HPE Aruba Networking 530 Series Campus Access Points

HPE Aruba Networking AP-535 (US) Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP (JZ337A)

What's new

- Wi-Fi 6 access points (APs) provide up to 2.97 Gbps combined aggregate data rate
- Dual radio AP supporting 5 GHz and 2.4 GHz bands (4x4 MIMO)
- Protects network security with stronger encryption and authentication, secure credentials/keys storage, and user and IoT access policy enforcement firewalls (PEFs)

Overview

The HPE Aruba Networking 530 Series Campus Access Points provide Wi-Fi 6 connectivity for high-density deployments such as larger office spaces, training and meeting facilities, and hospitals. Providing up to 2.97 Gbps combined aggregate data rate, this series is built on Wi-Fi 6 standards (IEEE 802.11ax) and includes features such as OFDMA, bidirectional MU-MIMO, and target wait time (TWT) for better multi-user performance and improved efficiency.

The 530 series can be deployed using zero touch provisioning (ZTP) without onsite technical expertise, for ease of implementation in branch offices and for remote work. HPE Aruba Networking Central provides a single pane of

- IoT-ready with support for Bluetooth 5 and Zigbee and two 5 Gbps ports for fast wired connectivity
- Deploy models with internal antennas or connectorized models that support external antennas to meet the range of environments

glass for overseeing wired and wireless LANs, WANs, and VPNs. AIpowered analytics, endtoend orchestration and automation, and advanced security features are built natively into the solution. The 530 series includes a limited lifetime warranty.

Features

Boost your Wi-Fi 6 Performance

The HPE Aruba Networking 530 Series Campus Access Points are designed to simultaneously serve multiple clients and traffic types providing up to 2.97 Gbps combined aggregate data rate.

Dual-radio (dual 4x4 MIMO) 802.11ax AP with up-and downlink OFDMA and Multi-User MIMO (MU-MIMO).

The AP includes features such as OFDMA, bidirectional MU-MIMO, and target wait time (TWT) for better multi-user performance and improved efficiency.

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

Two 5 Gbps ports provide flexibility to support speeds of 1, 2.5, or 5 Gbps (or 100 Mbps).

Security By Design

The HPE Aruba Networking 530 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, and user and IoT access policy enforcement firewalls (PEF).

The AP simplifies policy enforcement by using the PEF to encapsulate all traffic from the AP to the gateway (or mobility controller) for end-to-end encryption and inspection.

For enhanced device assurance, the 530 series include an installed trusted platform module (TPM) for protected storage of credentials and keys, and boot code.

IoT Ready

The HPE Aruba Networking 530 Series Campus Access Points can serve as IoT platforms that bolster network security and provide coverage for a range of IoT devices without the need for network overlays.

The AP supports an integrated Bluetooth 5 and 802.15.4 radio (for Zigbee support), as well as a USB port for increased flexibility, providing better security and reliable connectivity for IoT devices.

HPE Aruba Networking Central Client Insights uses deep packet inspection to provide additional context and behavioral information that helps verify devices are receiving proper policy enforcement and continuously monitor for rogue devices.

Sustainability

The HPE Aruba Networking 530 Series Campus Access Points support AI-powered dynamic power save mode which enables APs to automatically wake up at a schedule when connectivity demand arises, reducing power demands and lowering the energy footprint.

The intelligent power monitoring (IPM) provides the ability to enable or disable capabilities based on available PoE power.

The 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.

Technical specifications	HPE Aruba Networking AP-535 (US) Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP
Product Number	JZ337A
Differentiator	Available in US only
Deployment	Indoor
Wi-Fi generation	Wi-Fi 6 (802.11ax)
Wi-Fi radios	Dual 4x4
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/(80+80) (5 GHz), and maximum peak data rate 2.9 Gbps
Wi-Fi antenna	Four integrated dual-band downtilt omnidirectional antennas for 4x4 MIMO with peak antenna gain of 3.5 dBi in 2.4 GHz and 5.4 dBi in 5 GHz.
Ultra tri-band (UTB) filtering	No
IoT support	IEEE 802.15.4/Zigbee or Bluetooth 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	2 x 5GbE
MACsec support	No
AP operating system support	HPE Aruba Networking Wireless Operating System 8.5.0.0* HPE Aruba Networking Instant OS 8.5.0.0* HPE Aruba Networking Wireless Operating System 10.0.0.0 or later. Note: *With some restrictions. For unrestricted operation, use 8.6.0.0 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, Wi-Fi Agile Multiband Wi-Fi CERTIFIED Location Bluetooth Special Interest Group (SIG)

Technical specifications	HPE Aruba Networking AP-535 (US) Dual Radio 4x4 802.11ax Internal Antennas Unified Campus AP
Regulatory	FCC/ISED CE marked Radio Equipment Directive (RED) Directive 2014/53/EU Electromagnetic compatibility (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-535 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	1.0 kg
Product dimensions	57 x 240 x 240 mm (AP-534), 80mm x 270 x 270 mm (AP-535)
Input voltage	IEEE 802.3bt (class 5) or 802.3at PoE, or direct DC power (via optional power supply)
Connectivity, standard	Wi-Fi 6 (IEEE 802.11ax)
Ports	E0, E1: Ethernet port (RJ-45) Serial console interface (proprietary, micro-B USB physical jack) USB 2.0 host interface (Type A connector) Kensington security slot
Mounting	Pre-installed mounting bracket, for use with optional mounting kit, see the ordering guide.
Power consumption	POE powered (802.3bt or dual 802.3at): 30W POE powered (802.3at, IPM enabled): 25W DC powered: 29W maximum (worst case)
Radio coverage	Dual-radio 4x4 MIMO IEEE 802.11ax AP with up-and downlink OFDMA and Multi-User MIMO (MU-MIMO). Maximum data rates of 2.4 Gbps in the 5 GHz band and 1,150 Mbps in the 2.4 GHz band (for an aggregate peak data rate of 3.55 Gbps).

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.

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.

For additional technical information, available models and options, please reference the QuickSpecs

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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.

Image may differ from the actual product.

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