HPE Aruba Networking 730 Series Campus Access Points

HPE Aruba Networking AP-734 (RW) Tri Radio 2x2 Wi-Fi 7 External Antennas Campus Access Point (S1G32A)



What's new

- Wi-Fi 7 access points (APs) are ideal for enterprises, healthcare, LPV, education, retail, and industrial IoT deployments
- Comprehensive triband coverage across 2.4 GHz, 5 GHz, and 6 GHz delivers up to 9.3 Gbps maximum aggregate data rate
- Patented ultra tri-band (UTB) filtering improves the use of 5 GHz and 6 GHz bands

Overview

The HPE Aruba Networking 730 Series Campus Access Points go beyond the Wi-Fi 7 standard to improve wireless performance, strengthen network security, deliver precise location-based services, and act as a secure Internet of Things (IoT) platform, enabling enterprises to increase the value of their wireless investment and unlock operational efficiencies.

The 730 series includes unique ultra tri-band (UTB) filtering and dual 5 Gbps Ethernet ports to remove coverage gaps, provide greater resiliency, and deliver fast connectivity with enhanced security. HPE Aruba Networking Central provides intelligent automation, AI insights, and unified infrastructure management to help drive efficient IT operations. The 730 series includes a limited lifetime warranty.

- High-density IoT support with two integrated Bluetooth 5.4 and 802.15.4 radios for Zigbee support and two USB port extensions
- 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
- High availability with dual 5 Gbps ports for redundant Ethernet and power

Features

High Performance Wi-Fi 7

The HPE Aruba Networking 730 Series Campus Access Points are based on the IEEE 802.11be standard and designed to take advantage of the 6 GHz band through three dedicated radios, which translates into far greater speeds, wider channels for multigigabit traffic, and less interference.

This series delivers up to 9.3 Gbps maximum triband aggregate data rate by using three 2x2 MIMO radios (2.4 GHz, 5 GHz, and 6 GHz), and achieving capability of up to 14.4 Gbps maximum aggregate data rate using optional dual 5 GHz and 6 GHz radio modes.

Patented UTB filtering enables enterprises to take advantage of the high end of 5 GHz with the lower end of 6 GHz without creating coverage gaps or islands.

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.

High availability with two HPE Smart Rate Ethernet ports for hitless failover for both data and power. Configurable to 1 Gbps, 2.5 Gbps, or 5 Gbps (or 100 Mbps), these dual ports provide business continuity for mission-critical applications.

Simplified Access with Enhanced Security

The HPE Aruba Networking 730 Series Campus 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 secure and separated.

MACsec-capable 5GbE port extends wired Ethernet protection to the access point.

This series offers stronger encryption and authentication with WPA3, secure credentials/keys storage for guest access with Enhanced Open and user and IoT access policy enforcement firewalls (PEFs).

The APs simplify policy enforcement using the PEF to encapsulate traffic from the access point to the gateway (or mobility controller) for end-to-end encryption and inspection.

For enhanced device assurance, HPE Aruba Networking 730 Series Campus Access Points include an installed TPM for secure storage of credentials, keys, and boot code.

AP as an IoT platform

The HPE Aruba Networking 730 Series Campus 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.

The 730 series provides two built-in Bluetooth 5.4 and 802.15.4 radios for Zigbee support to simplify deploying and managing IoT-based location services, asset tracking services, security solutions, and IoT sensors. Two USB port extensions provide connectivity to a range of IoT devices.

Advanced IoT coexistence (AIC) feature uses built-in filtering to allow Wi-Fi and Bluetooth Low Energy (BLE)/Zigbee radios to operate at maximum capacity without the impact of interference.

HPE Aruba Networking Central IoT operations 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 to help non-Wi-Fi device onboarding and data collection.

HPE Aruba Networking Central client insights uses deep packet inspection to provide additional context and behavioral information that helps verify devices are receiving proper policy enforcement and continuously monitors for rogue devices.

Energy Saving and Self-locating Access Points

The HPE Aruba Networking 730 Series Campus Access Points help organizations reduce energy consumption and deliver precision indoor location services with the APs that serve as reference points for client devices and other technologies using fine time measurement.

The 730 series offers precision locationing with support of FTM 802.11az for sub-1 meter accuracy and built-in GNSS receiver for high accuracy indoor location measurements.

Built-in barometric sensor for altitude locationing within multistory buildings provides floor-level mappings.

AI-powered dynamic power save mode enables the HPE Aruba Networking 730 Series Campus Access Points to automatically wake up at a schedule when connectivity demand arises, reducing power demands and lowering the energy footprint to align with the organization's sustainability initiatives.

The target wake time (TWT) establishes a schedule for clients to communicate with an AP to help improve client power savings and reduce airtime contention. Intelligent power monitoring (IPM) provides energy consumption insights as APs continuously monitor and report hardware energy usage.

Technical specifications	HPE Aruba Networking AP-734 (RW) Tri Radio 2x2 Wi-Fi 7 External Antennas Campus Access Point
Product Number	S1G32A
Deployment	Indoor
Wi-Fi generation	Wi-Fi 7 (802.11be)
Wi-Fi radios	Triple 2x2
Radio configuration options	2.4 GHz + 5 GHz + 6 GHz
Max bandwidths and peak data rate per band	20/40 (2.4 GHz), 20/40/80/160 (5 GHz), 20/40/80/160/320 (6 GHz), maximum peak data rate 14.4 Gbps
Wi-Fi antenna	Two sets of two (female) RP-SMA connectors for external antennas (A0 and A1 corresponding with radio chains 0 and 1 for the 2.4 GHz and 5 GHz radios, and B0 and B1 corresponding with radio chains 0 and 1 for the 6 GHz radio). Worst-case internal loss between radio interface and external antenna connectors: 0.8 dBi in 2.4GHz, 1.2 dBi in 5 GHz, and 1.2 dBi in 6 GHz.
Ultra tri-band (UTB) filtering	Yes
IoT support	Dual BLE and IEEE 802.15.4/Zigbee Dual USB
Integrated sensor	Barometric sensor
Location services	802.11 FTM support GNSS receiver BLE channel sounding
Cellular support	USB LTE modem (sold separately)
Wired network interface	2 x 5GbE
MACsec support	Yes
Ports	E0, E1: Two Ethernet wired network ports (RJ-45) U0, U1: Two USB 2.0 host interfaces (Type A connector) Kensington security slot Serial console interface (proprietary, micro-B USB physical jack)
AP operating system support	HPE Aruba Networking Wireless Operating System 10
AP management	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service

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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, WMM-PS, W-Fi agile multiband Bluetooth SIG Ethernet Alliance (PoE, PD device, class 5)
Regulatory	FCC/ISED CE Marked Low Voltage Directive 2014/35/EU UL/IEC/EN 62368-1 EN 60601-1-2 For more country-specific regulatory information and approvals, contact your HPE representative.
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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PSN1014839144KREN, September 23, 2026.

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