Overview

HPE Aruba Networking 9200 Series Campus Gateways

Enterprise-Class Wi-Fi Performance and Reliability at Scale

The HPE Aruba Networking 9200 Series Campus Gateway delivers enhanced Wi-Fi scalability and security to meet demands at the Edge. Engineered for mission-critical environments, the HPE Aruba Networking 9200 Series delivers high performance, seamless roaming, 24x7 reliability, and always-on connectivity – even during upgrades. Unlike other Edge appliances, the HPE Aruba Networking 9200 Series provides consistent policy enforcement across wired and wireless and dynamic segmentation for any user or device – even IoT.

HPE Aruba Networking 9200 Series Campus Gateways

Standard Features

Enterprise-Class Performance

For medium and large enterprises who require high performance and 24x7 reliability, the HPE Aruba Networking 9200 Series Campus Gateway is designed to scale to meet todays and future demands. The HPE Aruba Networking 9200 Series Campus Gateways builds upon HPE Aruba Networking Aruba's legacy 7200 Series Gateways to provide next-generation connectivity for up to 2,048 Aps and 32,000 devices.

To ensure high availability, the HPE Aruba Networking 9200 Series Campus Gateways supports live upgrades and multiple gateways can be clustered together at each location for business continuity. Zero touch provisioning eliminates the need for on-site IT support.

Investment Protection

The HPE Aruba Networking 9200 Series Campus Gateway eliminates the need for overprovisioning or frequent hardware refresh by allowing enterprises to use tier-based pricing to unlock higher capacity levels. New to the HPE Aruba Networking 9200 Series Campus Gateways is a flexible capacity license model. Enterprises can opt for hardware only (20 Gbps total throughput, 512 Aps/16K devices) or for greater capacity they can add silver perpetual licenses (30 Gbps total throughput, 1K Aps/24K devices) or gold perpetual licenses (40 Gbps total throughput, 2K Aps/32K devices).

Powerful Security Enforcement

HPE Aruba Networking 9200 Series Campus Gateways delivers consistent policy enforcement across wired and wireless via dynamic segmentation. Traffic is tunneled to the gateway where granular rules are applied for any user, location, application, or device type – including IoT. For example, traffic can be segmented based on a defined set of user types such as guest, contractor, or employee to provide greater levels of security.

To deliver unified policy enforcement, the HPE Aruba Networking 9200 Series Campus Gateways rely on a built-in Layer 4-7 stateful firewall known as the policy enforcement firewall (PEF). It streamlines policy management by working across WLAN, LAN, and WAN. When deployed alongside HPE Aruba Networking ClearPass Policy Manager, policies are automatically enforced to simplify SSID, VLAN, and policy management.

Advanced Capabilities

Seamless Roaming

Users often experience delays and application disconnects when they move from one subnet to another, for example on a large campus. This is caused the designation of a single subnet per building, which restricts the roaming domain to a specific building. When roaming across buildings, application persistence is lost and new sign on are required. The HPE Aruba Networking 9200 Series Campus Gateways supports tunneling so that two disparate networks can connect directly to one another, bypassing normal routing rules and allowing a station to maintain the same Layer 3 address when roaming throughout a multi-VLAN network to improve the mobile user experience.

Quality of Service

Deep Packet Inspection provides greater application visibility and control. As a part of the policy enforcement firewall, the gateway consistently evaluates and optimizes performance and usage policies for over 3,000 applications. This ensures the highest possible Quality of Service (QoS) – even for encrypted traffic.

Redundancy and Clustering

The HPE Aruba Networking 9200 Series can be deployed with N+1 or NxN redundancy and can also join a controller cluster when deployed as a Mobility Controller managed by Mobility Conductor. This increases performance and scale for enhanced resiliency. Simple to use, mobile provisioning Allows on-site personnel to use a mobile app to onboard gateways. A central IT team can verify device location, licenses, and status with no additional steps required.

Unified Communications and Collaboration (UCC)

Visualize and troubleshoot networks based on call quality metrics such as MOS, latency, jitter, and packet loss. Supported applications include Teams, Zoom, Skype, Wi-Fi Calling, FaceTime, SIP, Jabber, Spark, and more.

In addition, HPE Aruba Networking Aruba's integration with Microsoft enables unique application intelligence that detects Microsoft 365 (Office 365), Teams, and Skype for Business traffic and then can prioritize them over less business-critical applications.

Standard Features

IoT and Integration Ready

To support IoT and integrate with your existing infrastructure, the HPE Aruba Networking 9200 Series Campus Gateways offers integrated device profiling. This improves client visibility and works with HPE Aruba Networking ClearPass Policy Manager to provide advanced user, device, and IoT policy management and insights.

Configuration Information

BTO Models

AC Powered Gateway

HPE Aruba Networking 9240 Gateways

Rule #	Description	SKU
	HPE Aruba Networking 9240 (US) 4xSFP28 1 Expansion Slot Campus Gateway	R7H95A

- Includes one 550W AC power supply. US regulatory domain (for deployments in USA only).
- SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers

HPE Aruba Networking 9240 (RW) 4xSFP28 1 Expansion Slot Campus Gateway   R7H97A

- Includes one 550W AC power supply. Restricted Regulatory Domain.
- These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel, Japan or Egypt.
- SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers

HPE Aruba Networking 9240 (IL) 4xSFP28 1 Expansion Slot Campus Gateway   R7H99A

- Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Israel only).
- SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers

HPE Aruba Networking 9240 (JP) 4xSFP28 1 Expansion Slot Campus Gateway   R7J00A

- Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Japan only).
- SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers

HPE Aruba Networking 9240 (EG) 4xSFP28 1 Expansion Slot Campus Gateway   R7J01A

- Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Egypt only).
- SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers

Notes:
- Bring in (Min 1 // Max 1) Localized power cord based on the Aruba Localization Menu
- OCA Only Model Selection Form – Aruba > Gateways and Controllers > Mobility Controllers > Campus: HPE Aruba Networking 9200 Series Mobility Controller

TAA Gateways

HPE Aruba Networking 9240 TAA Gateways

Rule #	Description	SKU
	HPE Aruba Networking 9240 (US) TAA 4xSFP28 1 Expansion Slot Campus Gateway	R7J02A

- Includes one 550W AC power supply. US regulatory domain (for deployments in USA only). US FIPS & TAA Compliant.
- SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers

HPE Aruba Networking 9240 (RW) TAA 4xSFP28 1 Expansion Slot Campus Gateway   R7J03A

- Includes one 550W AC power supply. Restricted Regulatory Domain. FIPS & TAA Compliant.
- These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel, Japan or Egypt.
- SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers

HPE Aruba Networking 9240 (IF) TAA 4xSFP28 1 Expansion Slot Campus Gateway   R7J04A

- Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Israel only). IL FIPS & TAA Compliant.
- SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers

HPE Aruba Networking 9240 (JP) TAA 4xSFP28 1 Expansion Slot Campus Gateway   R7J05A

- Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Japan only). JP FIPS & TAA Compliant.
- SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers

HPE Aruba Networking 9240 (EG) TAA 4xSFP28 1 Expansion Slot Campus Gateway   R7J06A

- Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Egypt only). EG FIPS & TAA Compliant.
- SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers

Configuration Information

Transceivers

SFP

Rule #	Description	SKU
	HPE Aruba Networking 9240 1G SFP RJ45 T 100m Cat5e Transceiver	S1H24A
	HPE Aruba Networking 1G SFP LC SX 500m OM2 MMF Transceiver	J4858D
	HPE Aruba Networking 1G SFP LC LX 10km SMF Transceiver	J4859D
	HPE Aruba Networking 1G SFP LC SX 500m MMF TAA Transceiver	JL745A
	HPE Aruba Networking 1G SFP LC LX 10km SMF TAA Transceiver	JL746A

Notes: Supported on the 9240 Models (min0 // max 4)

SFP+

Rule #	Description	SKU
	HPE Aruba Networking 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
	HPE Aruba Networking 10G SFP+ LC LR 10km SMF Transceiver	J9151E
	HPE Aruba Networking 10G SFP+ LC ER 40km SMF Transceiver	J9153D
	HPE Aruba Networking 10G SFP+ LC LR 10km SMF TAA Transceiver	JL749A
	HPE Aruba Networking 10GBASE-T SFP+ RJ45 30m Cat6A Transceiver	JL563B
	HPE Aruba Networking 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
	HPE Aruba Networking 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D
	HPE Aruba Networking 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285D

Notes: Supported on the 9240 Models (min0 // max 4)

SFP28

Rule #	Description	SKU
	HPE Aruba Networking 25G SFP28 LC eSR 400m MMF Transceiver	JL485A
	HPE Aruba Networking 25G SFP28 LC SR 100m MMF Transceiver	JL484A
	HPE Aruba Networking 25G SFP28 LC LR 10km SMF Transceiver	JL486A
	HPE Aruba Networking 25G SFP28 to SFP28 0.65m Direct Attach Cable	JL487A
	HPE Aruba Networking 25G SFP28 to SFP28 3m Direct Attach Copper Cable	JL488A
	HPE Aruba Networking 25G SFP28 to SFP28 5m Direct Attach Copper Cable	JL489A
	HPE Aruba Networking 25G SFP28 to SFP28 3m Active Optical Cable	R0M44A
	HPE Aruba Networking 25G SFP28 to SFP28 7m Active Optical Cable	R0M45A
	HPE Aruba Networking 25G SFP28 to SFP28 15m Active Optical Cable	R0Z21A

Notes: Supported on the 9240 Models (min0 // max 4)

Accessories

Gateway Mount Kits

Std (Min 0 // max 1) User Selection (min 0 // max 1)

Rule #	Description	SKU
	HPE Aruba Networking 9240 Spare Rack Mount Kit	R9D13A

Notes: Only supported on the 9240 Models

Fan Trays

Std (Min 0 // max 1) User Selection (min 0 // max 1)

Rule #	Description	SKU
	HPE Aruba Networking HW-9240-FT 9240 Series Fan Tray	R7J65A

Notes: Only supported on the 9240 Models

Configuration Information

Spares

For 9240 Std (Min 0 // max 99) User Selection (min 0 // max 99)

Rule #	Description	SKU
	HPE Aruba Networking PSU-550-AC 550W AC Power Supply	R7J63A

- Spare 550W PSU

Notes: Bring in (Min 1 // Max 1) Localized power cord based on the Aruba Localization Menu

Software

HPE ArubaOS Software

Std (Min 0 // max 1) User Selection (min 0 // max 1)

License Bundle

Rule #	Description	SKU
2,3	HPE Aruba Networking LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-AW) License Bundle E-LTU	JW471AAE

Licenses

Rule #	Description	SKU
1, 3	HPE Aruba Networking LIC-AP Controller per AP Capacity License E-LTU	JW472AAE
3	HPE Aruba Networking LIC-PEF Controller Policy Enforcement Firewall Per AP License E-LTU	JW473AAE
3	HPE Aruba Networking LIC-RFP Controller RFProtect Per AP License E-LTU	JW474AAE
3, 4	HPE Aruba Networking LIC-VIA Per VIA Client Controller VPN License E-LTU	JZ148AAE
	HPE Aruba Networking LIC-ACR Controller Advanced Cryptography 1 Session License E-LTU	Q9B90AAE

Web Content Classification

Description	SKU
HPE Aruba Networking Controller Web Content Classification 1-year Subscription E-STU	JY028AAE
HPE Aruba Networking Controller Web Content Classification 3-year Subscription E-STU	JY029AAE
HPE Aruba Networking Controller Web Content Classification 5-year Subscription E-STU	JY030AAE
HPE Aruba Networking Controller Web Content Classification 7-year Subscription E-STU	JY031AAE
HPE Aruba Networking Controller Web Content Classification 10-year Subscription E-STU	JY032AAE

Configuration Rules

Rule #	Description
1	For each AP attached to the controller the minimal configuration is 1xLIC-AP(JW472AAE) per AP.
2	LIC-ENT (JW471AAE) is equivalent to 1 each of LIC-AP, LIC-REF, LIC-RFP and LIC-AW. LIC-AW is a device license for AirWave Management system.
3	When Dynamic Segmentation is enabled on the controller, the per AP license count must equal the sum of Aps and switches whose traffic are tunnelled to the controller. In the case of virtual switch stacks, one license will be consumed per stack
4	LIC-VIA license is per VIA user license and is not tied to any particular controller. It can be transferred from one controller to another. LIC-VIA supports centralized licensing and can be managed by Mobility Master or a Master Controller in AOS 8.x deployment.

HPE Aruba Networking Central Subscription

On-Prem Services / Gateway and Controller Foundation Subscriptions

Description	SKU
HPE Aruba Networking Central On-Premises Campus Gateway Ctr Foundation 1 yr Subscription E-STU	R6U58AAE
HPE Aruba Networking Central On-Premises Campus Gateway Ctr Foundation 3 yr Subscription E-STU	R6U59AAE
HPE Aruba Networking Central On-Premises Campus Gateway Ctr Foundation 5 yr Subscription E-STU	R6U60AAE
HPE Aruba Networking Central On-Premises Campus Gateway Ctr Foundation 7 yr Subscription E-STU	R6U61AAE
HPE Aruba Networking Central On-Premises Campus Gateway Ctr Foundation 10 yr Subscription E-STU	R6U62AAE

Configuration Information

	On-Prem Services / Gateway and Controller Foundation Government Subscriptions	
3	HPE Aruba Networking COP Controller Foundation 1-year Government Subscription E-STU	S1P61AAE
3	HPE Aruba Networking COP Controller Foundation 3-year Government Subscription E-STU	S1P62AAE
3	HPE Aruba Networking COP Controller Foundation 5-year Government Subscription E-STU	S1P63AAE
3	HPE Aruba Networking COP Controller Foundation 7-year Government Subscription E-STU	S1P64AAE
3	HPE Aruba Networking COP Controller Foundation 10-year Government Subscription E-STU	S1P65AAE
	Cloud Services / WLAN Gateway Subscriptions	
2	HPE Aruba Networking 92/72xx Gateway WLAN Advanced 1-year Subscription E-STU	S0V01AAE
2	HPE Aruba Networking 92/72xx Gateway WLAN Advanced 3-year Subscription E-STU	S0V02AAE
2	HPE Aruba Networking 92/72xx Gateway WLAN Advanced 5-year Subscription E-STU	S0V03AAE
2	HPE Aruba Networking 92/72xx Gateway WLAN Advanced 7-year Subscription E-STU	S0V04AAE
2	HPE Aruba Networking 92/72xx Gateway WLAN Advanced 10-year Subscription E-STU	S0V05AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Foundation Plus Security 1-year Subscription E-STU	S0S50AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Foundation Plus Security 3-year Subscription E-STU	S0S51AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Foundation Plus Security 5-year Subscription E-STU	S0S52AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Foundation Plus Security 7-year Subscription E-STU	S0S53AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Foundation Plus Security 10-year Subscription E-STU	S0S54AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Advanced Plus Security 1-year Subscription E-STU	S0S55AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Advanced Plus Security 3-year Subscription E-STU	S0S56AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Advanced Plus Security 5-year Subscription E-STU	S0S57AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Advanced Plus Security 7-year Subscription E-STU	S0S58AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Advanced Plus Security 10-year Subscription E-STU	S0S59AAE
2	HPE Aruba Networking 92xx Gateway WLAN Advanced Plus Security 1-year Subscription E-STU	S0V06AAE
2	HPE Aruba Networking 92xx Gateway WLAN Advanced Plus Security 3-year Subscription E-STU	S0V07AAE
2	HPE Aruba Networking 92xx Gateway WLAN Advanced Plus Security 5-year Subscription E-STU	S0V08AAE
2	HPE Aruba Networking 92xx Gateway WLAN Advanced Plus Security 7-year Subscription E-STU	S0V09AAE
2	HPE Aruba Networking 92xx Gateway WLAN Advanced Plus Security 10-year Subscription E-STU	S0V10AAE

Configuration Rules

Rule #	Description
2	Add the Central Cloud SKUs to the Aruba Catalog as Standalone: Aruba > Network Management > Central > Cloud Services
3	Add the Central On-Prem SKUs to the Aruba Catalog as Standalone: Aruba > Network Management > Central > On-Prem Services

Technical Specifications

Performance and Capacity

	Base Hardware	W/ Silver License	W/ Gold License
Replaces	**7210**	**7220**	**7240XM**
Maximum campus or remote Access Points	512	1024	2,048
Maximum concurrent users/devices	16,384	24,576	32,768
Maximum VLANs	4,096	4,096	4,096
Active Firewall Sessions	2,015,291	2,015,291	2,015,291
Concurrent GRE tunnels	8,192	16,384	32,768
Concurrent IPsec sessions	16,384	24,576	32,768
Concurrent SSL sessions	8,192	8,192	8,192
Concurrent tunneled ports	8,192	12,288	16,384
Firewall throughput (Gbps)	20	30	40
Wired bridged throughput (Gbps)	20	30	40
Encrypted throughput GRE (Gbps)	20	30	40
Encrypted Throughput 3DES (Gbps)	20	27	29
Encrypted throughput AES-CBC-128 (Gbps)	20	30	38
Encrypted throughput AES-CBC-256 (Gbps)	20	30	39
Encrypted throughput AES-CCM (Gbps)	20	28	30
Encrypted throughput AES-GCM-128 (Gbps)	20	30	40
Encrypted throughput AES-GCM-256 (Gbps)	20	30	40

Interfaces and Indicators

Form Factor	1 RU
Interface	4x SFP28
Out of Band Management Port	1x RJ45
Console port	USB-C, RJ45
USB 3.0 Type-A	2
LCD Display	1
Power LED	Yes
Status LED	Yes
Peered LED (Reserved for Future Use)	Yes
Expansion Slot (Reserved for Future Use)	1
Power Supply Slots	1 + Redundant
Fan Trays	5

Physical

Dimensions (HxWxD)	1.73" x 17.40" x15.60" (4.4 cm x 44.2cm x 39.6 cm)
Weight	18.08 lbs (8.2 kg)
MTBF (Hours at 25C with Fans and PSU)	185,301

Technical Specifications

Environmental	
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature	−40 °C to 70 °C (−40 °F to 158 °F)
Humidity/Storage Humidity	10% to 90% (RH)/10% to 95% (RH), non-condensing
Operating Altitude	10,000 feet
Acoustic Noise[1]	65.2 dBA (Typ)
Maximum Heat Dissipation (BTU/hour)	648 BTU/hr
Maximum Power Consumption	190W
Power Source	550-watt power supply
Notes: [1]Sound power per ETSI 300 753 in accordance with ISO 7779	

Power Supply Certifications	
Input voltage range	100 VAC to 240 VAC
Output Voltage	12V
Input frequency	50-60 Hz
AC line input current (steady state)	7.1A
Operating Temperature	0° C to 55° C
Cooling	Internal fan (Air flow rear to front)
Weight	0.8Kg

Regulatory And Safety Compliance	
Minimum Supported Software Version	**8.10**
Regulatory SKU information	ARCN9240
Safety certifications	EN 62368-1, Ed.2:2014
	UL 62368-1, 2nd Edition
	CAN/CSA C22.2 No. 62368-1-14
Electromagnetic emissions certifications	FCC Part 15 Class B
	CISPR32 Class B
	EN55032 Class B
	ICES-003 Class B
	EN 61000-3-2
	EN 61000-3-3
	EN55035
	KN32 Class B /KN35
	CNS13438
	AS/NZS CISPR32 Class B
	VCCI Class B
Telco	Common Language Equipment Identifier (CLEI) Code

Service and Warranty Information

Hardware
1-year parts/ labor, can be extended with support contract

Mobility Controller Software
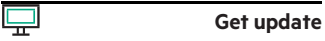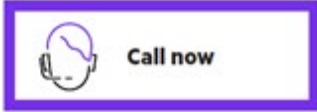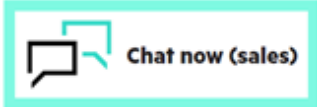90 days, can be extended with support contract

Summary of Changes

Date	Version History	Action	Description of Change
01-Apr-2024	Version 10	Changed	Configuration Information section was updated
04-Mar-2024	Version 9	Changed	Configuration Information section was updated
04-Dec-2023	Version 8	Changed	Series name was updated
06-Nov-2023	Version 7	Changed	Configuration Information section was updated Series name was updated
16-Oct-2023	Version 6	Changed	Configuration Information section was updated
07-Aug-2023	Version 5	Changed	Configuration Information section was updated.
06-Mar-2023	Version 4	Changed	Configuration Information section was updated.
05-Dec-2022	Version 3	Changed	Configuration Information section was updated, new SKUs were also added.
03-Oct-2022	Version 2	Changed	Configuration Information section was updated.
04-Apr-2022	Version 1	New	New QuickSpecs

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