AP-270-MNT-V2 Outdoor AP Short Arm Pole/Wall Mounting Bracket	JW053A
HPE Aruba Networking AP-270-MNT-H1 Outdoor AP Hanging One-Way Tilt Pole/Wall Mounting Bracket	JW054A
HPE Aruba Networking AP-270-MNT-H2 Outdoor AP Flush Wall Mounting Bracket	JW055A
HPE Aruba Networking AP-270-MNT-H3 Outdoor AP Hanging Dual-Tilt Pole/Wall Mounting Bracket	R6W11A
HPE Aruba Networking AP-OUT-MNT-ACC Accessory Mount	S0P69A
HPE Aruba Networking AP-270-MNT-ADP AP-228 to AP-270-MNT-XX Outdoor Mount Adapter	JW056A

Power Options

PoE Power Options

Description	SKU
HPE Aruba Networking PD-9501-5GCO-AC 60W 802.3bt Smart Rate Otdr Surge Protection Midspan Injector	R7T40A
HPE Aruba Networking PD-9501-5GCO-DC 60W 802.3bt Smart Rate Otdr Surge Protection Midspan Injector	R7T41A
HPE Aruba Networking AP-POE-BT10 1-port 10G 60W Midspan 802.3bt PoE Injector	S3J26A

Power Injector Mounts

Description	SKU
HPE Aruba Networking PD-MOUNT-OD Outdoor PoE Midspan Injectors Pole/Mast Mount Kit	JW620A

Configuration Information

Accessories

Antenna

Description	SKU
HPE Aruba Networking AP-ANT-311 Direct-Mount RP-SMA Tri-Band 1x1 Omni Dipole Antenna	S1F79A
HPE Aruba Networking AP-ANT-312 Direct-Mount RP-SMA Tri-Band 1x1 Low-Profile Omni Dipole Antenna	S1F80A
HPE Aruba Networking AP-ANT-312F Direct-Mount RP-SMA Tri Band Fixed Low-Profile Omni Dipole Antenna	S6A17A
HPE Aruba Networking AP-ANT-313 Cabled RP-SMA Tri-Band 1x1 Omni Dipole Antenna	S1F81A
HPE Aruba Networking AP-ANT-320 Cabled RP-SMA Tri-Band 2x2 Downtilt Omni Ceiling Antenna	S1F85A
HPE Aruba Networking AP-ANT-325 Cabled RP-SMA Tri-Band 2x2 Medium Gain Directional Panel Antenna	S1F86A
HPE Aruba Networking AP-ANT-328 Cabled RP-SMA Tri-Band 2x2 High Gain Directional Panel Antenna	S1F87A
HPE Aruba Networking eANT-2x2-256D60-7 7dBi Tri Band 2x2 Outdoor Directional Antenna	S5A98A
HPE Aruba Networking eANT-2x2-56O-10 5/6Ghz 10dBi Omni-Directional Outdoor Antenna	S0P65A
HPE Aruba Networking eANT-2x2-56D30-14 5/6Ghz 14dBi Directional Outdoor Antenna	S0P66A

Antenna Mount Kits

Description	SKU
HPE Aruba Networking AP-ANT-MNT-U Universal AZ/EL Adjustable Antenna Pole Wall Mount Kit	S1J09A

Antenna Cable

Description	SKU
HPE Networking ANT-CBL-RPSMA-Nm-1 Tri Band RP-SMA to Nm Indoor/Outdoor 1m Wi-Fi Antenna Cable	S5B00A
HPE Networking ANT-CBL-RPSMA-Nm-2 Tri Band RP-SMA to Nm Indoor/Outdoor 2m Wi-Fi Antenna Cable	S5B01A
HPE Networking ANT-CBL-RPSMA-TNC-1 GNSS RP-SMA to TNC Indoor/Outdoor 1m Antenna Cable	S6A18A

Configuration Rules

Spare Items

Description	SKU
HPE Aruba Networking AP-ACC-760-CVR Solar Cover Kit	S6F38A
HPE Aruba Networking AP-OUT-ETH-M12X Code Ethernet Adapter	S5A99A
HPE Aruba Networking AP-ACC-763-ETHCVR Ethernet Dust Cover Kit	S5B02A
HPE Aruba Networking Outdoor AP Metric to Standard M20 to 1/2 inch NPT 5-pk Thread Adapter	Q8N48A

Technical Specifications

Hardware Variants

- AP-763 – Indoor-Only Internal Antenna
- AP-764 – Outdoor External Antenna
- AP-765 – Outdoor Internal Antenna
- AP-765 – HazLoc Internal Antenna

Wi-Fi Radio Specifications

- AP type: Dual-radio, tri-band capable radio, covering 2.4 GHz, 5 GHz and 6 GHz (802.11be dual 2x2 MIMO)
  - Integrated antenna supports optional single-radio mode in 5 GHz or 6 GHz (802.11be 4x4 MIMO
  - 2.4 GHz radio: Two spatial stream MIMO for up to 688 Mbps wireless data rate with 2SS EHT40 802.11be client devices
  - 5 GHz radio: Four spatial stream MIMO for up to 2.88 Gbps wireless data rate with 4SS EHT80 802.11be client devices
  - 6 GHz radio: Four spatial stream MIMO for up to 5.76 Gbps wireless data rate with 4SS EHT160 802.11be client devices
- MU-MIMO (downlink, uplink) is supported on all radios.
- Up to 400 associated client devices per radio, and up to 16 BSSIDs per radio
- Supported frequency bands (country-specific restrictions apply): 2.400 to 2.4835 GHz ISM
  - 5.150 to 5.250 GHz U-NII-1
  - 5.250 to 5.350 GHz U-NII-2
  - 5.470 to 5.725 GHz U-NII-2E
  - 5.725 to 5.850 GHz U-NII-3/ISM
  - 5.925 to 6.425 GHz U-NII-5
  - 6.425 to 6.525 GHz U-NII-6
  - 6.525 to 6.875 GHz U-NII-7
  - 6.875 to 7.125 GHz U-NII-8
- Available bands and channels: Dependent on configured regulatory domain (country)
- Dynamic frequency selection (DFS) optimizes the use of available RF spectrum in the 5 GHz band.
  - Including Zero-Wait DFS (ZWDFS) to accelerate channel changes.
- Supported radio technologies: 802.11b: Direct-sequence spread-spectrum (DSSS)
  - 802.11a/g/n/ac: Orthogonal frequency-division multiplexing (OFDM)
  - 802.11ax/be: Orthogonal frequency-division multiple access (OFDMA) with up to 37 resource units
- Supported modulation types: 802.11b: BPSK, QPSK, CCK
  - 802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM and 256-QAM (proprietary extension)
  - 802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM and 1024-QAM (proprietary extension)
  - 802.11ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, and 1024-QAM
  - 802.11be: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, and 4096-QAM
  - 802.11n high throughput (HT) support: HT20/40
  - 802.11ac very high throughput (VHT) support: VHT20/40/80/160
  - 802.11ax high efficiency (HE) support: HE20/40/80/160
  - 802.11be extreme high throughput (EHT) support: EHT20/40/80/160/
- Supported data rates (Mbps): 802.11b: 1, 2, 5.5, 11.
  - 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54
  - 802.11n: 6.5 to 600 (MCS0 to MCS15, HT20 to HT40)
  - 802.11ac: 6.5 to 3,467 (MCS0 to MCS9, NSS = 1 to 4, VHT20 to VHT160)

Technical Specifications

  - 802.11ax: 7.3 to 4,804 (MCS0 to MCS11, NSS = 1 to 4, HE20 to HE160)
  - 802.11be: 7.3 to 11,530 (MCS0 to MCS13, NSS = 1 to 4, EHT20 to EHT160)
- 802.11n/ac packet aggregation: A-MPDU, A-MSDU
- Transmit power: Configurable in increments of 0.5 dBm.
- Maximum (aggregate, conducted total) transmit power (limited by local regulatory requirements
  - Per radio/band (2.4 GHz/5 GHz/6 GHz): +25 dBm 2x2 MIMO (22 dBm per chain)
  - Per radio/band (5 GHz/6 GHz): +28 dBm 4x4 MIMO (22 dBm per chain)

  Notes: Conducted transmit power levels exclude antenna gain. For total (EIRP) transmit power, add antenna gain.
- Advanced Cellular Coexistence (ACC) minimizes the impact of interference from cellular networks.
- Maximum ratio combining (MRC) for improved receiver performance.
- Cyclic delay/shift diversity (CDD/CSD) for improved downlink RF performance
- Space-time block coding (STBC) for increased range and improved reception
- Low-density parity check (LDPC) for high-efficiency error correction and increased throughput
- Transmit beam-forming (TxBF) for increased signal reliability and range.
- 802.11ax Target Wait Time (TWT) to support low-power client devices
- 802.11mc/az Fine Timing Measurement (FTM) for precision distance ranging

Wi-Fi Antennas

- AP-763:
  - Omnidirectional Mode - peak antenna gain of 2.8dBi in 2.4GHz (2x2), 3.9 dBi in 5 Ghz (2x2), 3.0 dBi in 5 Ghz (4x4), 3.3dBi in 6GHz (2x2), and 3.2 dBi in 6GHz (4x4)
  - Omnidirectional mode antennas are optimized for horizontal ceiling mounted orientation of the access points. The highest gain is achieved at a down tilt between 10 and 20 degrees from the AP horizontal.
  - Directional Mode - peak antenna gain of 6.1dBi in 2.4GHz (2x2), 6.0 dBi in 5 Ghz (2x2), 6.1 dBi in 5 Ghz (4x4), 7.4 dBi in 6GHz (2x2), and 7.2 dBi in 6GHz (4x4)
  - Directional mode antennas are optimized for wall or pole mounting for directional coverage with the orientation of the access points facing the direction of coverage with approximately 90˚ x 90˚ beamwidth.
- AP-764:
  - Two sets of two (female) RP-SMA connectors for external antennas
  - DB0 and DB1 corresponding with radio chains 0 and 1 for the 2.4 GHz and 5 GHz radios.
  - 6G0 and 6G1 corresponding with radio chains 0 and 1 for the 6 GHz radio.
  - Worst-case internal loss between radio interface and external antenna connectors: 1.0 dB in 2.4 GHz, 1.0 dB in 5 GHz and 1.0 dB in 6 GHz.
- AP-765:
  - Omnidirectional Mode - peak antenna gain of 2.8dBi in 2.4GHz (2x2), 3.9 dBi in 5 Ghz (2x2), 3.0 dBi in 5 Ghz (4x4), 3.3dBi in 6GHz (2x2), and 3.2 dBi in 6GHz (4x4)
  - Omnidirectional mode antennas are optimized for horizontal ceiling mounted orientation of the access points. The downtilt angle for maximum gain is roughly 10 to 20 degrees.
  - Directional Mode - peak antenna gain of 6.1dBi in 2.4GHz (2x2), 6.0 dBi in 5 Ghz (2x2), 6.1 dBi in 5 Ghz (4x4), 7.4 dBi in 6GHz (2x2), and 7.2 dBi in 6GHz (4x4)
  - Directional mode antennas are optimized for wall or pole mounting for directional coverage with the orientation of the access points facing the direction of coverage with approximately 90˚ x 90˚ beamwidth.

Other Interfaces and Features

- E0: Ethernet wired network port (RJ-45)
  - Auto-sensing link speed (100/1000/2500/5000BASE-T) and MDI/MDIX
  - PoE-PD: 48Vdc (nominal) 802.3af/at/bt PoE (class 3 or higher)
  - 802.3az Energy Efficient Ethernet (EEE)
  - MACsec support on E0 (802.1ae)
- U0: USB 2.0 host interface (Type C connector)
  - Capable of sourcing up to 2A/10W to one device
- IOT radio options: BLE 5.4 (w/HADM), plus either BLE 5.4 or 802.15.4/Zigbee:
  - BLE: BT5.4 with up to 16dBm transmit power (class 1) and -105dBm receive sensitivity (125 kbps)
  - IEEE 802.15.4/Zigbee: up to 12dBm transmit power and -97dBm receive sensitivity (250 kbps)
  - Integrated omnidirectional antenna with roughly 10 - 20 degrees downtilt and peak gain of ~4 dBi (AP-763, AP-765, and AP-765EX). AP-764 uses external antenna determined by installer.
- GNSS L1 (1575.42 MHz) and L5 (1176.45 MHz) receiver supporting GPS, Galileo, GLONASS, and BeiDou signal.
  - Receive sensitivity: -165dBm (tracking)
  - Integrated omnidirectional antenna with roughly 30 to 40 degrees downtilt and peak gain of 3.0dBi (AP-763, AP-765, and AP-765EX) or external GPS antenna (AP-764)
- Integrated barometric pressure sensor to determine (relative) deployment altitude of the AP.
- Advanced IoT Coexistence (AIC) allows concurrent operation of multiple radios in the 2.4 GHz band.
- Built-in Trusted Platform Module (TPM) for enhanced security and anti-counterfeiting.
- Visual indicators for system and radio status (1x multicolor LED), auto-disable after 15 minutes of uptime
- Reset button: factory reset, LED mode control (normal/off)
- Serial console interface (proprietary, micro-B USB physical jack)
- Kensington security slot (AP-763 only)
- Outdoor grounding and fall-arrest lug
- Automatic thermal shutdown and recovery function

Power sources and power consumption

- The access point supports PoE on port E0.
- Power sources are sold separately.
- When powered by 802.3bt (class 5) PoE, the access point will operate without restrictions.
- When powered by 802.3at (class 4) PoE with the IPM feature disabled, the access point will disable the USB-C port.
- Operating the access point with an 802.3af (class 3 or lower) PoE source is not supported (except for access point staging)
- With IPM enabled, the access point will start up in unrestricted mode but may dynamically apply restrictions depending on the available power budget and actual consumption. The feature restrictions and order in which these get applied are configurable.
- Maximum (worst case) power consumption (without/with USB devices attached):
  - PoE powered: 25.5W (802.3at) / 34.5W (802.3bt Class 5)
  - This assumes that up to 10W is supplied to the attached USB devices.
  - Maximum (worst case) power consumption in idle mode: 10.5W/21.5W (PoE)
  - Maximum (worst case) power consumption in deep-sleep mode: 3.8W (PoE)

Mounting Details

HPE Aruba Networks 760 Series Hardened Access Points (AP-763): Mounting bracket rail is preinstalled on the back to secure the AP-763 to one of the compatible indoor mounting kits (sold separately). Includes posts to support the addition of AP-270-MNT-ADP for use with the outdoor AP mounts (also sold separately).

HPE Aruba Networks 760 Series Hardened Access Points (AP-764, AP-765, and AP-765EX): Mounting bracket mount holder is preinstalled on the back to secure the AP-764/AP-765 to one of the compatible outdoor mounting brackets (sold separately).

Mechanical Specifications

- Dimensions/weight (HPE Aruba Networking AP-763; unit without mount bracket):
  - Bare AP - 263.3 x 170 x 93 (mm) / 10.36 x 6.69 x 3.66 (in)
  - With included mount bracket - 263.3 x 170 x 108.8 (mm) / 10.36 x 6.69 x 4.28 (in)
  - Unit Weight w/mount bracket - 1.53 (kg) / 3.37 (lbs)

- Dimensions/weight (HPE Aruba Networking AP-764; unit without mount bracket):
  - Bare AP - 266.4 x 174 x 83 (mm) / 10.48 x 6.85 x 3.26 (in)
  - With included mount bracket - 266.4 x 174 x 125.4 (mm) / 10.48 x 6.85 x 4.93 (in)
  - Unit Weight w/mount bracket - 2.03 (kg) / 4.47 (lbs)

- Dimensions/weight (HPE Aruba Networking AP-765; unit without mount bracket):
  - Bare AP - 266.4 x 174 x 100 (mm) / 10.48 x 6.85 x 3.93 (in)
  - With included mount bracket - 266.4 x 174 x 142.4 (mm) / 10.48 x 6.85 x 5.6 (in)
  - Unit Weight w/mount bracket - 2 (kg) / 4.4 (lbs)

- Dimensions/weight (HPE Aruba Networking AP-765EX; unit without mount bracket):
  - Bare AP - 266.1 x 174 x 100 (mm) / 10.47 x 6.85 x 3.93 (in)
  - With included mount bracket - 266.1 x 174 x 142.4 (mm) / 10.47 x 6.85 x 5.6 (in)
  - Unit Weight w/mount bracket - 2.04 (kg) / 4.49 (lbs)

- Dimensions/weight (; shipping):
  - Single Box Dimensions - 222 x 196 x 314 (mm) / 8.74 x 7.71 x 12.36 (in)
  - 2.23 (kg) / 4.91 (lbs) (AP-763)
  - 2.76 (kg) / 6.08 (lbs) (AP-764)
  - 2.71 (kg) / 5.97 (lbs) (AP-765)
  - 2.75 (kg) / 6.06 (lbs) (AP-765EX)

- Multi-Box (4-pack) Dimensions - 465 x 409 x 342 (mm) / 18.3 x 16.1 x 13.46 (in)
  - 9.92 (kg) / 21.86 (lbs) (AP-763)
  - 12.04 (kg) / 26.54 (lbs) (AP-764)
  - 11.84 (kg) / 26.1 (lbs) (AP-765)
  - 11.98 (kg) / 26.41 (lbs) (AP-765EX)

Technical Specifications

Environmental Specifications

- Indoor operating conditions (AP-763)
  - Temperature:
    - –40°C to +55°C / –40°F to +131°F
  - Relative humidity: 5% to 95%
  - Compliant with Low Power Indoor (LPI) form factor
  - Storage and transportation temperature and conditions
    - –40°C to +70°C / –40°F to +158°F
  - Operating altitude: 3000m
  - Water and dust rating
  - IP 50

- Outdoor operating conditions (AP-764, AP-765, and AP-765EX)
  - Temperature:
    - With solar cover: –40°C to +65°C / –40°F to +149°F
    - Without solar cover: –40°C to +55°C / –40°F to +131°F
  - Humidity: 5% to 100% noncondensing internal
  - Rated for operation in all weather conditions.
  - Storage and transportation conditions
    - Temperature: –40°C to +70°C / –40°F to +158°F
  - Operating altitude: 3000m
  - Wind, water, and dust.
    - Wind: 165 mph / 265 km/hr
    - IP 66 / IP 67
  - Salt tolerance
    - Test to ASTM B117-07A salt spray 200 hrs

- Storage conditions
  - Temperature: -25C to +55C / -13F to +131F
  - Relative humidity: 10% to 100%
  - ETS 300 019 class 1.2 environments

- Transportation conditions
  - Temperature: -40C to +70C / -40F to +158F
  - Relative humidity: up to 95%
  - ETS 300 019 class 2.3 environments

Reliability

Mean time between failure (MTBF): +750khrs (+85 years) at 25°C operating temperatures, +325khrs (+37 years) 45°C operating temperatures

General regulatory statements

HPE Aruba Networking WLAN Access Points (APs) comply with all regulatory rules that apply in the country they are configured for.

In most countries these products may not be allowed to enable all available radios and channels, and various restrictions may apply (RF transmit power levels, radar detection, and so on).

Hewlett Packard Enterprise will continue to upgrade the software and regulatory restrictions that apply to these products to help ensure they remain in compliance with the latest regulatory rules in the country of operation.

However, this does not imply a promise or commitment to enable all radios in all countries where we ship these products, and/or enabling all deployment scenarios (indoor/outdoor for example) that they can be configured for.

Consult your HPE representative to confirm the latest regulatory status for each product in the country of operation and any anticipated future enhancements or other changes, as well as check the regulatory rules through the host country's regulatory agencies for more.

Regulatory Compliance

- FCC/ISED
- CE marked
- EU RED with NB TA (as needed)
- ETSI EN 300 328 2.4GHz
- ETSI EN 301 893 5GHz
- ETSI EN 303 687 (6GHz)
- EN 301-489-1 / 489-17
- EN 300 440
- EN 303 413 GNSS (GPS)
- IEC/EN 62368-1
- EN 60601-1-1, EN60601-1-2

For more country-specific regulatory information and approvals, please see your HPE Aruba Networking representative.

Regulatory Model Numbers

- HPE Aruba Networking AP-763 (all SKUs): APIN0763
- HPE Aruba Networking AP-764 (all SKUs): APEX0764
- HPE Aruba Networking AP-765 (all SKUs): APEX0765
- HPE Aruba Networking AP-765EX (all SKUs): APEX0765EX

Technical Specifications

Certifications

- Wi-Fi Alliance:
  - Wi-Fi certified a, b, g, n, ac, 6, 7
  - WPA2 and WPA3 (enterprise, personal), Enhanced Open (OWE)
  - WMM, WMM PS, Wi Fi agile multiband
- Bluetooth SIG • Ethernet Alliance (E0, PoE PD Device Class 6)
- Class 1 Division 2 (AP-765EX only)
- Class 2 Division 2 (AP-765EX only)
- ATEX Zone 2 (AP-765EX only)
- IECEx (AP-765EX only)

Warranty

HPE Aruba Networking’s hardware limited lifetime warranty.

Minimum Operating System Software Versions

HPE Aruba Networking Wireless Operating System AOS 10.8.0.0

Summary of Changes

Date	Version History	Action	Description of Change
15-Jun-2026	Version 3	Changed	Internal QS Updates: Survey Text link
27-Feb-2026	Version 2	Changed	Technical Specifications section was updated.
03-Nov-2025	Version 1	New	New QuickSpecs

Copyright

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