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HPE Aruba Networking 730 Series Campus Access Points QuickSpecs

Fast, Resilient, High Density, and Secure Wi-Fi 7 Connectivity

For enterprises looking for to deliver secure, high performance Wi-Fi to users and Internet of Things (IoT) devices, the HPE Aruba Networking 730 Series Campus Access Points go beyond the Wi-Fi 7 standard to take full advantage of the 6 GHz band, connect more IoT devices, strengthen security across wired and wireless, and enable highly accurate location aware capabilities. HPE Aruba Central helps drive efficient operations and provides AI-automation and machine learning (ML) insights for improved wireless connectivity.

Overview

Unique to HPE Aruba Networking, the 730 Series access points include ultra tri-band (UTB) filtering and dual 5 Gbps Ethernet ports to help eliminate coverage gaps, provide greater resiliency, and deliver fast, secure connectivity.



HPE Aruba Networking 730 Series Campus Access Points

Key Features

- Wi-Fi 7 (802.11be) brings multilink operation (MLO) for channel aggregation and 4K QAM for higher throughput and lower latency
- Unleashes the 6 GHz band to more than double the available capacity
- Comprehensive tri-band coverage across 2.4 GHz, 5 GHz, and 6 GHz to deliver 9.3 Gbps maximum tri-band aggregate data rate
- Capable of up to 14.4 Gbps maximum aggregate data rate using optional dual 5 GHz and 6 GHz radio modes
  Notes: Feature available in a future software release
- Up to three 320 MHz channels in 6 GHz support low-latency, bandwidth-hungry applications like high-definition video and augmented reality/virtual reality applications
- Patented UTB filtering enables 5 GHz and 6 GHz to operate without restrictions or interference
- High availability with dual 5 Gbps ports for redundant Ethernet and power
- The built-in GNSS receiver, barometric pressure sensor, and intelligent software enable access points to self-locate and act as reference points for accurate indoor location measurements
- MACsec support[1] extends wired Ethernet protection to the access point
  Notes: [1]Feature available in a future software release

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 730 Series is supported by HPE Aruba Networking Wireless Operating System (AOS-10)

More Capacity and Wider Channels

The HPE Aruba Networking 730 Series Campus APs are designed to take advantage of the 6 GHz band via three dedicated radios, which translates into far greater speeds, wider channels for multi-gigabit traffic, and less interference. It delivers up to 9.3 Gbps maximum tri-band aggregate data rate, using three 2x2 MIMO radios (2.4 GHz, 5 GHz, and 6 GHz).

To further increase the wireless capacity, the 2.4 GHz radio can be reconfigured to deliver an optional dual-5 GHz or dual-6 GHz mode, which further increases the maximum aggregate data rate to 14.4 Gbps in dual 6 GHz mode.
Notes: Feature available in a future software release

Band	Channel Bandwidth	Peak Data Rate
6GHz	320 MHz	5.8 Gbps
5GHz	160 MHz	2.9 Gbps
2.4GHz	20 MHz 40 MHz	344 Mbps 688 Mbps
Total using 2.4 GHz with 20 MHz		9.0 Gbps
Total using 2.4 GHz with 40 MHz		9.3 Gbps
Total using dual 6 GHz (no 2.4 GHz)[1]		14.4 Gbps
Notes: [1]Feature available in a future software release		

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 wide 320 MHz bandwidth channels, multi-link operation (MLO) for channel aggregation across different bands and failover, and 4096 QAM (4k QAM) for higher peak data rates.

Advantages of 6GHz

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 three 320 MHz channels or 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.

Device Class Support

HPE Aruba Networking AP-735 Campus APs with integrated antennas are part of the Low Power Indoor (LPI) device class. This fixed indoor-only class uses lower power levels and does not require an Automated Frequency Coordination service (AFC) to manage incumbent outdoor services which is required for standard class APs. The AP-734 connectorized models will typically operate as Standard Power access points but may also be allowed to operate as Low Power Indoor devices in some countries.

Standard Features

Less Interference

HPE Aruba Networking 730 Series Campus APs include HPE Aruba Networking's patented Ultra Tri-band filtering, which enables enterprises to take advantage of the high end of 5 GHz with the lower end of 6 GHz without experiencing interference. Since there is only 50 MHz between 5 GHz and 6 GHz, without advanced filtering, enterprises would likely experience problems between the bands and would therefore be limited in the number of channels available. By applying advanced filtering capabilities, enterprises can fully utilize the available spectrum without creating coverage gaps or islands.

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 730 Series Campus APs are set up to automatically update regulatory rules once Wi-Fi 7 regulations have been approved and certified.

Business Continuity

The HPE Aruba Networking 730 Series Campus APs provide high availability with two HPE Smart Rate Ethernet ports for hitless failover for both data and power. Configurable to 1, 2.5, or 5 Gbps (or 100 Mbps), these dual ports provide business continuity for mission critical applications.

Extend the Benefits of Wi-Fi 6

The HPE Aruba Networking 730 Series Campus APs are based on the 802.11be standard, which means that all its efficiency and security enhancements are also available on the 6 GHz band. Wi-Fi 6 features such as Orthogonal Frequency Division Multiple Access (OFDMA), BSS coloring etc. are fully supported on all HPE Aruba Networking Wi-Fi 6E and Wi-Fi 7 access points as well.

Advantages of OFDMA

This capability allows HPE Aruba Networking APs 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 via smaller sub-carriers 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 ClientMatch technology eliminates sticky client issues by steering a client to the access point where it receives the best radio signal. Client Match steers traffic from the noisy 2.4 GHz band to the preferred 5 GHz or GHz band depending on client capabilities. 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. 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.

Standard Features

HPE Aruba Networking Advanced Cellular Coexistence (ACC)

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

AI-powered dynamic power save mode

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

Self-locating Access Points

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

As part of HPE Aruba Networking's 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 APs to share their location over the air and through cloud-based APIs, enables mobile devices to locate themselves and applications to support network analytics.

The HPE Aruba Networking 730 Series Campus Access Points supports FTM 802.11az for sub one-meter accuracy1, has a GNSS receiver built in for high accuracy indoor location measurements, and a built-in barometric sensor for altitude locationing within multistory buildings.

Access Points as Flexible and Secure IoT Platform

By combining IoT radios with a zero-trust network framework, the HPE Aruba Networking 730 Series Campus APs can serve as flexible IoT platforms that bolster network security, provide coverage for broad range of IoT devices, and eliminate the need for network overlays just for IoT devices.

The 730 Series includes two integrated Bluetooth 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. There are also two USB-port extensions to provide IoT connectivity to a wider 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 additional IT resources and can accelerate IoT initiatives.

In addition, Target Wake Time (TWT) establishes a schedule 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 available for APs running HPE Aruba Networking Wireless Operating System AOS-10 managed by HPE Aruba Networking Central 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 behavioral information that help ensure devices are receiving proper policy enforcement and continuously monitor for rogue devices.

Technology Partnerships

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

Security Built-In

The 730 Series APs includes 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 HPE Aruba Networking ClearPass Policy Manager.

MACsec

MACsec support extends wired Ethernet encryption to the AP 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 access points include an installed Trusted Platform Module (TPM). A TPM is a secure hardware component that performs cryptographic operations and stores sensitive keys to ensure platform integrity, secure boot, TPM-based identity binding for anti-counterfeiting and trusted attestation.

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 eliminates 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 reducing 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, AOS-10 provides the WLAN management and control to deliver greater scalability, security, and AI-powered optimization. Using AOS-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 APs and devices.

Flexible operation and management

Our unified APs can operate as standalone access points or with a gateway for greater scalability, security, and manageability. APs can be deployed using zero touch provisioning — without on-site technical expertise — for ease of implementation in branch offices and for remote work.

HPE Aruba Networking APs 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.

Standard Features

Simplified, flexible consumption

The HPE Aruba Networking 730 Series Campus Access Points require HPE Aruba Networking Central subscription-based licenses, which are purchased on a per-device basis for access points and gateways. 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 (AOS-10) is included in the subscription. Learn more about Central.

Summary

HPE Aruba Networking 730 Series Campus Access Points extend beyond the Wi-Fi 7 standard to increase 6 GHz capacity by up to 30%, connect 2x the IoT devices, strengthen security across wired and wireless and enable highly accurate location aware capabilities. Unique to HPE Aruba Networking, the HPE Aruba Networking Wireless Operating System (AOS-10) based 730 Series access points include UTB filtering and dual 5 Gbps Ethernet ports to help eliminate coverage gaps, provide greater resiliency, and deliver fast, secure connectivity.

Configuration Information

Access Point Models

735 Internal Antenna Access Points

Description	SKU
HPE Aruba Networking AP-735 (EG) Tri Radio 2x2 Wi-Fi 7 Internal Antennas Campus Access Point	S1G39A
HPE Aruba Networking AP-735 (IL) Tri Radio 2x2 Wi-Fi 7 Internal Antennas Campus Access Point	S1G40A
HPE Aruba Networking AP-735 (JP) Tri Radio 2x2 Wi-Fi 7 Internal Antennas Campus Access Point	S1G41A
HPE Aruba Networking AP-735 (RW) Tri Radio 2x2 Wi-Fi 7 Internal Antennas Campus Access Point	S1G42A
HPE Aruba Networking AP-735 (US) Tri Radio 2x2 Wi-Fi 7 Internal Antennas Campus Access Point	S1G43A
HPE Aruba Networking AP-735 (ID) Tri Radio 2x2 802.11be Wi-Fi 7 Internal Antennas Campus AP	S5E15A

735 Internal Antenna Access Points - 5-Pack Eco-Friendly Bundle

Description	SKU
HPE Aruba Networking AP-735 (RW) Tri Radio 2x2 Wi-Fi 7 Internal Antennas 5-pack Campus Access Point	S0H12A
HPE Aruba Networking AP-735 (US) Tri Radio 2x2 Wi-Fi 7 Internal Antennas 5-pack Campus Access Point	S0H13A

734 External Antenna Campus Access Points

Description	SKU
HPE Aruba Networking AP-734 (EG) Tri Radio 2x2 Wi-Fi 7 External Antennas Campus Access Point	S1G29A
HPE Aruba Networking AP-734 (IL) Tri Radio 2x2 Wi-Fi 7 External Antennas Campus Access Point	S1G30A
HPE Aruba Networking AP-734 (JP) Tri Radio 2x2 Wi-Fi 7 External Antennas Campus Access Point	S1G31A
HPE Aruba Networking AP-734 (RW) Tri Radio 2x2 Wi-Fi 7 External Antennas Campus Access Point	S1G32A
HPE Aruba Networking AP-734 (US) Tri Radio 2x2 Wi-Fi 7 External Antennas Campus Access Point	S1G33A

735 Internal Antenna Access Points - TAA Models

Description	SKU
HPE Aruba Networking AP-735 (EGF1) Tri Radio 2x2 Wi-Fi 7 Internal Antennas TAA Campus Access Point	S1G44A
HPE Aruba Networking AP-735 (ILF1) Tri Radio 2x2 Wi-Fi 7 Internal Antennas TAA Campus Access Point	S1G45A
HPE Aruba Networking AP-735 (JPF1) Tri Radio 2x2 Wi-Fi 7 Internal Antennas TAA Campus Access Point	S1G46A
HPE Aruba Networking AP-735 (RWF1) Tri Radio 2x2 Wi-Fi 7 Internal Antennas TAA Campus Access Point	S1G47A
HPE Aruba Networking AP-735 (USF1) Tri Radio 2x2 Wi-Fi 7 Internal Antennas TAA Campus Access Point	S1G48A

734 External Antenna Campus Access Points - TAA Models

Description	SKU
HPE Aruba Networking AP-734 (EGF1) Tri Radio 2x2 Wi-Fi 7 External Antennas TAA Campus Access Point	S1G34A
HPE Aruba Networking AP-734 (ILF1) Tri Radio 2x2 Wi-Fi 7 External Antennas TAA Campus Access Point	S1G35A

Configuration Information

HPE Aruba Networking AP-734 (JPF1) Tri Radio 2x2 Wi-Fi 7 External Antennas TAA Campus Access Point	S1G36A
HPE Aruba Networking AP-734 (RWF1) Tri Radio 2x2 Wi-Fi 7 External Antennas TAA Campus Access Point	S1G37A
HPE Aruba Networking AP-734 (USF1) Tri Radio 2x2 Wi-Fi 7 External Antennas TAA Campus Access Point	S1G38A

Mount Accessories

AP Mount Kits

Description	SKU
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
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
HPE Aruba Networking AP-MNT-U Campus Access Point Type U Universal Mount Bracket Kit	S4K79A

Antennas

Antennas

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-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 AP-ANT-340 Cabled RP-SMA Tri-Band 4x4 Downtilt Omni Ceiling Antenna	S1F82A
HPE Aruba Networking AP-ANT-345 Cabled RP-SMA Tri-Band 4x4 Medium Gain Directional Panel Antenna	S1F83A

Configuration Information

HPE Aruba Networking AP-ANT-348 Cabled RP-SMA Tri-Band 4x4 High Gain Directional Panel Antenna	S1F84A

Antenna Mount Kits

For 734 Series Std (Min 0 // max 2) User Selection (min 0 // max 2)

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

Power Options

Power Options

Description	SKU
HPE Aruba Networking AP-AC2-12B 12V/48W AC/DC Desktop Style Power Adapter with 2.1/5.5mm Connector	R3K00A
HPE Aruba Networking AP-POE-ATSR 1-Port Smart Rate 802.3at 30W Midspan Injector	R6P67A
HPE Aruba Networking AP-POE-BTSR 1-Port Smart Rate 802.3bt 60W Midspan Injector	R1C73A
HPE Aruba Networking AP-POE-BT10 1-port 10G 60W Midspan 802.3bt PoE Injector	S3J26A

Accessories

Snap-on Covers

Description	SKU
HPE Aruba Networking AP-730-CVR-20 Access Point 20-pack White Non-Glossy Snap-On Covers	S1H25A

Other Accessories

Description	SKU
HPE Aruba Networking AP-CBL-EXT10 10-pack CAT6A Ethernet Extension Cables	R8L34A
HPE Aruba Networking AP-CBL-SERU Micro-USB TTL3.3V to USB2.0 AP Console Adapter Cable	JY728A
HPE Aruba Networking AP-MOD-SERU Micro-USB TTL3.3V to RJ45 RS232 AP Console Adapter Module	R6Q99A
HPE Aruba Networking AP-MNT-MP10-AP Campus AP 10-Pack Mount Brace Spare Kit	S0J39A

Software

HPE Aruba Networking Central

Cloud Services / Access Point Foundation Subscriptions

HPE Aruba Networking Central AP Foundation 1-year Subscription E-STU	Q9Y58AAE
HPE Aruba Networking Central AP Foundation 3 year Subscription E-STU	Q9Y59AAE
HPE Aruba Networking Central AP Foundation 5 year Subscription E-STU	Q9Y60AAE
HPE Aruba Networking Central AP Foundation 7 year Subscription E-STU	Q9Y61AAE
HPE Aruba Networking Central AP Foundation 10 year Subscription E-STU	Q9Y62AAE

Configuration Information

Cloud Services / Access Point Advanced Subscriptions

HPE Aruba Networking Central AP Advanced 1 year Subscription E-STU	Q9Y63AAE
HPE Aruba Networking Central AP Advanced 3 year Subscription E-STU	Q9Y64AAE
HPE Aruba Networking Central AP Advanced 5 year Subscription E-STU	Q9Y65AAE
HPE Aruba Networking Central AP Advanced 7 year Subscription E-STU	Q9Y66AAE
HPE Aruba Networking Central AP Advanced 10 year Subscription E-STU	Q9Y67AAE

On-Prem Services / Access Point Foundation Subscriptions

HPE Aruba Networking Central on Prem AP Foundation 1 year Subscription E-STU	R6U63AAE
HPE Aruba Networking Central on Prem AP Foundation 3 year Subscription E-STU	R6U64AAE
HPE Aruba Networking Central on Prem AP Foundation 5 year Subscription E-STU	R6U65AAE
HPE Aruba Networking Central on Prem AP Foundation 7 year Subscription E-STU	R6U66AAE
HPE Aruba Networking Central on Prem AP Foundation 10 year Subscription E-STU	R6U67AAE

On-Prem Services / Access Point Foundation Government Subscriptions

HPE Aruba Networking COP AP Foundation Government 1-year Subscription E-STU	S1P56AAE
HPE Aruba Networking COP AP Foundation Government 3-year Subscription E-STU	S1P57AAE
HPE Aruba Networking COP AP Foundation Government 5-year Subscription E-STU	S1P58AAE
HPE Aruba Networking COP AP Foundation 7-year Government Subscription E-STU	S1P59AAE
HPE Aruba Networking COP AP Foundation 10-year Government Subscription E-STU	S1P60AAE

On-Prem Services / Access Point Advanced Government Subscriptions

HPE Aruba Networking Central On-Premises Access Point Advanced 3-year Government Subscription E-STU	S1P97AAE
HPE Aruba Networking Central On-Premises Access Point Advanced 5-year Government Subscription E-STU	S1P98AAE

As-a-Service

HPE Aruba Networking Central

Cloud Services / Access Point Foundation Subscriptions

HPE Aruba Networking Central AP Foundation 1 year Subscription SaaS	Q9Y58AAS
HPE Aruba Networking Central AP Foundation 3 year Subscription SaaS	Q9Y59AAS
HPE Aruba Networking Central AP Foundation 5 year Subscription SaaS	Q9Y60AAS
HPE Aruba Networking Central AP Foundation 7 year Subscription SaaS	Q9Y61AAS
HPE Aruba Networking Central AP Foundation 10 year Subscription SaaS	Q9Y62AAS

Cloud Services / Access Point Advanced Subscriptions

HPE Aruba Networking Central AP Advanced 1 year Subscription SaaS	Q9Y63AAS
HPE Aruba Networking Central AP Advanced 3 year Subscription SaaS	Q9Y64AAS
HPE Aruba Networking Central AP Advanced 5 year Subscription SaaS	Q9Y65AAS
HPE Aruba Networking Central AP Advanced 7 year Subscription SaaS	Q9Y66AAS
HPE Aruba Networking Central AP Advanced 10 year Subscription SaaS	Q9Y67AAS

Technical Specifications

Hardware Variants

- HPE Aruba Networking AP-734: External antenna models
- HPE Aruba Networking AP-735: Internal antenna models

Wi-Fi Radio Specifications

- AP type: Indoor, tri radio, 2.4 GHz, 5 GHz and 6 GHz (concurrent) 802.11be 2x2 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: Two spatial stream MIMO for up to 2.9 Gbps wireless data rate with 2SS EHT160 802.11be client devices
- 6 GHz radio: Two spatial stream MIMO for up to 5.8 Gbps wireless data rate with 2SS EHT320 802.11be client devices
- MU-MIMO (downlink, uplink) is supported on all radios
- Up to 512 associated client devices per radio, and up to 16 BSSIDs per radio
- Supported frequency bands
  - 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
  - 5.850 to 5.895 GHz U-NII-4
  - 5.925 to 6.425 GHz U-NII-5
  - 6.425 to 6.525 GHz U-NII-6
    Notes: The U-NII-6 band is not supported when the AP-735 is configured for dual-6 GHz mode
  - 6.525 to 6.875 GHz U-NII-7
  - 6.875 to 7.125 GHz U-NII-8
- When the AP is configured in dual-5GHz mode, one radio covers U-NII-1 and -2, while a second radio covers U-NII-2E, -3/ISM and -4. The third radio covers the full 6GHz band.
  Notes: Feature available in a future software release
- When the AP is configured in dual-6GHz mode, one radio covers U-NII-5, while a second radio covers U-NII-7 and -8. The third radio covers the full 5GHz band.
  Notes: Feature available in a future software release
- 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
- 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

Technical Specifications

- 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: EHT20/40/80/160/320
- 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 300 (MCS0 to MCS15, HT20 to HT40), 400 with 256-QAM (proprietary extension)
  - 802.11ac: 6.5 to 867 (MCS0 to MCS9, NSS = 1 to 2, VHT20 to VHT80); 1,083 with 1024-QAM (MCS10 and MCS11, proprietary extension)
  - 802.11ax: 7.3 to 2,402 (MCS0 toMCS11, NSS = 1 to 2, HE20 to HE160)
  - 802.11be: 7.3 to 5,765 (MCS0 to MCS13, NSS = 1 to 2, EHT20 to EHT320)
- 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): +21 dBm (18 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
- Ultra Tri-Band (UTB) enables ultimate flexibility in 5 GHz and 6 GHz channel selection without performance degradation
- 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
  Notes: 802.11az support available in a future software release

Wi-Fi Antennas

- AP-734: Two sets of two (female) RP-SMA connectors for external antennas (A0 & A1 corresponding with radio chains 0 and 1 for the 2.4 GHz and 5 GHz radios, and B0 & B1 corresponding with radio chains 0 and 1 for the 6 GHz radio). Worst-case internal loss between radio interface and external antenna connectors: 0.8dB in 2.4 GHz, 1.2dB in 5 GHz, and 1.2dB in 6 GHz.
- AP-735: Integrated downtilt omni-directional antennas for 2x2 MIMO with peak antenna gain of 5.1dBi in 2.4 GHz, 5.5dBi in 5 GHz and 5.3dBi in 6 GHz. Built-in antennas are optimized for horizontal ceiling mounted orientation of the access point. The downtilt angle for maximum gain is roughly 30 to 40 degrees.
  - Combining the patterns of each of the antennas of the MIMO radios, the peak gain of the combined, average pattern is 3.9dBi in 2.4 GHz, 4.1dBi in 5 GHz and 3.9dBi in 6 GHz.

Other interfaces and features

- E0, E1: Two Ethernet wired network ports (RJ-45)
  - Auto-sensing link speed (100/1000/2500/5000 BASE-T) and MDI/MDIX
  - PoE-PD: 48Vdc (nominal) 802.3at/bt PoE (class 4 or higher) - 802.3az Energy Efficient Ethernet (EEE)
  - 802.3az Energy Efficient Ethernet (EEE)
  - Link aggregation (LACP) support between both network ports for redundancy and increased capacity
  - MACsec support on E0 (802.1ae)

    Notes: Feature available in a future software release
- DC power interface: 12Vdc (nominal, +/- 5%), accepts 2.1mm/5.5mm center-positive circular plug with 9.5mm length
- U0, U1: Two USB 2.0 host interfaces (Type A connector)
  - Capable of sourcing up to 2A/10W to one or two attached devices
- Flexible dual IOT radio options: BLE 5.4 (w/HADM), plus either BLE 5.4 or 802.15.4/Zigbee:
  - BLE: BT5.4 with up to 10dBm transmit power (class 1) and -105dBm receive sensitivity (125 kbps)
  - IEEE 802.15.4/Zigbee: up to 10dBm transmit power and -100dBm receive sensitivity (250 kbps)
  - Integrated omnidirectional antenna with roughly 30 to 40 degrees downtilt and peak gain of 4.7dBi (AP-734) or 5.1dBi (AP-735)
- GNSS L1 (1575.42 MHz) and L5 (1176.45 MHz) receiver supporting GPS, Galileo, GLONASS, and BeiDou signal
  - Receive sensitivity: -160dBm (tracking)
  - Integrated omnidirectional antenna with roughly 30 to 40 degrees downtilt and peak gain of 2.8dBi (AP-734) or 4.4dBi (AP-735)
- 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 device assurance
- Visual indicators (four multi-color LEDs): for System (1x) and Radio (3x) status
- Reset button: factory reset, LED mode control (normal/off)
- Serial console interface (proprietary, micro-B USB physical jack)
- Kensington security slot
- Automatic thermal shutdown and recovery function

Default PoE Power Modes (IPM disabled) - Enable the IPM feature to manage or avoid restrictions.			
Single PoE source	**Class 5 (802.3bt)**	**Class 4 (802.3at)**	**Class 3 (802.3af)**
Available power budget	40W	25.5W	13.9W
AP power mode	Unrestricted	Restricted	Staging support only, no radios will be enabled
Worst-case power consumption	36W	24W	
USB ports	Enabled	Disabled	
Ethernet ports	Both ports enabled	Both ports enabled	
MIMO operation	2x2	2x2	
Reduced max RF transmit power	0 dB	0 dB	

Technical Specifications

Power sources and power consumption

- The access point supports direct DC power and Power over Ethernet (PoE) on port E0 and/or E1
- When both DC and PoE power sources are available, DC power takes priority over PoE
- When PoE power is supplied to both Ethernet ports, either port can be configured as the active power source
- Inactive/standby PoE power sources can be used to deliver hitless failover
- Power sources are sold separately; see the HPE Aruba Networking 730 Series Ordering Guide for details
- When powered by DC or 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 AP will disable the USB ports.
- 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):
  - DC powered: 20W/31W.
  - PoE powered: 24W/36W.
- This assumes that up to 10W is supplied to the attached USB device(s).
- Maximum (worst-case) power consumption in idle mode: 8W/19W (DC) or 12W/24W (PoE).
- Maximum (worst-case) power consumption in deep-sleep mode: 1.5W (DC) or 2.0W (PoE).

Mounting details

A mounting bracket has been pre-installed on the back of the AP. This bracket is used to secure the AP to any of the mount kits (sold separately); see the Configuration Information section in this document for details.

Mechanical specifications

- Dimensions/weight (HPE Aruba Networking AP-735; unit without mount bracket):
  - 240mm (W) x 240mm (D) x 56mm (H)
  - 1440g
- Dimensions/weight (AP-735; shipping):
  - 271mm (W) x 258mm (D) x 89mm (H)
  - 1830g

Environmental specifications

- Operating conditions
  - Temperature: 0C to +50C/+32F to +122F
  - Relative humidity: 5% to 95%
  - ETS 300 019 class 3.2 environments
  - AP is plenum rated for use in air-handling spaces
- Storage conditions
  - Temperature: -25C to +55C/-13F to +131F
  - Relative humidity: 10% to 100%
  - ETS 300 019 classes 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): 635 khrs (72 yrs) at +25C operating temperature (AP-735)

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, etc.). HPE Aruba Networking will continue to upgrade the software and regulatory restrictions that apply to these products to 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 Aruba Networking 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 via the host country's regulatory agencies for more.

Regulatory compliance

- 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, please see your HPE Aruba Networking representative.

Regulatory Model Numbers

- HPE Aruba Networking AP-734 (all models): APIN0734
- HPE Aruba Networking AP-735 (all models): APIN0735

Technical Specifications

Certifications

- UL2043 plenum rating
- Wi-Fi Alliance (WFA): 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)

Warranty

HPE Aruba Networking's hardware limited lifetime warranty.

Minimum Operating System Software Versions

- HPE Aruba Networking Wireless Operating System AOS 10.7.0.0

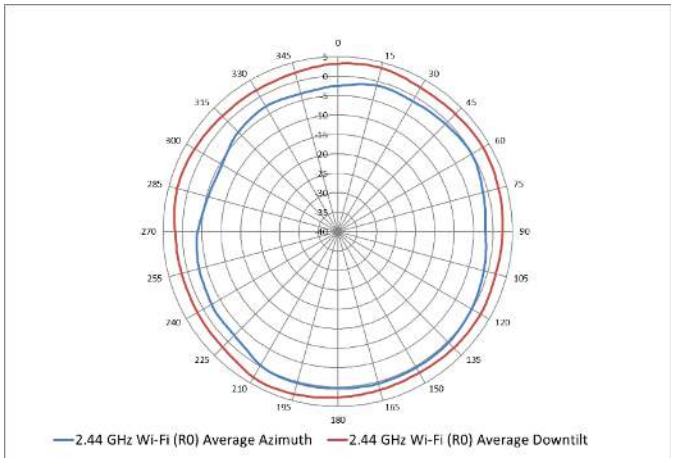
Technical Specifications

RF Performance Table		
Band, Rate	**Maximum Transmit Power (dBm) Per Transmit Chain**	**Receiver Sensitivity (dBm) Per Receive Chain**
2.4 GHz, 802.11b		
1Mbps	18.0	-96.0
11Mbps	18.0	-88.0
2.4 GHz, 802.11g		
6Mbps	18.0	-93.0
54Mbps	17.0	-74.0
2.4 GHz, 802.11n HT20		
MCS0	18.0	-93.0
MCS7	16.0	-74.0
2.4 GHz, 802.11ax HE20		
MCS0	18.0	-93.0
MCS11	14.0	-62.0
2.4 GHz, 802.11be EHT20		
MCS0	18.0	-93.0
MCS13	12.0	-58.0
5 GHz, 802.11a		
6Mbps	18.0	-92.0
54Mbps	16.0	-73.0
5 GHz, 802.11n HT20/HT40		
MCS0	18.0/18.0	-90.0/-89.0
MCS7	16.0/16.0	-73.0/-70.0
5 GHz, 802.11ac VHT20/VHT40/VHT80/VHT160		
MCS0	18.0/18.0/18.0/18.0	-90.0/-89.0/-86.0/-83.0
MCS9	14.0/14.0/14.0/14.0	-66.0/-63.0/-60.0/-57.0
5 GHz, 802.11ax HE20/HE40/HE80/HE160		
MCS0	18.0/18.0/18.0/18.0	-92.0/-89.0/-86.0/-83.0
MCS11	14.0/14.0/14.0/14.0	-61.0/-59.0/-56.0/-53.0
5 GHz, 802.11be EHT20/EHT40/EHT80/EHT160		
MCS0	18.0/18.0/18.0/18.0	-92.0/-89.0/-86.0/-83.0
MCS13	12.0/12.0/12.0/12.0	-56.0/-53.0/-49.0/-46.0
6 GHz, 802.11ax HE20/HE40/HE80/HE160		
MCS0	18.0/18.0/18.0/18.0	-90.0/-89.0/-86.0/-83.0
MCS11	14.0/14.0/14.0/14.0	-59.0/-58.0/-56.0/-54.0
6 GHz, 802.11be EHT20/EHT40/EHT80/EHT160/EHT320		
MCS0	18.0/18.0/18.0/18.0/18.0	-90.0/-89.0/-86.0/-83.0/-80.0
MCS13	12.0/12.0/12.0/12.0/12.0	-53.0/-52.0/-50.0/-47.0/-44.0

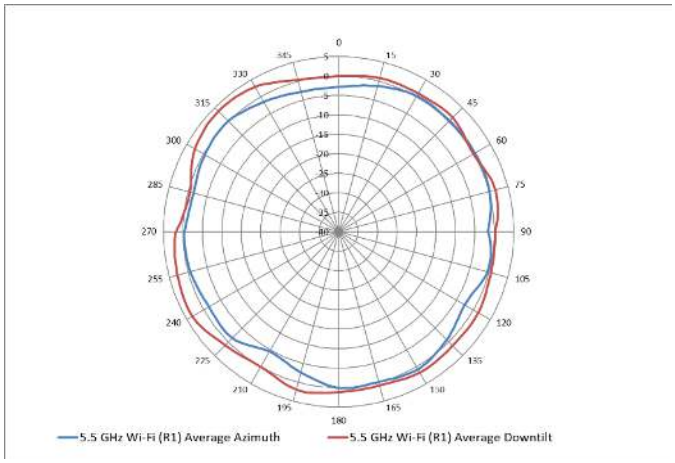
Wi-Fi Antenna Patterns AP-735

Horizontal planes (top view)

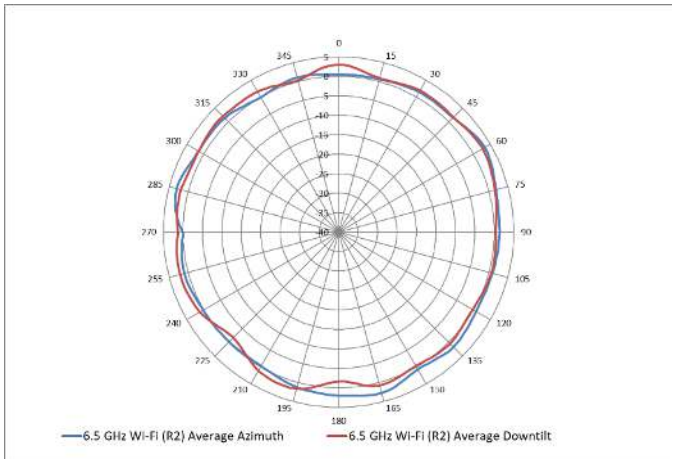
Showing both azimuth (0 degrees) and 30 degrees downtilt patterns (averaged patterns for all applicable antennas)



2.44 GHz Wi-Fi antenna patterns (horizontal)



5.5 GHz Wi-Fi antenna patterns (horizontal)

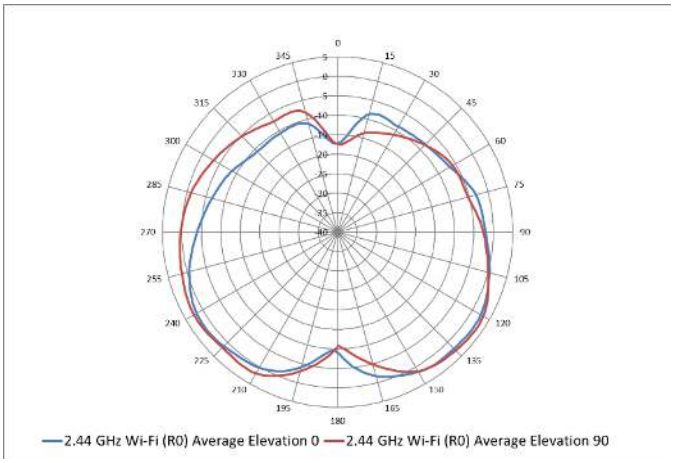


6.5 GHz Wi-Fi antenna patterns (horizontal)

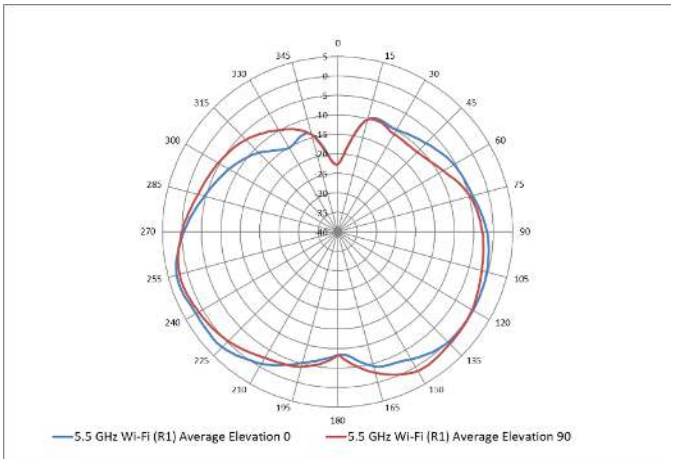
Technical Specifications

Vertical (elevation) Planes (side view, AP facing down)

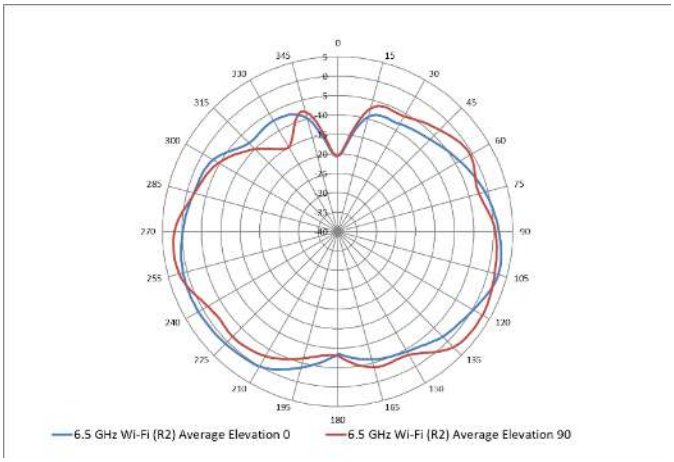
Showing side view with AP rotated 0 and 90 degrees (averaged patterns for all applicable antennas)



2.44 GHz Wi-Fi antennas patterns (vertical)



5.5 GHz Wi-Fi antenna patterns (vertical)



6.5 GHz Wi-Fi antennas patterns (vertical)

Summary of Changes

Date	Version History	Action	Description of Change
17-Aug-2026	Version 11	Changed	New Central SKUs were added in Configuration Information section: S1P97AAE, S1P98AAE.
06-Jul-2026	Version 10	Changed	Internal QS Updates: Survey Text link and portrait brand format update.
27-Feb-2026	Version 9	Changed	Rebranding applied to QuickSpecs.
08-Sep-2025	Version 8	Changed	Trusted Platform Module (TPM) information was updated in Standard Features section. Amount of associated client devices updated from 400 to 512 for Wi-Fi Radio Specifications in Technical Specifications section.
28-Jul-2025	Version 7	Changed	Update survey link.
23-Jun-2025	Version 6	Changed	Standard Features: Global Readiness and Business Continuity were updated. URL added in Simplified, flexible consumption. Technical Specifications: Wi-Fi Radio Specifications, Mounting details, and General regulatory statements were updated. Default PoE Power Modes table was updated, worst case power consumptions were added. Wi-Fi Antenna Patterns images were updated.
07-Apr-2025	Version 5	Changed	Overview, Standard Features, Configuration Information, and Technical Specifications sections were updated.
21-Jan-2025	Version 4	Changed	Standard Features section was updated.
02-Dec-2024	Version 3	Changed	Configuration Information section was updated.
19-Aug-2024	Version 2	Changed	Configuration Information section was updated.
01-Jul-2024	Version 1	New	New QuickSpecs

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