

HPE Aruba Networking 550 Series Campus Access Points

HPE Aruba Networking AP-555 (EG) TAA Dual Radio 8x8/4x4 802.11ax
Internal Ants Unified Campus AP (JZ363A)



What's new

- High performance Wi-Fi 6 access points (APs) provide up to 5.37 Gbps combined aggregate data rate
- The 550 series has optional tri-radio mode with two 5 GHz and one 2.4 GHz radio (4x4 MIMO)
- It protects with encryption and authentication, secure credentials/keys storage, and user and Internet of Things (IoT) access policy enforcement firewalls (PEF)

Overview

The HPE Aruba Networking 550 Series Campus Access Points provide high performance Wi-Fi 6 connectivity to mobile and Internet of Things (IoT) devices in high density environments. Providing up to 5.37 Gbps combined aggregate data rate with dual radios and optional tri-radio mode, 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.

This 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

- It is IoT-ready with support for Bluetooth 5 and Zigbee
 - It has two 5 Gbps ports for fast wired connectivity
- glass for overseeing wired and wireless LANs, WANs, and VPNs. AI-powered analytics, end-to-end orchestration and automation, and advanced security features are built natively into the solution. The 550 series includes a limited lifetime warranty.

Features

Top Wi-Fi 6 Performance

The HPE Aruba Networking 550 Series Campus Access Points are designed to simultaneously serve multiple clients and traffic types with dual radio and optional tri-radio mode, boosting overall network performance and providing up to 5.37 Gbps combined aggregate data rate.

Optional tri-radio mode supports two 5 GHz radios and one 2.4 GHz radio (4x4 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 receives a strong radio signal.

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

Enhanced Security

The HPE Aruba Networking 550 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).

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

For enhanced device assurance, the 550 series include an installed trusted platform module (TPM) for protected storage of credentials and keys, and boot code.

IoT Ready

The HPE Aruba Networking 550 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) and 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 help verify devices are receiving proper policy enforcement and continuously monitor for rogue devices.

Sustainability

The 550 series support AI-powered dynamic power save mode, it enables APs to automatically wake up at a schedule when connectivity demand arises, reducing power demands and lowering the energy footprint to align with the organization sustainability initiatives.

The Intelligent Power Monitoring (IPM) feature provides the ability to enable or disable capabilities based on available Power over Ethernet (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-555 (EG) TAA Dual Radio 8x8/4x4 802.11ax Internal Ants Unified Campus AP
Product Number	JZ363A
Deployment	Indoor
Wi-Fi generation	Wi-Fi 6 (802.11ax)
Wi-Fi radios	4x4 (2.4 GHz) 8x8 or dual 4x4 (5 GHz)
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 5.37 Gbps
Wi-Fi antenna	Integrated downtilt omnidirectional antennas for 4x4 MIMO in 2.4 GHz and 8x8 MIMO in 5 GHz. Built-in antennas for horizontal ceiling-mounted orientation of the AP. The downtilt angle gain is roughly 30°.
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 10.0.0.0 or later HPE Aruba Networking Wireless Operating System 8.5.0.0* HPE Aruba Networking Instant OS 8.5.0.0* 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, ax WPA, WPA2, and WPA3—Enterprise with CNSA option, Personal (SAE), Enhanced Open (OWE) WMM, WMM-PS, W-Fi Agile Multiband Passpoint (Release 2) Wi-Fi CERTIFIED Location Bluetooth Special Interest Group (SIG)

Technical specifications**HPE Aruba Networking AP-555 (EG) TAA Dual Radio 8x8/4x4 802.11ax Internal Ants Unified Campus AP****Regulatory**

FCC/ISED
CE Marked
Radio Equipment Directive (RED) 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
For more country-specific regulatory information and approvals, contact your HPE representative.

Warranty

Limited lifetime warranty. See the warranty duration.

Weight

1.57 kg

Product dimensions

58 x 260 x 260 mm

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

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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