7 reasons to adopt HPE Aruba Networking 730 Series Wi-Fi 7 APs

Announcing the new 730 Series APs that deliver more

HPE Aruba Networking's new enterprise Wi-Fi 7 access points (APs) go beyond the latest standard to maximize wireless performance, strengthen network security, enhance location-based services, and act as a secure IoT platform, enabling enterprises to maximize the value of their wireless investment and unlock operational efficiencies. The idea that APs can do more than just route traffic is a core part of our product philosophy, and we have consistently expanded on that over multiple Wi-Fi generations. We are proud to continue our innovation with the introduction of the HPE Aruba Networking 730 Series Campus Access Points that support Wi-Fi 7 and work with HPE Aruba Networking Central running HPE Aruba Networking Wireless Operating System AOS-10.

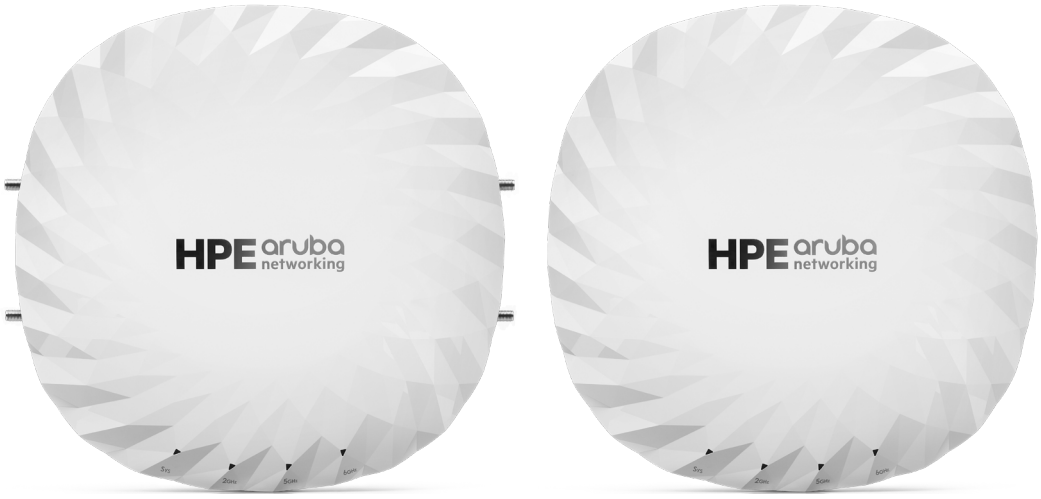

Figure 1. HPE Aruba Networking 730 Series Access Points

7 reasons to adopt our 730 Series APs

1. Maximize performance with radio and 6 GHz flexibility: The biggest advance in recent Wi-Fi, for both Wi-Fi 6E and Wi-Fi 7, has been regulatory approvals that enable use of the 6 GHz band—more than doubling the capacity. The new 730 Series APs can make even greater use of the 6 GHz band by using the flexible tri-band radio configuration that allows repurposing the 2.4 GHz radio as a second 6 GHz radio (or 5 GHz radio).

In addition, the 730 Series APs use patented ultra tri-band filtering (UTB)—originally developed for the 650 Series APs and unique to HPE Aruba Networking—to enable simultaneous use of the upper 5 GHz and lower 6 GHz channels without causing interference. This capability delivers up to 30% more channels to support demanding use cases and is especially critical in certain geographies where the 6 GHz band is restricted. Now organizations don't have to choose the top of 5 GHz or the bottom of 6 GHz—they can use both.

2. Antenna flexibility: Unlike other vendor products that either lack external antenna support or force the customer into a single configuration, the AP-734 flexible external antenna connectivity adapts to any physical environment making these APs a great fit for a variety of verticals and any physical environment. Enterprises can opt for the AP-735 with internal antennas or the AP-734 AP with integrated, non-permanent external antennas.

3. Enhanced wireless security: Building on an extensive list of wireless security features, we are bringing MACsec[1], an Ethernet industry security protocol to wireless—with new link level encryption capabilities, extending wired data protection to the AP. We are also highlighting Personal Wireless Networks in HPE Aruba Networking Central to provide personalized, secure, self-service onboarding of user devices—most applicable for students in residence halls on college campuses, apartment buildings, or in hospitality use cases.

[1] Coming in the next software release.

4. Double support for IoT and 2x the AP processing power: The 730 Series APs double the IoT capabilities to reinforce the use of the AP as an IoT platform compared to the HPE Aruba Networking 6xx Series APs. The 730 Series APs have dual IoT radios for BLE/Zigbee and dual USB ports for IoT protocols that require a dongle—enabling organizations who are adopting IoT to support the IoT devices they need, without having to make a protocol choice. The 730 Series APs also have 2x as much SDRAM and Flash memory than previous models, enabling pre-processing of IoT data using containers running on the APs themselves rather than requiring a VM running on an appliance. This means that IoT traffic can be captured, transformed, routed, and acted on via applications that run on the AP, reducing the need for external servers to perform this function (for example, opening a door lock based on a decision made not in the cloud, but on the AP.)

5. Precision location services: Building upon the 6xx Series APs' embedded GNSS (GPS), we added a new barometric sensor that provides the third dimension of height to location information—enabling the 730 Series APs to determine floor level and automatically display AP location within the new HPE Aruba Networking Central Floor Plan map in 3D. The 730 Series APs are the only enterprise AP that use the latest Wi-Fi location standard (802.11az) to deliver sub-1 meter precision and support BLE 5.4 for bi-directional IoT location data, which can boost user engagement and track high-value assets. This level of precision is unique in the industry and makes location-based applications richer and more effective. For example, if there is an emergency, the precise location information can be made readily available to the device for timely first-responder action.

6. Sustainability and energy savings: With sustainability top of mind for many organizations, a new AI-powered, dynamic power save mode identifies the AP duty cycle to recommend which APs can be powered down, without compromising the required connectivity. This capability replaces manual calendar scheduling in Central and helps to lower energy footprint and costs for enterprises.

7. APs are integral to AI infrastructure: Leveraging IoT to enable business use cases is growing, and additionally, IoT devices are now an important source of both AI training and inference data. The bigger and more diverse the AI data lake, the more effective the AI solutions will be. With expanding IoT connectivity and local processing options, the 730 Series APs become an integral part of an organization's AI infrastructure.

And if you need another reason, HPE Aruba Networking Central and the HPE GreenLake Platform make it easier to manage our Wi-Fi 7 APs from Day 0 to Day N. As the software to complement our hardware, HPE Aruba Networking Central manages your wireless network from IoT operations to Personal Wireless Network capabilities to AP floor plans. Power profiles can be displayed in the Central dashboard as well as in the Sustainability Information Center in the GreenLake Platform—enabling control over resource consumption through real-time measurement and providing in-depth and ongoing carbon footprint measurement, data analysis, and recommendations.

7 ways 730 Series APs deliver business value

The 730 Series APs go beyond the standard to deliver value today and in the future. Organizations can:

1. Maximize their investment by leveraging the AP for more than wireless connectivity.

2. Deliver great Wi-Fi experiences and reliability for demanding applications and IoT use cases.

3. Realize cost savings by using the AP as an IoT platform, reducing the need for IoT overlay networks.

4. Create new location-aware use cases and experiences to support the business.

5. Support sustainability efforts with an AP that intelligently powers off when not being used.

6. Integrate and enrich AI training and workflows by processing IoT data at the point of capture in real time.

7. Enhance security by delivering additional encryption security features to the wireless edge.

7 places to learn more

Learn more about the HPE Aruba Networking Wi-Fi 7 solution with the links below.

- Press release
- Announcement blog
- 730 Series AP web page
- 730 Series AP datasheet
- AP as an IoT Platform Solution Overview
- What is Wi-Fi 7?
- AOS-10 At A Glance

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