HPE Aruba Networking 760 Series Hardened Access Points

HPE Aruba Networking AP-765 (RW) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Outdoor AP (S4K20A)



What's new

- High performance hardened Wi-Fi 7 access points with purpose-built models for industrial indoors, outdoors, large public venues, and hazardous environments
- AI-driven orchestration and management with HPE Aruba Networking Central helps provide amazing wireless experiences and operational efficiency

Overview

The HPE Aruba Networking 760 Series Hardened Access Points bring high performance WiFi 7 to challenging locations such as industrial sites, warehouses, and large public venues. These compact Wi-Fi 7 access points boost security, support Internet of Things (IoT) devices, and help provide accurate location services. HPE Aruba Networking Central helps drive efficient operations and provides AI-automation and machine learning (ML) insights for fine-tuned wireless connectivity.

With integrated IoT radios, fast 5GbE wired connectivity, and a limited

- It delivers up to 4.3 Gbps maximum 5 GHz + 6 GHz aggregate data rate, using dual 2x2 MIMO radios (5 GHz and 6 GHz 2x2), or up to 5.8 Gbps (in 6 GHz 4x4)
- Industrial IoTready platform with highpower integrated Bluetooth and 802.15.4/Zigbee radios
- Low power indoor (LPI) power and standard power (SP) device operation, where available. Embedded GPS receiver for location and SP support
- Dynamic power save mode helps reduce energy consumption

lifetime warranty, the 760 series is purposebuilt to deliver high-performance WiFi 7 across a range of environmental conditions: indoor industrial, outdoors, and hazardous environments, delivering up to 5.8 Gbps maximum aggregate data rates using 6 GHz (4x4).

For extreme environments, the 760EX models are hazardous location compliant, ideal for environments such as oil rigs, industrial manufacturing, and transportation sites.

Features

Hardened and Outdoor Wi-Fi 7

The HPE Aruba Networking 760 Series Hardened Access Points take advantage of the increased capacity of the 6 GHz band to deliver high speeds, wider channels for multi-gigabit traffic, and less interference in environments where typical indoor access points can't operate.

These small form factor APs have a built-in GPS receiver for standard power (SP) support and to help provide precision location services with FTM 802.11az capability.

Intelligent automation, AI insights, and unified infrastructure management, provided by HPE Aruba Networking Central, enhance wireless performance and help drive more efficient IT operations.

Dual radio, tri-band coverage across 2.4 GHz, 5 GHz, and 6 GHz delivers up to 4.3 Gbps maximum 5 GHz + 6 GHz aggregate data rate, using dual 2x2 MIMO radios (5 GHz and 6 GHz 2x2), or up to 5.8 Gbps (6 GHz 4x4). Supports up to 160 MHz wide channels.

Innovative dynamic antennas (integrated omni and directional, software provisioned) help customize the deployment to best suit a variety of different spaces (internal antenna models only, not supported on AP-764 model).

Purpose-built Models Address Tough Environments

The HPE Aruba Networking 760 Series Hardened Access Points includes three small form factor models that each include a built-in GPS receiver for SP support and for providing precision location services with FTM 802.11az capability.

Designed for industrial indoor, outdoor environments, large public venues, and hazardous environments, the 760 series operates as low power indoor (LPI) and standard power (SP) devices where available.

The AP763 indoor model operates as an indoor LPI/SP (composite) device and is ideal for indoor warehouses, LPVs, industrial facilities, and indoor enterprise, where directionalLPI is required (IP50 rating).

The AP764 hardened model operates as an outdoor SP device and is ideal for industrial enclosures, LPV enclosures and potential mesh, and supports external antennas for connectorized requirements (IP66/67 rating).

The AP765 outdoor model operates as an outdoor SP and is ideal for outdoor WiFi 7 coverage, indoor or outdoor warehouses, LPV, and industrial facilities (IP66/IP 67 rating). The AP765EX hazardous locations is Class 1 Division 2 and ATEX Zone 2 certified for HazLoc applications.

Comprehensive Security Built-in

The HPE Aruba Networking 760 Series Hardened Access Points offer enhanced security with dynamic segmentation to mitigate 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.

Network protection with stronger encryption and authentication with WPA3, secure credentials/keys storage for guest access with Enhanced Open, and user and IoT access policy enforcement firewalls.

AI-powered classification of all Wi-Fi clients and IoT devices through HPE Aruba Networking Central uses deep packet inspection to provide behavioral context that helps ensure devices are receiving proper policy enforcement and continuous monitoring.

To simplify policy enforcement, the HPE Aruba Networking 760 Series Hardened Access Points use the policy enforcement firewall (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 760 series APs include a built-in trusted platform module (TPM) for secure storage of credentials, keys, and boot code.

Industrial IoT Ready Platform

The HPE Aruba Networking 760 Series Hardened Access Points can serve as flexible IoT platforms that bolster network security and provide coverage for a broad range of IoT devices without the need for network overlays for IoT devices.

Seamlessly onboard IoT devices with highpower Bluetooth and 802.15.4/Zigbee radios that help simplify deploying and managing IoT devices. USB port supports additional connectivity to a broad range of IoT devices.

HPE Aruba Networking Central IoT operations unify visibility of IT and OT infrastructure within the network health dashboard by extending network monitoring, visibility, and insights to BLE, Zigbee, and other non-IP IoT devices.

The 760 series can run IoT containerized applications from the application store within HPE Aruba Networking Central to move processing to the edge, making it ideal for realtime AI inference.

A broad ecosystem of technology partners and certified solutions helps extend IoT capabilities and provide interoperability for easier installations and operations.

Technical specifications	HPE Aruba Networking AP-765 (RW) Flex Radio 2x2 Wi-Fi 7 Dynamic Omni-Directional Outdoor AP
Product Number	S4K20A
Deployment	Hardened Outdoor Industrial Ruggedized Indoor
Wi-Fi generation	Wi-Fi 7 (802.11be)
Wi-Fi radios	Dual 2x2 MIMO radios, tri-band coverage (2.4 GHz, 5 GHz, 6 GHz) or single 4x4 MIMO radio in 5 GHz or 6 GHz
Radio configuration options	6 GHz (4x4) with 160 MHz (AP-763 and AP-765 models only) 5 GHz (4x4) with 80 MHz (AP-763 and AP-765 models only) 6 GHz + 5 GHz (2x2) with 160/80 MHz 6 GHz + 2.4 GHz (2x2) with 80/40 MHz 5 GHz + 2.4 GHz (2x2) with 80/40 MHz
Max bandwidths and peak data rate per band	20/40/80/160 MHz channel bandwidths supported Aggregate peak data rate 5.8 Gbps using 6 GHz (4x4) with 160 MHz
Wi-Fi antenna	Integrated tri-band dynamic antennas (software-provisionable omnidirectional or directional). - Omnidirectional Mode - peak antenna gain of 2.8 dBi in 2.4 GHz (2x2), 3.9 dBi in 5 GHz (2x2), 3.0 dBi in 5 GHz (4x4), 3.3 dBi in 6 GHz (2x2), and 3.2 dBi in 6 GHz (4x4). - Omnidirectional mode antennas are optimized for horizontal ceiling mounted orientation of the access points. The down-tilt angle for maximum gain is roughly 10 to 20 degrees. - Directional Mode - peak antenna gain of 6.1 dBi in 2.4 GHz (2x2), 6.0 dBi in 5 GHz (2x2), 6.1 dBi in 5 GHz (4x4), 7.4 dBi in 6 GHz (2x2), and 7.2 dBi in 6 GHz (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.
Ultra tri-band (UTB) filtering	No
IoT support	BLE 5.4 w/HADM 802.15.4/Zigbee USB
Integrated sensor	Barometric sensor
Location services	802.11 FTM support Built-in GPS GNSS receiver
Cellular support	No
Wired network interface	1 x 5GbE (auto-sensing link speed 100/1000/2500/5000BASE-T and MDI/MDIX)
MACsec support	Yes

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Ports	1 x 5GbE USB 2.0 Reset button Serial console
AP operating system support	HPE Aruba Networking Wireless Operating System 10
AP management	Public Cloud Virtual Private Cloud (VPC) as a Service On-premises
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)
Regulatory	FCC/ISED CE marked EU RED with NB TA (as needed) ETSI EN 300328 2.4GHz ETSI EN 301893 5GHz ETSI EN 303687 (6GHz) EN301489-1 / 489-17 EN 300440 EN 303413 GNSS (GPS) IEC/EN 62368-1 EN 60601-1-1, EN60601-1-2
Warranty	Limited lifetime warranty. See the warranty duration.

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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