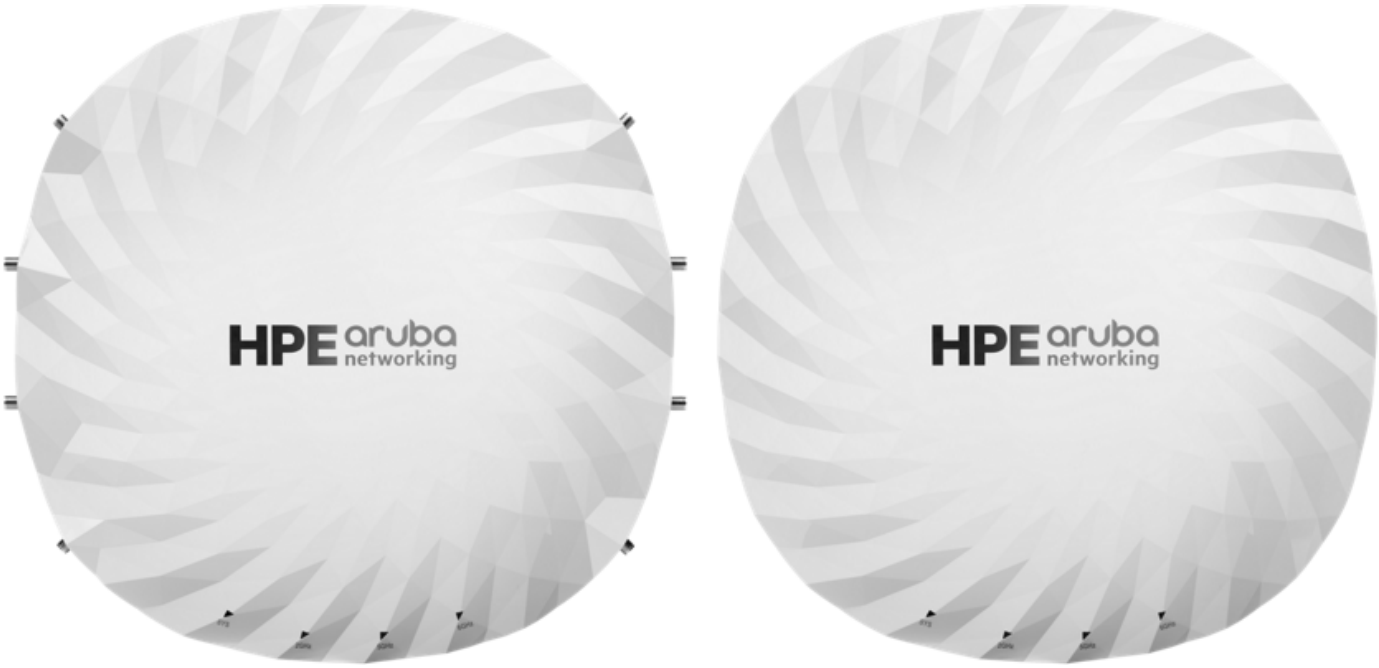
HPE Aruba Networking 750 Series Campus Access Points



What's new

- AI-powered Wi-Fi 7 access points are ideal for the most demanding enterprise, healthcare, LPV, education, retail, and industrial IoT deployments
- Three 4x4 MIMO radios provide comprehensive triband coverage across 2.4 GHz, 5 GHz, and 6 GHz for up to 18.7 Gbps maximum aggregate data rate
- High availability with dual 10 Gbps wired ports for redundant Ethernet and power, as well as the ability to combine power from both ports
- High-density IoT support with two integrated Bluetooth 5.4 and 802.15.4 radios for Zigbee support and two USB port extensions

Overview

HPE Aruba Networking 750 Series Campus Access Points are our flagship Wi-Fi 7 access points that deliver impressive wireless performance, strengthen network security, provide precise location-based services, and offer an Internet of Things (IoT) platform with enterprise-grade security, enabling enterprises to fully realize the value of their wireless investment and unlock operational efficiencies.

This high performance access point is designed with three 4x4 MIMO radios (2.4 GHz, 5 GHz, and 6 GHz), dual 10 Gbps Ethernet ports, dual IoT radios, built-in GNSS receiver, and patented ultra tri-band (UTB) filtering for high capacity, fast, and resilient connectivity with enhanced security. HPE Aruba Networking Central provide intelligent automation, AI insights, and unified infrastructure management to help drive efficient IT operations. The 750 series includes a limited lifetime warranty.

- 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

- Patented ultra tri-band (UTB) filtering enhances the use of 5 GHz and 6 GHz bands

Features

Flagship Wi-Fi 7 Performance

Based on the 802.11be standard, the HPE Aruba Networking 750 Series Campus Access Points are 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.

With three 4x4 MIMO radios (2.4 GHz, 5 GHz, and 6 GHz), the series delivers up to 18.7 Gbps maximum tri-band aggregate data rate and is capable of up to 28.8 Gbps maximum aggregate data rate using optional dual 5 GHz and 6 GHz radio modes.

Featuring high availability with two 10GbE ports for hitless failover for both data and power, allowing these dual ports to provide business continuity for mission-critical applications with flexibility to support speeds of 1, 2.5, 5, or 10 Gbps (or 100 Mbps).

Enhanced wireless experience with HPE Aruba Networking ClientMatch technology removes sticky client issues by steering a client to the access point where it receives the good radio signal.

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.

Simplified Access with Enhanced Security

The HPE Aruba Networking 750 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 protected and separated.

MACsec-capable 10GbE port extends wired Ethernet protection to the access point.

It offers stronger encryption and authentication with WPA3, protected credential/key storage for guest access with Enhanced Open (OWE), and user and IoT access policy enforcement firewalls (PFEs).

The APs simplify policy enforcement by using the 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 APs include an installed trusted platform module (TPM) for protected storage of credentials, keys, and boot code.

AP as an IoT Platform

The HPE Aruba Networking 750 Series Campus Access Points can serve as flexible IoT platforms that bolsters network security and provide coverage for a broad range of IoT devices without the need for network overlays.

It 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 BLE/Zigbee radios to operate at greater 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 help verify devices are receiving proper policy enforcement and continuously monitor for rogue devices.

Energy Saving and Self-locating

The HPE Aruba Networking 750 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.

It offers precision locationing with the support of FTM 802.11az for sub-1 meter accuracy and built-in GNSS receivers for high-accuracy indoor location measurements.

It has built-in barometric sensor for altitude locationing within multi-story buildings that provides floor-level mappings.

AI-powered dynamic power save mode enables the HPE Aruba Networking 750 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.

Target wake time (TWT) establishes a schedule for when clients need 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 750 Series Campus Access Points
Deployment	Indoor
Wi-Fi generation	Wi-Fi 7 (802.11be)
Wi-Fi radios	Triple 4x4
Radio configuration options	2.4 GHz + 5 GHz + 6 GHz 5 GHz + 5 GHz + 6 GHz 5 GHz + 6 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), and maximum peak data rate 28.8 Gbps
Wi-Fi antenna	HPE Aruba Networking 750 Series Campus Access Points models: AP-754: Two sets of four (female) RP-SMA connectors for external antennas AP-755: Integrated downtilt omnidirectional antennas for 4x4 (2x2 on 2.4 GHz) MIMO. Built-in antennas are optimized for horizontal ceiling-mounted orientation of the AP. The downtilt angle gain is roughly 30° to 40°.
Ultra tri-band (UTB) filtering	Yes
IoT support	Dual BLE and IEEE 802.15.4/Zigbee Dual USB
Integrated sensor	Barometric sensor
Location services	GNSS receiver 802.11 FTM support BLE channel sounding
Cellular support	USB LTE modem (sold separately)
Wired network interface	2 x 10GbE
MACsec support	Yes
Ports	E0, E1: Two Ethernet wired network ports (RJ-45) U0, U1: Two USB 2.0 host interfaces (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 10.7.0.0 or later
AP management	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service

Technical specifications	HPE Aruba Networking 750 Series Campus Access Points
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, Wi-Fi agile multiband Bluetooth SIG Ethernet Alliance (PoE, PD device, class 6)
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.

SKU overview

SKU	Description
S1G71A	HPE Aruba Networking AP-754 (EG) Tri Radio 4x4 Wi-Fi 7 External Antennas Campus Access Point
S1G76A	HPE Aruba Networking AP-754 (EG) Tri Radio 4x4 Wi-Fi 7 External Antennas TAA Campus Access Point
S1G72A	HPE Aruba Networking AP-754 (IL) Tri Radio 4x4 Wi-Fi 7 External Antennas Campus Access Point
S1G77A	HPE Aruba Networking AP-754 (IL) Tri Radio 4x4 Wi-Fi 7 External Antennas TAA Campus Access Point
S1G73A	HPE Aruba Networking AP-754 (JP) Tri Radio 4x4 Wi-Fi 7 External Antennas Campus Access Point
S1G78A	HPE Aruba Networking AP-754 (JP) Tri Radio 4x4 Wi-Fi 7 External Antennas TAA Campus Access Point
S1G74A	HPE Aruba Networking AP-754 (RW) Tri Radio 4x4 Wi-Fi 7 External Antennas Campus Access Point
S1G79A	HPE Aruba Networking AP-754 (RW) Tri Radio 4x4 Wi-Fi 7 External Antennas TAA Campus Access Point
S1G75A	HPE Aruba Networking AP-754 (US) Tri Radio 4x4 Wi-Fi 7 External Antennas Campus Access Point
S1G80A	HPE Aruba Networking AP-754 (US) Tri Radio 4x4 Wi-Fi 7 External Antennas TAA Campus Access Point
S1G81A	HPE Aruba Networking AP-755 (EG) Tri Radio 4x4 Wi-Fi 7 Internal Antennas Campus Access Point
S1G86A	HPE Aruba Networking AP-755 (EG) Tri Radio 4x4 Wi-Fi 7 Internal Antennas TAA Campus Access Point
S5E16A	HPE Aruba Networking AP-755 (ID) Tri Radio 4x4 Wi-Fi 7 Internal Antennas Campus Access Point
S1G82A	HPE Aruba Networking AP-755 (IL) Tri Radio 4x4 Wi-Fi 7 Internal Antennas Campus Access Point
S1G87A	HPE Aruba Networking AP-755 (IL) Tri Radio 4x4 Wi-Fi 7 Internal Antennas TAA Campus Access Point
S1G83A	HPE Aruba Networking AP-755 (JP) Tri Radio 4x4 Wi-Fi 7 Internal Antennas Campus Access Point
S1G88A	HPE Aruba Networking AP-755 (JP) Tri Radio 4x4 Wi-Fi 7 Internal Antennas TAA Campus Access Point
S0H10A	HPE Aruba Networking AP-755 (RW) Tri Radio 4x4 Wi-Fi 7 Internal Antennas 5-pack Campus Access Point
S1G84A	HPE Aruba Networking AP-755 (RW) Tri Radio 4x4 Wi-Fi 7 Internal Antennas Campus Access Point
S1G89A	HPE Aruba Networking AP-755 (RW) Tri Radio 4x4 Wi-Fi 7 Internal Antennas TAA Campus Access Point
S0H11A	HPE Aruba Networking AP-755 (US) Tri Radio 4x4 Wi-Fi 7 Internal Antennas 5-pack Campus Access Point
S1G85A	HPE Aruba Networking AP-755 (US) Tri Radio 4x4 Wi-Fi 7 Internal Antennas Campus Access Point
S1G90A	HPE Aruba Networking AP-755 (US) Tri Radio 4x4 Wi-Fi 7 Internal Antennas TAA 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	
S1H26A	HPE Aruba Networking AP-750-CVR-20 Access Point 20-pack White Non-Glossy Snap-On Covers
S1F79A	HPE Aruba Networking AP-ANT-311 Direct-Mount RP-SMA Tri-Band 1x1 Omni Dipole Antenna
S1F80A	HPE Aruba Networking AP-ANT-312 Direct-Mount RP-SMA Tri-Band 1x1 Low-Profile Omni Dipole Antenna
S1F81A	HPE Aruba Networking AP-ANT-313 Cabled RP-SMA Tri-Band 1x1 Omni Dipole Antenna
S1F86A	HPE Aruba Networking AP-ANT-325 Cabled RP-SMA Tri-Band 2x2 Medium Gain Directional Panel Antenna
S1F87A	HPE Aruba Networking AP-ANT-328 Cabled RP-SMA Tri-Band 2x2 High Gain Directional Panel Antenna
S1F82A	HPE Aruba Networking AP-ANT-340 Cabled RP-SMA Tri-Band 4x4 Downtilt Omni Ceiling Antenna
S1F83A	HPE Aruba Networking AP-ANT-345 Cabled RP-SMA Tri-Band 4x4 Medium Gain Directional Panel Antenna
S1F84A	HPE Aruba Networking AP-ANT-348 Cabled RP-SMA Tri-Band 4x4 High Gain Directional Panel Antenna
S1J09A	HPE Aruba Networking AP-ANT-MNT-U Universal AZ/EL Adjustable Antenna Pole Wall Mount Kit
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

R3K00A	HPE Aruba Networking AP-AC2-12B 12V/48W AC/DC Desktop Style Power Adapter with 2.1/5.5mm Connector
S3J26A	HPE Aruba Networking AP-POE-BT10 1-port 10G 60W Midspan 802.3bt PoE Injector

Wireless Devices

S1E83A	HPE Aruba Networking AP-503 (RW) 10-Pack Dual Radio 2x2:2 Wi-Fi 6 Campus Access Point
S1E84A	HPE Aruba Networking AP-503 (US) 10-Pack Dual Radio 2x2:2 Wi-Fi 6 Campus Access Point

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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Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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