

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)

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.

automatically enforce consistent 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
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)
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](#).

Weight 360 gm

Product dimensions (metric) 150 x 86 x 47 mm

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)

SKU overview

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

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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