

HPE Aruba Networking 9200 Series Gateway

Enterprise class Wi-Fi performance and reliability at scale



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

Enterprise-class performance

For medium and large enterprises who require high performance and 24x7 reliability, the HPE Aruba Networking 9200 Series Gateway is designed to scale to meet today's and future demands. The 9200 Series Gateway builds upon HPE Aruba Networking'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 9200 Series Gateway 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 Gateway eliminates the need for overprovisioning or frequent hardware refreshes by allowing enterprises to use tier-based pricing to unlock higher capacity levels. New to the 9200 Series Gateway 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).

Flexible consumption

The 9200 Series supports WLAN and SD-WAN deployments with a choice of HPE Aruba Networking Central subscription licenses. HPE GreenLake for Aruba can help with the transition to a subscription-based network consumption model.

Powerful security enforcement

HPE Aruba Networking 9200 Series Gateways deliver 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 9200 Series 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 by 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-ons are required. The HPE Aruba Networking 9200 Series Gateway 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 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, Wi-Fi Calling, FaceTime, SIP, Jabber, Spark, and more.

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

IoT and integration ready

To support IoT and integrate with your existing infrastructure, the 9200 Series 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.

Streaming API

Enables you to subscribe to a select set of topics, instead of polling the NB API to get continuous state and stats messages. Also enables you to write value-added applications based on the aggregated context.

HPE Aruba Networking Central NetConductor

Enables the creation of EVPN/VXLAN overlays with an intuitive, graphical user interface to streamline the adoption of role-based access policies and Dynamic Segmentation at global scale with distributed enforcement.

AI Ops for IT efficiency

AI-powered HPE Aruba Networking Central insights for improved troubleshooting and optimization with AI Search, AI Insights, and AI Assist.



Technical specifications

Performance	Base hardware	w/ Silver license	w/ Gold license
Firewall throughput (Gbps)	20	30	40
Encrypted throughput GRE (Gbps)	20	30	40
Encrypted throughput AES-CBC-128 (Gbps)	20	30	38
Encrypted throughput AES-CBC-256 (Gbps)	20	30	39
Encrypted throughput AES-GCM-128 (Gbps)	20	30	40
Encrypted throughput AES-GCM-256 (Gbps)	20	30	40
Encrypted throughput AES-CCM (Gbps)	20	28	30
AOS 10 specifications			
Minimum supported software version	AOS 10.4	AOS 10.6	AOS 10.6
Cluster size	6	6	6
Maximum clients	32K	48K	64K
Maximum clients per cluster	128K	192K	256K
Max devices (APs)	4K	8K	16K
Max devices (APs) per cluster	8K	16K	32K
Maximum datapath / firewall sessions	4M	4M	4M
Concurrent IPSec tunnels	32K	64K	128K
Total tunnels	40K	80K	160K
ARP	64K	96K	128K
Max DHCP clients	16K	16K	16K
L2 VLAN (IPv4)	4K	4K	4K
L3 VLAN (IPv4)	4K	4K	4K
L3 VLAN (IPv6)	512	512	512
Maximum bridge table	1M	1.5M	2M
Minimum IPv6 neighbors	128K	192K	256K



Technical specifications

	Base hardware	w/ Silver license	w/ Gold license
AOS 10 specifications			
Max IPv4 static routes	4K	4K	4K
Max IPv6 static routes	1K	1K	1K
OSPF routes	57K	57K	57K
Access control lists	2,678	2,678	2,678
Configurable bandwidth contracts	1K	1k	1K
AOS 8 specifications			
Replaces	7210	7220	7240XM
Minimum supported software version		AOS 8.10	
Cluster size	12	12	12
Maximum campus or remote access points	512	1K	2K
Maximum concurrent users/devices	16K	24K	32K
Active firewall sessions	2M	2M	2M
Concurrent GRE tunnels	8K	16K	32K
L2 VLANs	4K	4K	4K
L3 VLANs (IPv4 interfaces)	4K	4K	4K
L3 VLANs (IPv6 interfaces)	128	128	128
Concurrent IPsec sessions	16K	24K	32K
Concurrent SSL sessions	8K	8K	8K
IAP-VPN	6.5K	8K	8K



Technical specifications

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

Environmentals

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



Technical specifications

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	0.8 Kg

Service and warranty information

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

WLAN gateway software: 90 days, can be extended with support contract

Ordering information

Part number	Description
R7H95A	HPE Aruba Networking 9240 (US) Campus Gateway 4xSFP28 1 Expansion Slot
R7H97A	HPE Aruba Networking 9240 (RW) Campus Gateway 4xSFP28 1 Expansion Slot
R7J00A	HPE Aruba Networking 9240 (JP) Campus Gateway 4xSFP28 1 Expansion Slot
R7H99A	HPE Aruba Networking 9240 (IL) Campus Gateway 4xSFP28 1 Expansion Slot
R7J01A	HPE Aruba Networking 9240 (EG) Campus Gateway 4xSFP28 1 Expansion Slot
R7J02A	HPE Aruba Networking 9240 (US) FIPS/TAA Campus Gateway 4xSFP28 1 Expansion Slot
R7J03A	HPE Aruba Networking 9240 (RW) FIPS/TAA Campus Gateway 4xSFP28 1 Expansion Slot
R7J04A	HPE Aruba Networking 9240 (IF) FIPS/TAA Campus Gateway 4xSFP28 1 Expansion Slot
R7J05A	HPE Aruba Networking 9240 (JP) FIPS/TAA Campus Gateway 4xSFP28 1 Expansion Slot
R7J06A	HPE Aruba Networking 9240 (EG) FIPS/TAA Campus Gateway 4xSFP28 1 Expansion Slot



Optional add-on capacity licenses

Part number	Description
R8R13AAE	HPE Aruba Networking 9240 AOS8 Silver Capacity License E-LTU
R8R14AAE	HPE Aruba Networking 9240 AOS8 Gold Capacity License E-LTU
R8R41AAE	HPE Aruba Networking 9240 AOS10 Silver Capacity License E-LTU
R8R42AAE	HPE Aruba Networking 9240 AOS10 Gold Capacity License E-LTU

Learn more at

[9200 Series Ordering Guide](#)

[HPE Aruba Networking Central Ordering Guide](#)

[AOS 10 At A Glance](#)

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