HPE Aruba Networking 740 Series Campus Access Points



What's new

- High performance compact Wi-Fi 7 access points with right-sized features ideal for high-density indoor deployments
- AI-driven orchestration and management with HPE Aruba Networking Central helps provide amazing wireless experiences
- Comprehensive triband coverage across 2.4 GHz, 5 GHz, and 6 GHz and delivers up to 9 Gbps maximum tri-band aggregate data rate
- Seamlessly onboard IoT devices with flexible integrated IoT radio that can be configured for Bluetooth or 802.15.4/Zigbee operation
- Fast 5 Gbps Ethernet wired

Overview

The HPE Aruba Networking 740 Series Campus Access Points are high performance Wi-Fi 7 access points designed to deliver high-capacity and secure Wi-Fi ideal for demanding indoor use cases. Leveraging the Wi-Fi 7 standard, this series provides the ideal combination of high end performance with rightsized features to enhance security, support IoT devices, and provide accurate location-aware capabilities.

HPE Aruba Networking Central helps drive efficient operations and provides AI-automation and machine learning (ML) insights for fine-tuned wireless connectivity across diverse environments.

Future-proof with the 740 series that delivers up to 9 Gbps maximum tri-band aggregate data rate and goes beyond the standard with a built-in flexible IoT radio that supports Bluetooth or 802.15.4/Zigbee, a fast 5 GbE wired port, and AI-powered dynamic power save mode that helps reduce energy consumption. The 740 series is Wi-Fi CERTIFIED® and includes a limited lifetime warranty.

connectivity and conveniently powered by PoE

– Dynamic power save mode helps reduce energy consumption

Features

Rightsized Wi-Fi 7 with AI-driven Management

The HPE Aruba Networking 740 Series Campus Access Points, part of the low power indoor (LPI) device class, take advantage of the increased capacity of the 6 GHz band using three dedicated radios, which translates into high speeds, wider channels for multi-gigabit traffic, and less interference.

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

Supporting up to 160 MHz wide channels, the 740 series delivers up to 9 Gbps maximum tri-band aggregate data rate, using up to 4x4 MIMO radios (2x2: 2.4 GHz, 4x4: 5 GHz, and 4x4: 6 GHz).

Using powerful 4x4 MIMO radios, the 740 series can sustain 3- and 4-spatial stream data rates with supported clients.

Dynamic bandwidth adjustments support changing device density, enhanced roaming, and real-time channel assignments to mitigate co-channel interference and built-in filtering automatically reduces the impact of interference for better Wi-Fi experiences.

Comprehensive Security Built-in

The HPE Aruba Networking 740 Series Campus Access Points offer enhanced security with dynamic segmentation to 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.

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 help ensure devices are receiving proper policy enforcement and continuous monitoring.

To simplify policy enforcement, the 740 series uses 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, these APs include a built-in TPM for secure storage of credentials and keys, and boot code.

Simple and Flexible IoT Platform

The HPE Aruba Networking 740 Series Campus Access Points can serve as flexible IoT platforms that bolster network security and provide coverage for broad range of IoT devices without the need for network overlays for IoT devices.

HPE Aruba Networking Central IoT operations unifies 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.

A single, flexible, integrated IoT radio supports either BLE or 802.15.4/Zigbee operation to simplify deploying and managing IoT devices.

A USB port supports additional connectivity to a wider range of IoT devices.

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

Location Services and Energy Saving

The HPE Aruba Networking 740 Series Campus Access Points help organizations deliver precision indoor location services by supporting FTM 802.11az for sub-1 meter accuracy.

Reduce energy use with the dynamic power save mode that enables the 740 series to sleep and then automatically wake up when connectivity demand arises, reducing power demands and lowering the energy footprint.

Intelligent power monitoring provides energy consumption insights as the access points continuously monitor and report hardware energy usage.

HPE Aruba Networking access points can also be configured to enable or disable capabilities based on available PoE power—ideal when wired switches have exhausted their PoE power budget.

Target wake time (TWT) establishes a schedule for when IoT clients need to communicate with an access point to help improve client power savings and reduce airtime contention.

Technical specifications	HPE Aruba Networking 740 Series Campus Access Points
Deployment	Indoor
Wi-Fi generation	Wi-Fi 7 (802.11be)
Wi-Fi radios	2x2: 2.4 GHz, 4x4: 5 GHz, and 4x4: 6 GHz
Radio configuration options	2.4 GHz + 5 GHz + 6 GHz
Max bandwidths and peak data rate per band	20 (2.4 GHz), 20/40/80 (5 GHz), 20/40/80/160 (6 GHz), and maximum peak data rate 9 Gbps
Wi-Fi antenna	AP-745: Integrated downtilt omnidirectional antennas for 4x4 (2x2 on 2.4 GHz) MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the access point (AP). The downtilt angle gain is roughly 30° to 40°.
Ultra tri-band (UTB) filtering	No
IoT support	IEEE 802.15.4/Zigbee Bluetooth 5.4
Integrated sensor	No
Location services	802.11 FTM support
Cellular support	No
Wired network interface	Single 5 Gbps
MACsec support	No
Ports	E0: One Ethernet wired network port (RJ-45) U0: One USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) Kensington security slot
AP operating system support	HPE Aruba Networking Wireless Operating System 10
AP management	On-premises Public Cloud as a Service Virtual Private Cloud (VPC)
Certifications	UL2043 plenum rating Wi-Fi Alliance® Wi-Fi CERTIFIED® a, b, g, n, ac, 6, 7 WPA2 and WPA3 (Enterprise, Personal), Enhanced Open (OWE) WMM, W-Fi agile multiband Bluetooth SIG Ethernet Alliance (PoE, PD device, class 6)

Technical specifications	HPE Aruba Networking 740 Series Campus Access Points
Regulatory	FCC/ISED CE marked Low voltage directive 2014/35/EU UL/IEC/EN 62368-1, EN60601-1-2
Warranty	Limited lifetime warranty. See the warranty duration.
Shipping weight	AP-745 Single-Pack: 1.7 kg AP-745 Multi-Pack (5-Pack): 9.6 kg
Shipping dimensions	AP-745 Single-Pack: 252 mm x 267 mm x 86.9 mm AP-745 Multi-Pack (5-Pack): 462 mm x 269 mm x 296 mm

SKU overview

SKU	Description
S5Q94A	HPE Aruba Networking AP-745 (EG) Tri Radio 4x4/2x2 Wi-Fi 7 Internal Antennas Campus Access Point
S5Q97A	HPE Aruba Networking AP-745 (ID) Tri Radio 4x4/2x2 Wi-Fi 7 Internal Antennas Campus Access Point
S5Q95A	HPE Aruba Networking AP-745 (IL) Tri Radio 4x4/2x2 Wi-Fi 7 Internal Antennas Campus Access Point
S5Q96A	HPE Aruba Networking AP-745 (JP) Tri Radio 4x4/2x2 Wi-Fi 7 Internal Antennas Campus Access Point
S5R00A	HPE Aruba Networking AP-745 (RW) Tri Radio 4x4/2x2 Wi-Fi 7 Internal Antennas 5pk Campus Access Point
S5Q98A	HPE Aruba Networking AP-745 (RW) Tri Radio 4x4/2x2 Wi-Fi 7 Internal Antennas Campus Access Point
S5Q99A	HPE Aruba Networking AP-745 (RW1) Tri Radio 4x4/2x2 Wi-Fi 7 Internal Antennas Campus Access Point
S5R02A	HPE Aruba Networking AP-745 (US) Tri Radio 4x4/2x2 Wi-Fi 7 Internal Antennas 5pk Campus Access Point
S5R01A	HPE Aruba Networking AP-745 (US) Tri Radio 4x4/2x2 Wi-Fi 7 Internal Antennas Campus Access Point

Related Options

The following options are available for these series:

SKU	Description
Cables/Cable Kits	
R8L34A	HPE Aruba Networking AP-CBL-EXT10 10-pack CAT6A Ethernet Extension Cables
JY728A	HPE Aruba Networking AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable
R6Q99A	HPE Aruba Networking AP-MOD-SERU Micro-USB TTL3.3V to RJ45 RS232 AP Console Adapter Module
Enterprise Networking Products	
S1H25A	HPE Aruba Networking AP-730-CVR-20 Access Point 20-pack White Non-Glossy Snap-On Covers
S0J40A	HPE Aruba Networking AP-MNT-MP10-U Campus AP Universal 10-pack Mount Bracket Kit
Mounting Rack/Rail Options	
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
R6T34A	HPE Aruba Networking AP-MNT-MP10-B1 Campus AP 10-Pack 15/16 Adj 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
S4K79A	HPE Aruba Networking AP-MNT-U Campus Access Point Type U Universal Mount Bracket Kit
Power Management Options	
R6P67A	HPE Aruba Networking AP-POE-ATSR 1-Port Smart Rate 802.3at 30W Midspan Injector
S3J26A	HPE Aruba Networking AP-POE-BT10 1-port 10G 60W Midspan 802.3bt PoE Injector

Related Services

The following services are available for these series:

SKU	Description
Technology Services	
H04VHE	HPE Aruba Networking Foundational Care 1Y 4HR Exch AP-73x SVC
H04RSE	HPE Aruba Networking Foundational Care 1Y 4HR Exch AP-735 5pk SVC
H04WBE	HPE Aruba Networking Foundational Care 1Y 4HR Exch Vol T1 AP-73x SVC
H04SLE	HPE Aruba Networking Foundational Care 1Y 4HR Exch Vol T1 AP-735 5pk SVC
H04WCE	HPE Aruba Networking Foundational Care 1Y 4HR Exch Vol T2 AP-73x SVC
H04SME	HPE Aruba Networking Foundational Care 1Y 4HR Exch Vol T2 AP-735 5pk SVC
H04VFE	HPE Aruba Networking Foundational Care 1Y NBD Exch AP-73x SVC
H04RQE	HPE Aruba Networking Foundational Care 1Y NBD Exch AP-735 5pk SVC
H04VGE	HPE Aruba Networking Foundational Care 1Y NBD Exch HW Only AP-73x SVC
H04RRE	HPE Aruba Networking Foundational Care 1Y NBD Exch HW Only AP-735 5pk SVC
H04VWE	HPE Aruba Networking Foundational Care 1Y NBD Exch Vol T1 AP-73x SVC
H04SGE	HPE Aruba Networking Foundational Care 1Y NBD Exch Vol T1 AP-735 5pk SVC
H04VXE	HPE Aruba Networking Foundational Care 1Y NBD Exch Vol T2 AP-73x SVC
H04SHE	HPE Aruba Networking Foundational Care 1Y NBD Exch Vol T2 AP-735 5pk SVC
H04VLE	HPE Aruba Networking Foundational Care 3Y 4HR Exch AP-73x SVC
H04RWE	HPE Aruba Networking Foundational Care 3Y 4HR Exch AP-735 5pk SVC
H04WNE	HPE Aruba Networking Foundational Care 3Y 4HR Exch Vol T1 AP-73x SVC
H04SYE	HPE Aruba Networking Foundational Care 3Y 4HR Exch Vol T1 AP-735 5pk SVC
H04WQE	HPE Aruba Networking Foundational Care 3Y 4HR Exch Vol T2 AP-73x SVC
H04SZE	HPE Aruba Networking Foundational Care 3Y 4HR Exch Vol T2 AP-735 5pk SVC
H04VKE	HPE Aruba Networking Foundational Care 3Y NBD Exch AP-73x SVC
H04RVE	HPE Aruba Networking Foundational Care 3Y NBD Exch AP-735 5pk SVC
H04VJE	HPE Aruba Networking Foundational Care 3Y NBD Exch HW Only AP-73x SVC
H04RTE	HPE Aruba Networking Foundational Care 3Y NBD Exch HW Only AP-735 5pk SVC
H04WJE	HPE Aruba Networking Foundational Care 3Y NBD Exch Vol T1 AP-73x SVC
H04STE	HPE Aruba Networking Foundational Care 3Y NBD Exch Vol T1 AP-735 5pk SVC
H04WKE	HPE Aruba Networking Foundational Care 3Y NBD Exch Vol T2 AP-73x SVC
H04SVE	HPE Aruba Networking Foundational Care 3Y NBD Exch Vol T2 AP-735 5pk SVC
H04VTE	HPE Aruba Networking Foundational Care 5Y 4HR Exch AP-73x SVC
H04SDE	HPE Aruba Networking Foundational Care 5Y 4HR Exch AP-735 5pk SVC
H04XNE	HPE Aruba Networking Foundational Care 5Y 4HR Exch Vol T1 AP-73x SVC
H04TYE	HPE Aruba Networking Foundational Care 5Y 4HR Exch Vol T1 AP-735 5pk SVC
H04XQE	HPE Aruba Networking Foundational Care 5Y 4HR Exch Vol T2 AP-73x SVC

H04TZE	HPE Aruba Networking Foundational Care 5Y 4HR Exch Vol T2 AP-735 5pk SVC
H04VSE	HPE Aruba Networking Foundational Care 5Y NBD Exch AP-73x SVC
H04SCE	HPE Aruba Networking Foundational Care 5Y NBD Exch AP-735 5pk SVC
H04VRE	HPE Aruba Networking Foundational Care 5Y NBD Exch HW Only AP-73x SVC
H04SBE	HPE Aruba Networking Foundational Care 5Y NBD Exch HW Only AP-735 5pk SVC
H04XJE	HPE Aruba Networking Foundational Care 5Y NBD Exch Vol T1 AP-73x SVC
H04TTE	HPE Aruba Networking Foundational Care 5Y NBD Exch Vol T1 AP-735 5pk SVC
H04XKE	HPE Aruba Networking Foundational Care 5Y NBD Exch Vol T2 AP-73x SVC
H04TVE	HPE Aruba Networking Foundational Care 5Y NBD Exch Vol T2 AP-735 5pk SVC

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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