Data sheet

HPE Aruba Networking 500H Series Unified Hospitality Access Points

What's new

- Cost-effective Wi-Fi 6 hospitality access points provide up to 1.49 Gbps maximum combined data rate with a range of connectivity options for venues such as hotels, residence halls, and remote offices
- The AP provides supports for OFDMA for enhanced multi-user efficiency, and WPA3 and Enhanced Open for greater security
- The AP provides IoT-ready Bluetooth 5 and Zigbee support
- Dynamic segmentation and policy enforcement firewalls (PEFs) automatically enforce consistent

Overview

HPE Aruba Networking 500H Series Hospitality Access Points deliver cost-effective Wi-Fi 6 coverage in a compact form factor that is ideal for hotels, residence halls, and remote offices. With 1.49 Gbps maximum combined speed, zero touch provisioning (ZTP), and wired ports, the 500H series is ready to improve wireless experiences for guests, employees, students, and teleworkers.

The 500H series is Wi-Fi CERTIFIED® and supports 802.11ax features; orthogonal frequency-division multiple access (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 500H series includes a limited lifetime warranty.

policies across the network, enhancing user and device security

- Zero touch provisioning (ZTP) provides ease of implementation in branch offices and remote sites, without on-site technical expertise

- You can customize deployment with optional desktop stand and models that offer choice of wired connectivity, USB, and PoE out support

Features

Wi-Fi 6 Performance for Hotels, Dorms, and Remote Offices

HPE Aruba Networking 500H Series Unified Hospitality 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.

The AP provides Wi-Fi CERTIFIED® with support for Wi-Fi 6 features such as OFDMA, 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 removes sticky client issues by steering a client to the AP where it receives a strong radio signal.

Flexible Deployment and Unified Management

The HPE Aruba Networking 500H Series Unified Hospitality Access Points can be installed on a wall for hotel or residence hall environments or installed with optional desktop stand for tabletop deployment.

The AP manages 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.

The AP-503H model has three 1 Gbps Ethernet ports (1x 1 Gbps uplink, 2x 1 Gbps downlink). The AP-505H model has five Ethernet ports (1x 2.5 Gbps uplink, 4x 1 Gbps downlink), supports PoE out on two ports, and includes a USB port.

Product bundles for remote desktop use include access point, desk mount, power adapter, and power cord (US and EU only).

Zero touch provisioning (ZTP) provides ease of implementation in branch offices and remote sites, without on-site technical expertise.

Ready for IoT

The HPE Aruba Networking 500H Series Unified Hospitality Access Points support Bluetooth 5 and Zigbee wireless protocols through an integrated IoT radio. The AP-505H model also has an integrated USB port to support a range of IoT devices.

The AP simplifies deploying and managing IoT location services, asset-tracking services, security solutions, and IoT sensors.

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

The HPE Aruba Networking 500H Series Unified Hospitality Access Points offer enhanced security with dynamic segmentation to remove 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, and user and IoT access policy enforcement firewalls (PEFs).

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

Trusted platform module (TPM) secures credentials, keys, and boot code.

Technical specifications	HPE Aruba Networking 500H Series Unified Hospitality Access Points
Deployment	Hospitality Indoor
Wi-Fi generation	Wi-Fi 6 (802.11ax)
Wi-Fi radios	Dual 2 x2
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 500H Series Unified Hospitality Access Points models: AP-503H: Two integrated semi-directional antennas for 2x2 MIMO. Built-in antennas for vertical wall or desk mounted orientation of the AP. AP 505H: Two integrated semi-directional antennas for 2x2 MIMO. Built-in antennas for vertical wall or desk mounted orientation of the AP.
Ultra tri-band (UTB) filtering	No
IoT support	AP-503H: IEEE 802.15.4/Zigbee or BLE 5.0 AP-505H: IEEE 802.15.4/Zigbee or BLE 5.0, USB 2.0 type A
Integrated sensor	No
Location services	802.11 FTM support
Cellular support	USB LTE modem (sold separately)
Wired network interface	AP-503H: 3x 1 Gbps Ethernet ports (1x 1 Gbps uplink, 2x 1 Gbps downlink). AP-505H: 5x Ethernet ports (1x 2.5 Gbps uplink, 4x 1 Gbps downlink). It supports PoE out on two ports
MACsec support	No
Ports	USB 2.0 host interface (Type A connector) Serial console interface (proprietary, micro-B USB physical jack) AP-503H: E0: Ethernet wired network port (RJ-45) E1–E2: Ethernet wired network ports (RJ-45) AP-505H: E0: HPE Smart Rate RJ-45 port E1–E4: Ethernet wired network ports (RJ-45)
AP operating system support	HPE Aruba Networking Operating System and HPE Aruba Networking Instant OS 8.7.1.0 (AP-503H) and 8.7.0.0 (AP-505H), HPE Aruba Networking Operating System 10.3.0.0 (AP-503H), 10.2.0.0 (AP-505H)

Technical specifications	HPE Aruba Networking 500H Series Unified Hospitality Access Points
AP management	On-premises Public Cloud Virtual Private Cloud (VPC) as a Service
Certifications	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, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location (AP-505H only) Bluetooth SIG Ethernet Alliance (PoE)
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 For more country-specific regulatory information and approvals, contact your HPE representative.
Warranty	Limited lifetime warranty. See the warranty duration.

SKU overview

SKU	Description
R3V44A	HPE Aruba Networking AP-503H (EG) Dual Radio 802.11ax 2x2 1+2 Ethernet Unified Hospitality AP
R3V45A	HPE Aruba Networking AP-503H (EG) Dual Radio 802.11ax 2x2 1+2 Ethernet Unified TAA Hospitality AP
S5D82A	HPE Aruba Networking AP-503H (ID) Dual Radio 2x2 802.11ax 1+2 Ethernet Hospitality Access Point
R3V42A	HPE Aruba Networking AP-503H (IL) Dual Radio 802.11ax 2x2 1+2 Ethernet Unified Hospitality AP
R3V43A	HPE Aruba Networking AP-503H (IL) Dual Radio 802.11ax 2x2 1+2 Ethernet Unified TAA Hospitality AP
R3V40A	HPE Aruba Networking AP-503H (JP) Dual Radio 802.11ax 2x2 1+2 Ethernet Unified Hospitality AP
R3V41A	HPE Aruba Networking AP-503H (JP) Dual Radio 802.11ax 2x2 1+2 Ethernet Unified TAA Hospitality AP
R3V36A	HPE Aruba Networking AP-503H (RW) Dual Radio 802.11ax 2x2 1+2 Ethernet Unified Hospitality AP
R3V37A	HPE Aruba Networking AP-503H (RW) Dual Radio 802.11ax 2x2 1+2 Ethernet Unified TAA Hospitality AP
R3V38A	HPE Aruba Networking AP-503H (US) Dual Radio 802.11ax 2x2 1+2 Ethernet Unified Hospitality AP
R3V39A	HPE Aruba Networking AP-503H (US) Dual Radio 802.11ax 2x2 1+2 Ethernet Unified TAA Hospitality AP
R7G96A	HPE Aruba Networking AP-503HR (EU) with Desk Mount Power Adapter EU Power Cord Remote AP Bundle
R7G97A	HPE Aruba Networking AP-503HR (US) with Desk Mount Power Adapter NA Power Cord Remote AP Bundle
R3V54A	HPE Aruba Networking AP-505H (EG) Dual Radio 802.11ax 2x2 1+4 Ethernet PSE USB Hospitality AP
R3V55A	HPE Aruba Networking AP-505H (EGF1) Dual Radio 802.11ax 2x2 1+4 Ethernet PSE USB TAA Hospitality AP
S5D84A	HPE Aruba Networking AP-505H (ID) Dual Radio 2x2 802.11ax 1+4 Ethernet PSE USB Hospitality AP
R3V52A	HPE Aruba Networking AP-505H (IL) Dual Radio 802.11ax 2x2 1+4 Ethernet PSE USB Hospitality AP
R3V53A	HPE Aruba Networking AP-505H (ILF1) Dual Radio 802.11ax 2x2 1+4 Ethernet PSE USB TAA Hospitality AP
R3V50A	HPE Aruba Networking AP-505H (JP) Dual Radio 802.11ax 2x2 1+4 Ethernet PSE USB Hospitality AP
R3V51A	HPE Aruba Networking AP-505H (JPF1) Dual Radio 802.11ax 2x2 1+4 Ethernet PSE USB TAA Hospitality AP
R3V46A	HPE Aruba Networking AP-505H (RW) Dual Radio 802.11ax 2x2 1+4 Ethernet PSE USB Hospitality AP
R3V47A	HPE Aruba Networking AP-505H (RWF1) Dual Radio 802.11ax 2x2 1+4 Ethernet PSE USB TAA Hospitality AP
R3V48A	HPE Aruba Networking AP-505H (US) Dual Radio 802.11ax 2x2 1+4 Ethernet PSE USB Hospitality AP
R3V49A	HPE Aruba Networking AP-505H (USF1) Dual Radio 802.11ax 2x2 1+4 Ethernet PSE USB TAA Hospitality AP
R3V56A	HPE Aruba Networking AP-505HR (EU) Remote AP Bundle Desk Mount and Power Hospitality Access Point
R3V57A	HPE Aruba Networking AP-505HR (US) Remote AP Bundle Desk Mount and Power Hospitality Access Point

Related Options

The following options are available for these series:

SKU	Description
Adapters	
R9D91A	HPE Aruba Networking AP-AC18-12B 12V/18W Worldwide Wall-Wart 2.1/5.5mm Connector Power Adapter
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	
R8F89A	HPE Aruba Networking AP-MC-SFP Media Converter Module for WLAN Access Points
R8F34A	HPE Aruba Networking USB LTE Modem for Access Points and Gateways
Mounting Rack/Rail Options	
S0J41A	HPE Aruba Networking AP-500H-MNTD2 RJ45 Ethernet Jack Desk Mount
R6T34A	HPE Aruba Networking AP-MNT-MP10-B1 Campus AP 10-Pack 15/16 Adj Flat Ceiling Rail Mount Bracket Kit
Networking Options	
R8G76A	HPE Aruba Networking USB Extender Cable 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
R3K01A	HPE Aruba Networking AP-AC2-48C 48V/50W AC/DC Desktop Style Power Adapter with 1.35/3.5mm 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
S3J26A	HPE Aruba Networking AP-POE-BT10 1-port 10G 60W Midspan 802.3bt PoE Injector
R1C73A	HPE Aruba Networking AP-POE-BTSR 1-Port Smart Rate 802.3bt 60W 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

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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