

HPE Aruba Networking 500H Series Unified Hospitality Access Points



What's new

- Cost-effective Wi-Fi 6 hospitality access points provide up to 1.5 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

Overview

HPE Aruba Networking 500H Series Unified Hospitality Access Points delivers cost-effective Wi-Fi 6 coverage in a compact form factor that is ideal for hotels, residence halls, and remote offices. With 1.5 Gbps maximum combined speed, Zero Touch Provisioning, 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: OFDMA for multi-user efficiency, target wake time (TWT) to extend the battery life of connected IoT devices, and WPA3 and Enhanced Open for greater password and guest security. The 500H Series includes a limited lifetime warranty.

enforcement firewalls (PEF) automatically enforce consistent policies across all networks, enhancing user and device security.

- Zero Touch Provisioning that 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 1.5 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, 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 removes sticky client issues by steering a client to the AP where it receives the best 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 (1 x 1 Gbps uplink, 2 x 1 Gbps downlink). The AP-505H model has five Ethernet ports (1 x 2.5 Gbps uplink, 4 x 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 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 [1] 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 (PEF).

WPA3 and Enhanced Open 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

Certifications

Bluetooth SIG
Ethernet Alliance (PoE)
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
Passpoint (Release 2)
Wi-Fi CERTIFIED Location (HPE AP-505H Only)

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

Wi-Fi antenna

AP-503H: Two integrated semi-directional antennas for 2x2 MIMO with peak single antenna gain of 2.5 dBi in 2.4 GHz and 5.6 dBi in 5 GHz.
AP 505H: Two integrated semi-directional antennas for 2x2 MIMO with peak single antenna gain of 5.2 dBi in 2.4 GHz and 5.4 dBi in 5 GHz.

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: Two Ethernet wired network ports (RJ45)

AP-505H:
E0: HPE Smart Rate RJ-45 port
E1-E4: Four Ethernet wired network ports (RJ45)

Mounting

Optional mounting kits available, see the ordering guide.

Power consumption

50W max

Radio coverage

5 GHz radio: Two spatial stream (SU/MU) MIMO for up to 1.2 Gbps wireless data rate (HE80)
2.4 GHz radio: Two spatial stream (SU/MU) MIMO for up to 287 Mbps wireless data rate (HE20)

Warranty

Limited lifetime warranty. See the warranty duration.

Product dimensions

150 x 86 x 47 mm

Weight

360 gm

[1] Bluetooth is a trademark owned by its proprietor and used by Hewlett Packard Enterprise under license. All third-party marks are property of their respective owners.



For additional technical information, available models and options, please reference the [QuickSpecs](#)

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: <https://www.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: Annual subscription services include:

- Planning, audit, and assessment
- Architecture review and design
- Deployment, migration, and knowledge transfer
- Network optimization
- Intelligent Operations
- Customer Experience Management

Our [Education Services](#) allow your team to come up to speed quickly.

HPE GreenLake for Networking

Our NaaS solution, is part of the HPE GreenLake services family, and simplifies network operations, accelerates equipment handling, and increases the value of your HPE Aruba Networking solution. If you need expert guidance and automation-based operations for your team, please explore our NaaS approach through HPE GreenLake for Networking.

Make the right purchase decision.
Contact our presales specialists.

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