

HPE Aruba Networking 500 Series Campus Access Points



What's new

- Entry-level Wi-Fi 6 access points provide up to 1.49 Gbps maximum combined data rate
- Support for orthogonal frequency-division multiple access (OFDMA) for enhanced multi-user efficiency, and WPA3 and Enhanced Open (OWE) for greater security
- IoT-ready with built-in Bluetooth 5 and Zigbee support
- Dynamic segmentation and policy enforcement firewalls (PEFs) automatically enforce consistent policies across wired and wireless networks, enhancing user and device security

Overview

HPE Aruba Networking 500 Series Campus Access Points deliver cost-effective Wi-Fi 6 coverage for indoor environments such as mid-sized offices, schools, and retail spaces where fewer people are on the network at the same time. With a 1.49 Gbps maximum combined data rate, the 500 series delivers reliable Wi-Fi for medium-density environments and is supported by HPE Aruba Networking Central, AI-powered management that simplifies and improves IT operations across branch, remote office, campus, data center, and IoT networks with a single point of visibility and control.

The 500 series is Wi-Fi CERTIFIED® and supports Wi-Fi 6 (802.11ax) features: OFDMA for multi-user efficiency, target wake time (TWT) to extend the battery life of connected Internet of Things (IoT) devices, and WPA3 and Enhanced Open (OWE) for greater password and guest security. The 500 series includes a limited lifetime warranty.

- Built-in technology that resolves sticky client issues and improves the performance of mobile Wi-Fi clients
- Available in optional eco-friendly 10-packs

Features

Wi-Fi 6 Performance

HPE Aruba Networking 500 Series Campus Access Points deliver a maximum combined data rate of 1.49 Gbps with 2 spatial streams to meet the needs of low and medium-density environments.

Wi-Fi CERTIFIED® with support for Wi-Fi 6 features such as OFDMA, bidirectional MU-MIMO, and target wait time (TWT) to drive improved efficiency. It handles multiple Wi-Fi 6 capable clients on each channel simultaneously, regardless of device or traffic type.

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

Cloud Management and Ready for IoT

HPE Aruba Networking 500 Series Campus Access Points can be managed with HPE Aruba Networking Central, an AI-powered solution that simplifies IT operations, improves agility, and reduces costs by unifying management of campus, branch, remote, data center, and IoT networks from one dashboard.

Supports Bluetooth 5 and Zigbee wireless protocols through an integrated IoT radio, and third-party expansion with an integrated USB port.

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.

Simple and Secure Access

HPE Aruba Networking 500 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.

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

WPA3 and Enhanced Open security increases enterprise-level security by providing stronger guest access protections without increasing complexity.

For enhanced device assurance, the APs include an installed trusted platform module (TPM) for protected storage of credentials and keys, and boot code.

Technical specifications	HPE Aruba Networking 500 Series Campus Access Points
Deployment	Indoor
Wi-Fi generation	Wi-Fi 6 (802.11ax)
Wi-Fi radios	Dual 2x2
Radio configuration options	2.4 GHz and 5 GHz
Max bandwidths and peak data rate per band	20/40 (2.4 GHz), 20/40/80 (5 GHz), maximum peak data rate 1.49 Gbps
Wi-Fi antenna	HPE Aruba Networking 500 Series Campus Access Points models: AP-504: Two RP-SMA connectors for external dual-band antennas. AP-505: Two integrated dual-band downtilt omnidirectional antennas for 2x2 MIMO. Built-in antennas for horizontal ceiling-mounted orientation of the access point. The downtilt angle gain is roughly 30°.
Ultra tri-band (UTB) filtering	No
IoT support	IEEE 802.15.4/Zigbee or Bluetooth 5, USB 2.0 Type A
Integrated sensor	No
Location services	802.11 FTM support
Cellular support	USB LTE modem (sold separately)
Wired network interface	1 x 1GbE
MACsec support	No
AP operating system support	HPE Aruba Networking Wireless Operating System 8.6.0.0 or later; HPE Aruba Networking Instant OS 8.6.0.0 or later; HPE Aruba Networking Wireless Operating System 10.0.0.0 or later
AP management	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service
Certifications	UL2043 plenum rating Wi-Fi Alliance®: Wi-Fi CERTIFIED® a, b, g, n, ac Wi-Fi CERTIFIED 6 (ax) WPA, WPA2 and WPA3-Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, W-Fi Agile Multiband Wi-Fi CERTIFIED Location Bluetooth SIG Ethernet Alliance (PoE, PD device, Class 4)

Regulatory

FCC/ISED
CE Marked
RED Directive 2014/53/EU
EMC Directive 2014/30/EU
Low Voltage Directive 2014/35/EU
UL/IEC/EN 62368-1
EN 60601-1-1, EN60601-1-2

Railway Certs (AP-505 only):

EN 50155:2017 —Railway Applications
EN 50121-1:2017 —Railway EMC
EN 50121-3-2 —Railway EMC
EN 50121-4:2016 —Railway Immunity
IEC 61373 ed2:2008 —Railway Shock and Vibration

For more country-specific regulatory information and approvals, contact your HPE representative.

Warranty

Limited lifetime warranty. See the [warranty duration](#).

Weight

500 g

Product dimensions (metric)

37 x 160 x 161 mm

Ports

E0: Ethernet wired network port (RJ-45)
USB 2.0 host interface (Type A connector)
Serial console interface (proprietary, micro-B USB physical jack)
Kensington security slot.

SKU overview

R2H19A: HPE Aruba Networking AP-504 (EG) Dual Radio 2x2 802.11ax External Antennas Unified Campus AP

R2H30A: HPE Aruba Networking AP-504 (EG) TAA Dual Radio 2x2 802.11ax External Antennas Unified Campus AP

R2H20A: HPE Aruba Networking AP-504 (IL) Dual Radio 2x2 802.11ax External Antennas Unified Campus AP

R2H31A: HPE Aruba Networking AP-504 (IL) TAA Dual Radio 2x2 802.11ax External Antennas Unified Campus AP

R2H21A: HPE Aruba Networking AP-504 (JP) Dual Radio 2x2 802.11ax External Antennas Unified Campus AP

R2H32A: HPE Aruba Networking AP-504 (JP) TAA Dual Radio 2x2 802.11ax External Antennas Unified Campus AP

R2H22A: HPE Aruba Networking AP-504 (RW) Dual Radio 2x2 802.11ax External Antennas Unified Campus AP

R2H33A: HPE Aruba Networking AP-504 (RW) TAA Dual Radio 2x2 802.11ax External Antennas Unified Campus AP

R2H23A: HPE Aruba Networking AP-504 (US) Dual Radio 2x2 802.11ax External Antennas Unified Campus AP

R2H34A: HPE Aruba Networking AP-504 (US) TAA Dual Radio 2x2 802.11ax External Antennas Unified Campus AP

R2H25A: HPE Aruba Networking AP-505 (EG) Dual Radio 2x2 802.11ax Internal Antennas Unified Campus AP

R2H35A: HPE Aruba Networking AP-505 (EG) TAA Dual Radio 2x2 802.11ax Internal Antennas Unified Campus AP

S5D85A: HPE Aruba Networking AP-505 (ID) Dual Radio 2x2 802.11ax Internal Antennas Campus Access Point

R2H26A: HPE Aruba Networking AP-505 (IL) Dual Radio 2x2 802.11ax Internal Antennas Unified Campus AP

R2H36A: HPE Aruba Networking AP-505 (IL) TAA Dual Radio 2x2 802.11ax Internal Antennas Unified Campus AP

R2H27A: HPE Aruba Networking AP-505 (JP) Dual Radio 2x2 802.11ax Internal Antennas Unified Campus AP

R2H37A: HPE Aruba Networking AP-505 (JP) TAA Dual Radio 2x2 802.11ax Internal Antennas Unified Campus AP

R2H28A: HPE Aruba Networking AP-505 (RW) Dual Radio 2x2 802.11ax Internal Antennas Unified Campus AP

S3J27A: HPE Aruba Networking AP-505 (RW) Dual Radio 2x2 Wi-Fi 6 10-pack Campus Access Point

R2H38A: HPE Aruba Networking AP-505 (RW) TAA Dual Radio 2x2 802.11ax Internal Antennas Unified Campus AP

R2H29A: HPE Aruba Networking AP-505 (US) Dual Radio 2x2 802.11ax Internal Antennas Unified Campus AP

S3J28A: HPE Aruba Networking AP-505 (US) Dual Radio 2x2 Wi-Fi 6 10-pack Campus Access Point

R2H39A: HPE Aruba Networking AP-505 (US) TAA Dual Radio 2x2 802.11ax Internal Antennas Unified Campus AP

Related Options

The following options are available for these series:

SKU	Description
Cables/Cable Kits	
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	
R2H24A	HPE Aruba Networking AP-505-CVR-20 20pk for AP-505 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
S1F85A	HPE Aruba Networking AP-ANT-320 Cabled RP-SMA Tri-Band 2x2 Downtilt Omni Ceiling 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
S1J09A	HPE Aruba Networking AP-ANT-MNT-U Universal AZ/EL Adjustable Antenna Pole Wall Mount Kit
SOJ40A	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
R3T20A	HPE Aruba Networking AP-MNT-MP10-X Campus AP 10-Pack Mount Adapter 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
R6P68A	HPE Aruba Networking AP-POE-AFGE 1-Port GbE 802.3af 15.4W Midspan Injector
R6P67A	HPE Aruba Networking AP-POE-ATSR 1-Port Smart Rate 802.3at 30W Midspan Injector
JW113A	HPE Aruba Networking PC-AC-ARG 250V/10A 1.8m C13 to IRAM 2073 (AR) AC Power Cord
JW114A	HPE Aruba Networking PC-AC-AUS 250V/10A 1.8m C13 to AS3112 (AU) AC Power Cord
JW115A	HPE Aruba Networking PC-AC-BR 250V/10A 1.8m C13 to NBR 14136 (BR) AC Power Cord
JW116A	HPE Aruba Networking PC-AC-CHN 250V/10A 1.8m C13 to GB2099 (CH) AC Power Cord
JW117A	HPE Aruba Networking PC-AC-DEN 250V/10A 1.8m C13 to AFSNIT 107-2-D1 (DK) AC Power Cord
JW118A	HPE Aruba Networking PC-AC-EC 250V/10A 1.8m C13 to CEE7/7 (EU) AC Power Cord
JW120A	HPE Aruba Networking PC-AC-IL 250V/10A 1.8m C13 to SI32 (IL) AC Power Cord
JW119A	HPE Aruba Networking PC-AC-IN 250V/6A 1.8m C13 to IS1293 (IN) AC Power Cord
JW121A	HPE Aruba Networking PC-AC-IT 250V/10A 1.8m C13 to CEI 23-50 (IT) AC Power Cord
JW122A	HPE Aruba Networking PC-AC-JPN 125V/12A 1.8m C13 to JISC 8303 (JP) AC Power Cord
JW123A	HPE Aruba Networking PC-AC-KOR 250V/7A 1.8m C13 to KSC 8305 (KR) AC Power Cord
JW124A	HPE Aruba Networking PC-AC-NA 125V/10A 1.8m C13 to NEMA 5-15P (NA) AC Power Cord
JW125A	HPE Aruba Networking PC-AC-SWI 220V/10A 1.8m C13 to SEV 1011 (SW) AC Power Cord
JW126A	HPE Aruba Networking PC-AC-TW 125V/7A 1.8m C13 to CNS 10917 (TW) AC Power Cord
JW127A	HPE Aruba Networking PC-AC-UK 250V/10A 1.8m C13 to BS1363 (UK) AC Power Cord
JW128A	HPE Aruba Networking PC-AC-ZA 250V/10A 1.8m C13 to SANS 164-1 (ZA) AC Power Cord

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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