HPE Aruba Networking 550 Series Campus Access Points

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)
- It is IoT-ready with support for Bluetooth 5 and Zigbee
- It has two 5 Gbps ports for fast wired connectivity

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 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 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 signals.

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 550 Series Campus Access Points
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
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
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

Technical specifications	HPE Aruba Networking 550 Series Campus Access Points
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)
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.

SKU overview

SKU	Description
JZ353A	HPE Aruba Networking AP-555 (EG) Dual Radio 8x8/4x4 802.11ax Internal Antennas Unified Campus AP
JZ363A	HPE Aruba Networking AP-555 (EG) TAA Dual Radio 8x8/4x4 802.11ax Internal Ants Unified Campus AP
S5D88A	HPE Aruba Networking AP-555 (ID) Dual Radio 8x8/4x4 802.11ax Internal Antennas Campus Access Point
JZ354A	HPE Aruba Networking AP-555 (IL) Dual Radio 8x8/4x4 802.11ax Internal Antennas Unified Campus AP
JZ364A	HPE Aruba Networking AP-555 (IL) TAA Dual Radio 8x8/4x4 802.11ax Internal Ants Unified Campus AP
JZ355A	HPE Aruba Networking AP-555 (JP) Dual Radio 8x8/4x4 802.11ax Internal Antennas Unified Campus AP
JZ365A	HPE Aruba Networking AP-555 (JP) TAA Dual Radio 8x8/4x4 802.11ax Internal Ants Unified Campus AP
JZ356A	HPE Aruba Networking AP-555 (RW) Dual Radio 8x8/4x4 802.11ax Internal Antennas Unified Campus AP
JZ366A	HPE Aruba Networking AP-555 (RW) TAA Dual Radio 8x8/4x4 802.11ax Internal Ants Unified Campus AP
JZ357A	HPE Aruba Networking AP-555 (US) Dual Radio 8x8/4x4 802.11ax Internal Ants Unified Campus AP
JZ367A	HPE Aruba Networking AP-555 (US) TAA Dual Radio 8x8/4x4 802.11ax Internal Ants Unified Campus AP

Related Options

The following options are available for these series:

SKU	Description
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	
JZ369A	HPE Aruba Networking AP-555-CVR-20 20pk for AP-555 White Non-glossy Snap-On Covers
S0J40A	HPE Aruba Networking AP-MNT-MP10-U Campus AP Universal 10-pack Mount Bracket Kit
R8F34A	HPE Aruba Networking USB LTE Modem for Access Points and Gateways
Mounting Rack/Rail Options	
R3J15A	HPE Aruba Networking AP-MNT-A Campus AP Type A Suspended Ceiling Rail Flat 9/16 Mount Bracket Kit
R3J16A	HPE Aruba Networking AP-MNT-B Campus AP Type B Suspended Ceiling Rail Flat 15/16 Mount Bracket Kit
R3J17A	HPE Aruba Networking AP-MNT-C Campus AP Type C Suspended Ceiling Rail 9/16 Profile Mnt Bracket Kit
R3J18A	HPE Aruba Networking AP-MNT-D Campus AP Type D Solid Surface Mount Bracket Kit
R3J19A	HPE Aruba Networking AP-MNT-E Campus AP Type E Wall-Box Mount Bracket Kit
JZ370A	HPE Aruba Networking AP-MNT-MP10-A Campus AP 10-Pack 9/16 Flat Ceiling Rail Mount Bracket Kit
R6T34A	HPE Aruba Networking AP-MNT-MP10-B1 Campus AP 10-Pack 15/16 Adj Flat Ceiling Rail Mount Bracket Kit
Q9G69A	HPE Aruba Networking AP-MNT-MP10-B Campus AP 10-Pack 15/16 Flat Ceiling Rail Mount Bracket Kit
Q9G70A	HPE Aruba Networking AP-MNT-MP10-C Campus AP 10-Pack Profile 9/16 Ceiling Rail Mount Bracket Kit
Q9G71A	HPE Aruba Networking AP-MNT-MP10-D Campus AP 10-Pack Solid Surface Mount Bracket Kit
R1C72A	HPE Aruba Networking AP-MNT-MP10-E Campus AP 10-Pack Wall-box Mount Bracket Kit
R3T20A	HPE Aruba Networking AP-MNT-MP10-X Campus AP 10-Pack Mount Adapter Kit
S4K79A	HPE Aruba Networking AP-MNT-U Campus Access Point Type U Universal Mount Bracket Kit
Networking Options	
R8G76A	HPE Aruba Networking USB Extender Cable Kit
Power Management Options	
R3K01A	HPE Aruba Networking AP-AC2-48C 48V/50W AC/DC Desktop Style Power Adapter with 1.35/3.5mm Connector
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
JW119A	HPE Aruba Networking PC-AC-IN 250V/6A 1.8m C13 to IS1293 (IN) 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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