

### Overview

#### Aruba 9000 Gateway

##### Versatile, cost-effective branch networking, SD-WAN, and security

Aruba 9000 Series Gateways provide high-performance networking, SD-WAN and security functionality in compact and cost-effective form factors. Ideally suited for branch and small campus networks, the 9000 Series Gateways serve a key role within Aruba's SD-Branch solution, which unifies WLAN, LAN, SD-WAN and security for distributed enterprises.

The 9000 Series can be easily configured and managed using Aruba Central, a cloud-based network operations, assurance and security platform. Onsite deployment is accomplished with a simple mobile installer application.



Aruba 9004 Gateway

## Overview



### Aruba 9012 Gateway

#### Key Features

- Cloud-managed and purpose-built for branch SDWAN requirements.
- Up to 10 times the performance and 80 times the client density of typical SD-WAN appliances.
- Unified policy enforcement for wired and wireless traffic through Aruba Dynamic Segmentation.
- Visibility into over 3,000 applications with no added hardware.



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## Standard Features

### High Performance And Reliability

For distributed enterprises with increasing performance and bandwidth needs, the 9000 Series is designed with scale and flexibility, and equipped with plenty of horsepower at a competitive price-point.

The 9000 Series provides connectivity for up to 2,048 users or client devices at up to 6 Gbps of firewall throughput.. These capabilities are up to 80 times the client density and 10 times the maximum throughput of typical SD-WAN appliances.

For enhanced resiliency and high availability, multiple 9000 Series can be clustered together at each branch.

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### IoT And Integration Ready

The 9000 Series includes flexible connectivity options, with up to 12 Ethernet ports (6x PoE+) that can be used as access/WAN uplinks, a USB 3.0 port for cellular connectivity, and an IoT radio that supports Bluetooth 5, Zigbee, and Near Field Communication (NFC) wireless protocols.

The gateway also uses integrated device profiling to improve client visibility, and works with Aruba Central, Aruba ClearPass Policy Manager or ClearPass Device Insight to provide advanced user, device and IoT policy management and insights.

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### SD-WAN Deployment

For organizations that are now managing multiple WAN connections, 9000 Series Gateways can be connected to the Aruba SD-WAN fabric right out of the box. SD-WAN is a rich WAN management solution that is used to simplify management of traffic entering and exiting branch sites. Role-based intrusion detection and prevention (IDS/IPS), Dynamic Segmentation, and stateful firewall deliver integrated security requirements.. Please refer to the [SD-WAN datasheet](#) for more information.

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### Branch and Campus Deployment

9000 Series Gateways can also be re-purposed as Mobility Controllers starting with ArubaOS 8.5 software to provide WLAN and LAN services such as Dynamic Segmentation, stateful firewall and live upgrades.. In this mode, the 9000 Series cannot simultaneously be used for SD-WAN. For more information, refer to the [ArubaOS datasheet](#).

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### Microsoft Features

Aruba's integration with Microsoft enables unique application intelligence that detects Microsoft 365 (Office 365), Teams, and Skype for Business traffic and then prioritizes them over less critical applications. Through management interfaces on Aruba Central, ArubaOS, and Aruba AirWave, IT can visualize call quality metrics such as MOS, latency, jitter, and packet loss for additional insights.

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### Extended Features

#### Policy Enforcement Firewall

The 9000 Series includes a Layer 4-7 stateful firewall with PEF to deliver a consistent user, device, and application awareness across WLAN, LAN, and WAN. When deployed alongside Aruba ClearPass Policy Manager, policies are automatically enforced to simplify SSID, VLAN and policy management. This is the foundation of Dynamic Segmentation, and is included within the Foundation, Foundation Base Capacity, and PEF licenses.

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#### Threat Defense with IDS/IPS

To improve security against a growing attack surface, gateways deployed in SD-WAN mode add role and identity-based intrusion detection and prevention capabilities (IDS/IPS) on top of existing security features. The threat defense function is further augmented with one-click integration with third-party cloud-based security solutions. This feature requires the appropriate Threat Defense subscription license.

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## Standard Features

### Application Visibility And Control

Deep Packet Inspection (DPI) technology, which is a component of PEF, 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.

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### High Availability

The 9000 Series Gateways 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.

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### 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.

Available for iOS and Android..

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### Office365, Teams and Skype for Business

The Aruba integration with Microsoft enable unique application insight that detects Office365, Teams and Skype for Business traffic and then prioritizes them over less critical applications. Aruba Central also includes specific call quality heuristics for additional visibility.

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### 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
  - **SD-WAN Gateway Software:** 1, 3, 5, 7, or 10 year subscription licenses
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### SD-WAN Deployment

Refer to the SD-WAN use cases guide for more information on how the gateway can be used. Each gateway requires an Aruba Central software subscription license to enable SD-WAN software features and the use of cloud-based management. The SD-WAN license also enables the use of the entire bandwidth capacity stated in the data sheet for each gateway.

- **For micro-branch deployments,** the 9004 (and 7005 or 7008) gateway can be ordered with a base capacity license that supports up to 75 client devices each.
- **In high availability deployments,** each primary and backup gateway needs to have a separate subscription license applied.

Each SD-WAN Foundation and Foundation Base Capacity subscription includes software support and TAC/phone support. For SD-WAN hardware replacement support, order hardware-only support SKUs through your Aruba value-added reseller (VAR)..

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### SD-WAN Gateway Licenses

#### Foundation Features:

- Management for each 9004 Series
- User role-based access policies
- Dynamic Segmentation: Policy Enforcement Firewall, Layer 7 DPI
- Web content filtering
- Dynamic path steering, policy-based routing
- Routing: Static, dynamic, load-balancing, BGP
- WAN Services: NAT, DHCP
- Extensive WAN visibility
- VPN overlay, hub-spoke
- VIA VPN support
- HA: Active-standby, active-active

#### Foundation Base Features:

- All features above, limited to 75 concurrent endpoints
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## Standard Features

### Mobility Controller Deployment

The Aruba 9004 Series can alternatively be deployed using Aruba Mobility Controller software licenses, where the 9004 will perform just like a 7000 Series or 7200 Series Mobility Controller in a campus or branch access layer deployment. In this mode, the gateway cannot be simultaneously used for SD-WAN. In Mobility Controller mode, the 9004 can also participate in the Aruba Dynamic Segmentation framework, with, at minimum, an access point (AP) license and a Policy Enforcement Firewall (PEF) license for each Aruba access point and switch in the network.

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## Configuration Information

### BTO Models

Remarks	Description	SKU
	<b>9004</b>	
	Aruba 9004 (US) 4-Port GbE RJ45 Gateway	R1B20A
	Aruba 9004 (RW) 4-Port GbE RJ45 Gateway 2K Clients - 32 APs	R1B21A
	Aruba 9004 (JP) 4-Port GbE RJ45 Gateway	R1B22A
	Aruba 9004 (IL) 4-Port GbE RJ45 Gateway	R1B23A
	Aruba 9004 (EG) 4-Port GbE RJ45 Gateway	R1B24A
	Aruba 9004 (RU) 4-Port 1G Base-T Branch Gateway	R6M38A
	<b>9004 TAA</b>	
	Aruba 9004 (US) TAA 4-Port GbE RJ45 Gateway	R1B25A
	Aruba 9004 (RW) TAA 4-Port GbE RJ45 Gateway	R1B26A
	Aruba 9004 (JP) TAA 4-Port GbE RJ45 Gateway	R1B27A
	Aruba 9004 (IL) TAA 4-Port GbE RJ45 Gateway	R1B28A
	Aruba 9004 (EG) TAA 4-Port GbE RJ45 Gateway	R1B29A
	<b>9004 LTE</b>	
	Aruba 9004 (US) 4-Port 10/100/1000BASE-T LTE Branch Gateway	R3V91A
	Aruba 9004 (RW) 4-Port 10/100/1000BASE-T LTE Branch Gateway	R3V90A
	Aruba 9004 (JP) 4-Port 10/100/1000BASE-T LTE Branch Gateway	R3V89A
	Aruba 9004 (IL) 4-Port 10/100/1000BASE-T LTE Branch Gateway	R3V88A
	Aruba 9004 (EG) 4-Port 10/100/1000BASE-T LTE Branch Gateway	R3V87A
	<b>9004 LTE TAA</b>	
	Aruba 9004 (US) FIPS/TAA 4-Port 10/100/1000BASE-T LTE Branch Gateway	R3V96A
	Aruba 9004 (RW) FIPS/TAA 4-Port 10/100/1000BASE-T LTE Branch Gateway	R3V95A
	Aruba 9004 (JP) FIPS/TAA 4-Port 10/100/1000BASE-T LTE Branch Gateway	R3V94A
	Aruba 9004 (IL) FIPS/TAA 4-Port 10/100/1000BASE-T LTE Branch Gateway	R3V93A
	Aruba 9004 (EG) FIPS/TAA 4-Port 10/100/1000BASE-T LTE Branch Gateway	R3V92A
	<b>9012</b>	
	Aruba 9012 (US) 12xGbE	R1B31A
	Aruba 9012 (RW) 12xGbE	R1B32A
	Aruba 9012 (JP) 12xGbE	R1B33A
	Aruba 9012 (IL) 12xGbE	R1B34A
	Aruba 9012 (EG) 12xGbE	R1B35A
	Aruba 9012 (RU) 12 GbE with 6 PoE+ Ports Branch Gateway	R6M39A
	<b>9012 TAA</b>	
	Aruba 9012 (US) TAA 12xGbE	R1B36A
	Aruba 9012 (RW) TAA 12xGbE	R1B37A
	Aruba 9012 (JP) TAA 12xGbE	R1B38A
	Aruba 9012 (IL) TAA 12xGbE	R1B39A
	Aruba 9012 (EG) TAA 12xGbE	R1B40A

**Notes:** Each 9000 model includes a JX990A power adapter  
 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 > Branch / Standalone > Aruba 9000 Series Mobility Controller](#)  
[Aruba > Gateways and Controllers > SD-WAN Gateways > Branch / Standalone > Aruba 9000 Series Branch Gateway](#)



## Configuration Information

### Power Options

Remarks	Description	SKU
	<b>Power Cord For Power Supply</b>	
	PC-AC-ARG AC power cord 250V/10A 1.8m C13 to IRAM 2073	JW113A
	PC-AC-AUS AC power cord 250V/10A 1.8m C13 to AS3112	JW114A
	PC-AC-BR AC power cord 250V/10A 1.8m C13 to NBR 14136	JW115A
	PC-AC-CHN AC power cord 250V/10A 1.8m C13 to GB2099	JW116A
	PC-AC-DEN AC power cord 250V/10A 1.8m C13 to AFSNIT 107-2-D1	JW117A
	PC-AC-EC AC power cord 250V/10A 1.8m C13 to CEE7/7	JW118A
	PC-AC-IN AC power cord 250V/6A 1.8m C13 to IS1293	JW119A
	PC-AC-IL AC power cord 250V/10A 1.8m C13 to SI32	JW120A
	PC-AC-IT AC power cord 250V/10A 1.8m C13 to CEI 23-50	JW121A
	PC-AC-JPN AC power cord 125V/12A 1.8m C13 to JISC 8303	JW122A
	PC-AC-KOR AC power cord 250V/7A 1.8m C13 to KSC 8305	JW123A
	PC-AC-NA AC power cord 125V/10A 1.8m C13 to NEMA 5-15P	JW124A

### Accessories

Remarks	Description	SKU
	<b>Rack Mount Kit</b>	
1, 2	Aruba 9004-MNT-19 9004 Series 19-inch Rack Mount Kit	R1B30A
2, 4	Aruba 9004-LTE-MNT-19 9004-LTE Series 19-inch Rack Mount Kit	R3W17A
	<b>Antenna Extender Kit</b>	
4, 5	Aruba 90xx-LTE Indoor Antenna Extender Kit-20 feet long for use with Indoor LTE and GPS Antenna	R4Y91A
4, 5	Aruba 90xx-LTE Indoor Antenna Extender Kit-40 feet long for use with Indoor LTE and GPS Antenna	R4Y92A
4, 5	Aruba 90xx-LTE Outdoor Antenna Extender Kit-35 ft long for use with Outdoor LTE and GPS Antenna	R4Y93A
	<b>Configuration Rules</b>	
1	<a href="#">This is only available on the 9004/9004 TAA Series Gateway</a>	
2	<a href="#">Min 0 / Max 1</a>	
4	<a href="#">This Rack Mount Kit is only available on the 9004 LTE/9004 LTE TAA Series Gateway</a>	
5	<a href="#">Min 0 // Max 2</a>	
<b>Notes:</b>	<a href="#">9004-MNT-19 can hold up to qty 2 Gateways</a> <a href="#">9004-LTE-MNT-19 can hold up to qty 1 Gateways</a>	

### Spares

Rule #	Description	SKU
	Std (Min 0 // max 99) User Selection (min 0 // max 99)	
1, 2	AP-AC2-12B 12V/48W AC/DC desktop style power adapter with 2.1/5.5mm connector	R3K00A
	Aruba 90xx-LTE Spare Indoor Antenna as a replacement and also for use as GPS Indoor Antenna	R4Y94A
	Aruba 90xx-LTE Spare SIM Tray Kit with Ejector Pin	R4Y95A
3	Aruba 9012-MNT-19 Spare 19-inch Rack Mount Kit for 9012 Gateway	R4X13A
	Aruba 90xx-LTE Spare Outdoor Antenna as a replacement and also for use as GPS Outdoor Antenna	R6M37A
	<b>Configuration Rules</b>	
1	<a href="#">Bring in (Min 1 // Max 1) Localized power cord based on the Aruba Localization Menu</a>	
2	<a href="#">This is only available on the 9004/9004 TAA Series Gateway</a>	
3	<a href="#">This Rack Mount Kit is only available on the 9012/9012 TAA Series Gateway</a>	
<b>Notes:</b>	<a href="#">Power Adapter is included with Aruba 9004/9004 TAA Series Gateway.</a> <a href="#">Internal Power Supply Unit is included with Aruba Gateway 9012/9012 TAA Series Gateway.</a>	



## Configuration Information

Localized power cord is systematically added as a line item on the bill of materials.

### Software

#### Gateway License

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

Rule #	Description	SKU
1	Aruba 70xx or 90xx Gateway Foundation 1yr Subscription E-STU	JZ118AAE
2	Aruba 70xx or 90xx Gateway Foundation 3yr Subscription E-STU	JZ119AAE
3	Aruba 70xx or 90xx Gateway Foundation 5yr Subscription E-STU	JZ120AAE
4	Aruba 70xx or 90xx Gateway Foundation 7yr Subscription E-STU	ROG52AAE
5	Aruba 70xx or 90xx Gateway Foundation 10yr Subscription E-STU	ROG53AAE
1	Aruba 70xx or 90xx Gateway Foundation Base Capacity 1yr Subscription E-STU	JZ124AAE
2	Aruba 70xx or 90xx Gateway Foundation Base Capacity 3yr Subscription E-STU	JZ125AAE
3	Aruba 70xx or 90xx Gateway Foundation Base Capacity 5yr Subscription E-STU	JZ126AAE
4	Aruba 70xx or 90xx Gateway Foundation Base Capacity 7yr Subscription E-STU	ROG56AAE
5	Aruba 70xx or 90xx Gateway Foundation Base Capacity 10yr Subscription E-STU	ROG57AAE
1	Aruba 70xx or 90xx Gateway Advanced 1yr Subscription E-STU	JZ121AAE
2	Aruba 70xx or 90xx Gateway Advanced 3yr Subscription E-STU	JZ122AAE
3	Aruba 70xx or 90xx Gateway Advanced 5yr Subscription E-STU	JZ123AAE
4	Aruba 70xx or 90xx Gateway Advanced 7yr Subscription E-STU	ROG54AAE
5	Aruba 70xx or 90xx Gateway Advanced 10yr Subscription E-STU	ROG55AAE
	<b>Gateway License w/ Threat Defense</b>	
6	Aruba Foundation Security Base 1yr E-STU	R4D93AAE
7	Aruba 90xx Gateway Foundation Base plus Security 3yr Sub E-STU	R4D94AAE
8	Aruba 90xx Gateway Foundation Base plus Security 5yr Sub E-STU	R4D95AAE
9	Aruba 90xx Gateway Foundation Base plus Security 7yr Sub E-STU	R4D96AAE
10	Aruba 90xx Gateway Foundation Base plus Security 10yr Sub E-STU	R4D97AAE
6	Aruba 90xx Gateway Foundation plus Security 1yr Sub E-STU	R4D98AAE
7	Aruba 90xx Gateway Foundation plus Security 3yr Sub E-STU	R4D99AAE
8	Aruba 90xx Gateway Foundation plus Security 5yr Sub E-STU	R4E00AAE
9	Aruba 90xx Gateway Foundation plus Security 7yr Sub E-STU	R4E01AAE
10	Aruba 90xx Gateway Foundation plus Security 10yr Sub E-STU	R4E02AAE
6	Aruba 90xx Gateway Advance plus Security 1yr Sub E-STU	R4E03AAE
7	Aruba 90xx Gateway Advance plus Security 3yr Sub E-STU	R4E04AAE
8	Aruba 90xx Gateway Advance plus Security 5yr Sub E-STU	R4E05AAE
9	Aruba 90xx Gateway Advance plus Security 7yr Sub E-STU	R4E06AAE
10	Aruba 90xx Gateway Advance plus Security 10yr Sub E-STU	R4E07AAE



## Configuration Information

Rule #	Configuration Rules
<b>Notes:</b>	<ul style="list-style-type: none"> <li>- When configuring BTO model, display table of Subscription Type as follows:               <ul style="list-style-type: none"> <li>o Title = "Select License"</li> <li>o ChoiceA = "Gateway License"</li> <li>o ChoiceB = "Gateway License w/ Threat Defense"</li> </ul> </li> <li>- If user selects ChoiceA, then display table of subscription term as follows:               <ul style="list-style-type: none"> <li>o Title "Select Gateway License Term"</li> <li>o ChoiceA1 = "1-Year"</li> <li>o ChoiceA2 = "3-Year"</li> <li>o ChoiceA3 = "5-Year"</li> <li>o ChoiceA4 = "7-Year"</li> <li>o ChoiceA5 = "10-Year"</li> </ul> </li> <li>- If user selects ChoiceB, then display table of subscription term as follows:               <ul style="list-style-type: none"> <li>o Title = "Select Gateway License Term w/ Threat Defense"</li> <li>o ChoiceB1 = "1-Year"</li> <li>o ChoiceB2 = "3-Year"</li> <li>o ChoiceB3 = "5-Year"</li> <li>o ChoiceB4 = "7-Year"</li> <li>o ChoiceB5 = "10-Year"</li> </ul> </li> </ul>
1	If ChoiceA1 is selected, then present this SKU as a selectable option
2	If ChoiceA2 is selected, then present this SKU as a selectable option
3	If ChoiceA3 is selected, then present this SKU as a selectable option
4	If ChoiceA4 is selected, then present this SKU as a selectable option
5	If ChoiceA5 is selected, then present this SKU as a selectable option
6	If ChoiceB1 is selected, then present this SKU as a selectable option
7	If ChoiceB2 is selected, then present this SKU as a selectable option
8	If ChoiceB3 is selected, then present this SKU as a selectable option
9	If ChoiceB4 is selected, then present this SKU as a selectable option
10	If ChoiceB5 is selected, then present this SKU as a selectable option

### Mobility Controller Licenses (Alternate)

Remarks	Description	SKU
	Aruba LIC-AP Controller per AP Capacity License E-LTU	JW472AAE
	Aruba LIC-PEF Controller Policy Enforcement Firewall Per AP License E-LTU	JW473AAE
	Aruba LIC-RFP Controller RFProtect Per AP License E-LTU	JW474AAE
	Aruba LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-AW) Licence Bundle E-LTU	JW471AAE
	Aruba LIC-ACR Controller Advanced Cryptography 1 Session License E-LTU	Q9B90AAE
	Aruba Controller Web Content Classification 1 Year Subscription E-STU	JY028AAE
	Aruba Controller Web Content Classification 3 Year Subscription E-STU	JY029AAE
	Aruba Controller Web Content Classification 5 Year Subscription E-STU	JY030AAE
	Aruba Controller Web Content Classification 7 Year Subscription E-STU	JY031AAE
	Aruba Controller Web Content Classification 10 Year Subscription E-STU	JY032AAE
<b>Notes:</b>	<ul style="list-style-type: none"> <li>- A single 9004 Gateway cannot be simultaneously used for SD-WAN and Mobility Controller functionality.</li> <li>- For each AP attached to the gateway, the minimal configuration is 1 x LIC-AP per AP.</li> <li>- LIC-AW is a device license for the AirWave network management system.</li> <li>- For Dynamic Segmentation, the per-AP license count must equal the sum of APs and switches that are tunneling traffic. For virtual switch stacks, one AP license will be consumed per stack.</li> <li>- LIC-VIA license is a per-user session license that can be transferred from one</li> </ul>	

## Configuration Information

- gateway/controller to another.
- LIC-VIA supports centralized licensing and can be managed by Mobility Master or a master controller in an ArubaOS 8 deployment.

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### Software

#### Central

1	Aruba Central DM 1 Token 1y Sub E-STU	JY925AAE
1	Aruba Central DM 1 Token 3y Sub E-STU	JY926AAE
1	Aruba Central DM 1 Token 5y Sub E-STU	JY927AAE

**Notes:** Includes Network Management and monitoring capabilities

1	Aruba Central Svc 1 Token 1y Sub E-STU	JY928AAE
1	Aruba Central Svc 1 Token 3y Sub E-STU	JY929AAE
1	Aruba Central Svc 1 Token 5y Sub E-STU	JY930AAE
1	Aruba Central 5yr E-Rate Bndl E-STU	JZ017AAE

**Notes:** Enables one of the following services for one access point: Guest WiFi, Presence Analytics, or Clarity. To enable all 3 services, you must order 3 subscriptions for each AP.

1	Aruba Web Enfr IAP 1yr Sub E-STU	JW455AAE
1	Aruba Web Enfr IAP 3yr Sub E-STU	JW456AAE
1	Aruba Web Enfr IAP 5yr Sub E-STU	JW457AAE

**Notes:** Cloud web policy enforcement for 1 AP (NOT required for Access Points with Central Subscription)

3	Aruba COP Campus GW Ctr Fd 1yr Sub E-STU	R6U58AAE
3	Aruba COP Campus GW Ctr Fd 3yr Sub E-STU	R6U59AAE
3	Aruba COP Campus GW Ctr Fd 5yr Sub E-STU	R6U60AAE
3	Aruba COP Campus GW Ctr Fd 7yr Sub E-STU	R6U61AAE
3	Aruba COP Campus GW Ctr Fd 10y Sub E-STU	R6U62AAE

#### Rules:

- |   |   |
|---|---|
| 1 | For use with iQuote. Do not model in OCx as it is already visible in the Aruba Catalog under Network Management.            |
| 3 | Add the Central On-Prem Skus to the Aruba Catalog as Standalone:<br>Aruba > Network Management > Central > On-Prem Services |
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## Technical Specifications

### Deployment Mode

#### SD-WAN Deployment Mode<sup>1</sup>

	<b>9004</b>	<b>9012</b>
<b>Sizing</b>	Small site	Medium site
<b>Maximum clients</b>	Up to 2,048 <sup>1</sup>	Up to 2,048 <sup>1</sup>
<b>Firewall throughput (Gbps)</b>	4	4
<b>Encrypted throughput AES-CCM (Gbps)</b>	2	2
<b>Encrypted throughput (AES-CBC-256) (Gbps)</b>	4	4
<b>Active firewall sessions</b>	64K	64K

#### Mobility Controller Deployment Mode<sup>1</sup>

	<b>9004</b>
<b>Maximum campus or remote Access Points</b>	32
<b>Maximum concurrent users/devices</b>	2,048
<b>Maximum VLANs</b>	4,096
<b>Active firewall sessions</b>	64K
<b>Concurrent GRE tunnels</b>	544
<b>Concurrent IPsec sessions</b>	2,048
<b>Concurrent SSL sessions</b>	2,048
<b>Concurrent tunneled ports</b>	2,048
<b>Firewall throughput (Gbps)</b>	4
<b>Wired bridged throughput (Gbps)</b>	4
<b>Encrypted throughput 3DES (Gbps)</b>	4
<b>Encrypted throughput AES-CBC-256 (Gbps)</b>	4
<b>Encrypted throughput AES-CCM (Gbps)</b>	2
<b>Encrypted throughput AES-GCM-256 (Gbps)</b>	4

#### Notes:

- <sup>1</sup>These modes are only enabled when the appropriate minimum licenses and ArubaOS firmware are deployed:
- SD-WAN Mode – Aruba Central Foundation or Foundation Base Licenses (9004 and 9012 are supported)
- Controller Mode – AP License (9004 supported as of ArubaOS 8.5, and 9012 will be supported in a later release)



## Technical Specifications

Features		
	9004	9012
Form factor/footprint	Desktop/Fanless <sup>4</sup> Optional Mount Rack Tray	Rack mount
100/1000BASE-T	4	12 (6x PoE+ ports)
10G SFP+ Ports (SFP also supported)	N/A	N/A
Bluetooth 5	Yes	Yes
USB 3.0 Type-A	1	2
System status LED	Yes	Yes
WAN ports status LED	Yes	Yes
LAN ports status LED	Yes	Yes
Gateway mode LED	Yes	Yes
Central connectivity status LED <sup>3</sup>	Yes	Yes
Cellular (LTE) status LED	Yes	Yes
Console port	micro USB, RJ-45	micro USB, RJ-45
Dimensions (H x W x D)	3.82 x 19.85 x 15.31 cm (1.5 x 7.815 x 6.03 in)	3.82 x 19.85 x 15.31 cm (1.72 x 15.55 x 10.24 in)
Weight	1.14 Kg (2.52 lbs)	3.42 kg (7.54 lbs)

### Notes:

- <sup>3</sup> LED utilized by the SD-WAN solution
- <sup>4</sup> 1RU can support two 9004 gateways side-by-side using an optional mount kit.

Specification		
	9004	9012
Operating temperature	0 to 40° C (32 to 104° F)	0 to 40° C (32 to 104° F)
Storage temperature	-40 to 70° C (-40 to 158° F)	-40 to 70° C (-40 to 158° F)
Operating humidity	10 to 90% (RH), non-condensing	10 to 90% (RH), non-condensing
Storage humidity	10 to 95% (RH), non-condensing	10 to 95% (RH), non-condensing
Operating altitude	10,000 feet	10,000 feet
Acoustic noise	0 dBA (fanless)	29.1 – 63.5 dBA
Cooling	Conduction cooling	Forced cooling
Maximum power consumption	25 W (with USB)	160W (with 120W of POE)
Power source	12v DC, 2.5A, AC-to-DC power adapter	90 – 264VAC, 47-63Hz, 3A at 100Vrms, internal power supply

Power adapter specifications	
	9004
Input voltage range	90 VAC to 264 VAC
Output voltage	+12VDC, 2.5A
Input frequency	47-63 Hz
AC line input current (steady state)	1.0A
Operating temperature	-0o to +40o C
Cooling	N /A
Weight	0.28 kg (61 lbs)



## Technical Specifications

Regulatory and Safety Compliance		
Description	9004	9012
<b>Regulatory SKU information</b>	<ul style="list-style-type: none"> <li>• ARCN9004</li> </ul>	<ul style="list-style-type: none"> <li>• ARCN9012</li> </ul>
<b>Minimum software versions</b>	<ul style="list-style-type: none"> <li>• SD-WAN R1.7 (default) and Aruba Central 2.5.x in SD-WAN mode, or ArubaOS 8.5.0.0 in Mobility Controller mode.</li> </ul>	<ul style="list-style-type: none"> <li>• SD-WAN R2.0 (default) and Aruba Central 2.5.x in SD-WAN mode, ArubaOS in Mobility Controller mode (future release).</li> </ul>
<b>Safety certifications</b>	<ul style="list-style-type: none"> <li>• UL 60950-1 Second Edition</li> <li>• CAN/CSA-C22.2 No. 60950-1 Second Edition</li> <li>• EN 60950-1 Second Edition</li> <li>• EN 60950:2005</li> <li>• IEC 60950-1 Second Edition</li> <li>• EN/IEC 62368-1 2nd Edition</li> <li>• NOM (obtained by partners and distributors)</li> </ul>	<ul style="list-style-type: none"> <li>• UL 60950-1 Second Edition</li> <li>• CAN/CSA-C22.2 No. 60950-1 Second Edition</li> <li>• EN 60950-1 Second Edition</li> <li>• EN 60950:2005</li> <li>• IEC 60950-1 Second Edition</li> <li>• EN/IEC 62368-1 2nd Edition</li> <li>• NOM (obtained by partners and distributors)</li> </ul>
<b>Electromagnetic emissions certifications</b>	<ul style="list-style-type: none"> <li>• FCC Part 15 Class B</li> <li>• CISPR32 Class B</li> <li>• EN55032 Class B</li> <li>• ICES-003 Class B</li> <li>• VCCI Class B</li> <li>• EN61000-3-2</li> <li>• EN61000-3-3</li> <li>• EN55024</li> <li>• EN301 489-1/-17</li> <li>• KN32 Class B</li> <li>• CNS13438 Class B</li> </ul>	<ul style="list-style-type: none"> <li>• FCC Part 15 Class A</li> <li>• CISPR32 Class A</li> <li>• EN55032 Class A</li> <li>• ICES-003 Class A</li> <li>• VCCI Class A</li> <li>• EN61000-3-2</li> <li>• EN61000-3-3</li> <li>• EN55024</li> <li>• EN301 489-1/-17</li> <li>• KN32 Class A</li> <li>• KN35</li> <li>• KN301 489-1/-17</li> <li>• CNS13438 Class A</li> </ul>
<b>Telco</b>	<ul style="list-style-type: none"> <li>• Common Language Equipment Identifier (CLEI) Code</li> </ul>	<ul style="list-style-type: none"> <li>• Common Language Equipment Identifier (CLEI) Code</li> </ul>
<b>Wireless certifications</b>	<ul style="list-style-type: none"> <li>• FCC/ISED</li> <li>• RED Directive 2014/53/EU</li> <li>• Others: MIC, NCC, ANATEL, COFTEL, CCC</li> </ul>	<ul style="list-style-type: none"> <li>• FCC/ISED</li> <li>• RED Directive 2014/53/EU</li> <li>• Others: MIC, NCC, ANATEL, COFTEL, CCC</li> </ul>



## Summary of Changes

Date	Version History	Action	Description of Change
15-Mar-2021	Version 11	Changed	SKUs added in Configuration Information section.
14-Dec-2020	Version 10	Changed	Standard Features section was updated.
03-Aug-2020	Version 9	Changed	Configuration Information section was updated. New SKUS were added,
06-Jul-2020	Version 8	Changed	Configuration Information section was updated. New SKUS were added,
01-Jun-2020	Version 7	Changed	Configuration Information section was updated.
04-May-2020	Version 6	Changed	Configuration Information section was updated.
06-Apr-2020	Version 5	Changed	Configuration Information section was updated.
03-Feb-2020	Version 4	Changed	Overview, Configuration Information and Technical Specifications sections were updated. New SKUs for 9012 models were added Product Name was updated.
02-Dec-2019	Version 3	Changed	Configuration Information sections was updated.
04-Nov-2019	Version 2	Changed	Standard Features, Configuration Information and Technical Specification sections were updated.
03-Sep-2019	Version 1	New	New QuickSpecs



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