ARUBA 9200 SERIES CAMPUS GATEWAY

Enterprise-class Wi-Fi Performance and Reliability at Scale

The Aruba 9200 Series Campus 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 9200 Series Campus Gateway is designed to scale to meet today's and future demands. The 9200 Series Gateway builds upon 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 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 Aruba 9200 Series Campus 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).

POWERFUL SECURITY ENFORCEMENT

Aruba 9200 Series Campus 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 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 Aruba 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 ons are required. The 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, Skype, Wi-Fi Calling, FaceTime, SIP, Jabber, Spark, and more.

In addition, 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.

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 ClearPass Policy Manager to provide advanced user, device, and IoT policy management and insights.

9240 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

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

[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

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

OPTIONAL ADD-ON CAPACITY LICENSES

Part number	Description
R8R13AAE	Aruba 9240 AOS8 Silver Capacity License E-LTU
R8R14AAE	Aruba 9240 AOS8 Gold Capacity License E-LTU

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