

Overview

HPE Aruba Networking 9000 Series Branch Gateways

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

HPE Aruba Networking 9000 Series Branch 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 HPE Aruba Networking 9000 series serves a key role within HPE Aruba Networking's SD-Branch solution, which unifies WLAN, LAN, SD-WAN and security for distributed enterprises.

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



HPE Aruba Networking 9004 Branch Gateway

Overview



HPE Aruba Networking 9012 Branch 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 dynamic segmentation.
- Visibility into over 3,000 applications with no added hardware.



Standard Features

High Performance and Reliability

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

The HPE Aruba Networking 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 HPE Aruba Networking 9000 series can be clustered together at each branch.

IoT and Integration Ready

The HPE Aruba Networking 9000 Series Branch Gateways 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 HPE Aruba Networking Central, HPE Aruba Networking ClearPass Policy Manager or HPE Aruba Networking ClearPass Device Insight to provide advanced user, device and IoT policy management and insights.

SD-WAN Deployment

For organizations that are now managing multiple WAN connections, HPE Aruba Networking 9000 Series Branch Gateways can be connected to the HPE Aruba Networking 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.

Branch and Campus Deployment

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

Microsoft Features

HPE Aruba Networking'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 HPE Aruba Networking Central, HPE Aruba Networking AOS, and HPE Aruba Networking AirWave, IT can visualize call quality metrics such as MOS, latency, jitter, and packet loss for additional insights.

Extended Features

Policy Enforcement Firewall

The HPE Aruba Networking 9000 Series Branch Gateways 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 HPE Aruba Networking 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.

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.



Standard Features

Policy Enforcement Firewall

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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.

High Availability

The HPE Aruba Networking 9000 Series Branch 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.

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.

Office365, Teams and Skype for Business

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

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 HPE Aruba Networking 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 HPE Aruba Networking 9004 (and 7005 or 7008) Branch Gateways 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 HPE Aruba Networking value-added reseller (VAR).



Standard Features

SD-WAN Gateway Licenses

Foundation Features:

- Management for each HPE Aruba Networking 9004 Branch Gateway 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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Mobility Controller Deployment

The HPE Aruba Networking 9004 Branch Gateway series can alternatively be deployed using HPE Aruba Networking Mobility Controller software licenses, where the HPE Aruba Networking 9004 Gateway will perform just like a HPE Aruba Networking 7000 Branch Gateway series or HPE Aruba Networking 7200 Branch Gateway 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 HPE Aruba Networking 9004 Gateway can also participate in the dynamic segmentation framework, with, at minimum, an access point (AP) license and a Policy Enforcement Firewall (PEF) license for each HPE Aruba Networking access point and switch in the network.



Configuration Information

BTO Models

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

Notes: Each HPE Aruba Networking 9000 model includes a JX990A power adapter
 Bring in (Min 1 // Max 1) Localized power cord based on the HPE Aruba Networking Localization Menu
[OCA Only Model Selection Form](#) –
[HPE Aruba Networking > Gateways and Controllers > Mobility Controllers > Branch / Standalone > HPE Aruba Networking 9000 Series Mobility Controller](#)
[HPE Aruba Networking > Gateways and Controllers > SD-WAN Gateways > Branch / Standalone > HPE Aruba Networking 9000 Series Branch Gateway](#)



Configuration Information

Power Options

Remarks	Description	SKU
	Power Cord For Power Supply	
	PC-AC-ARG AC Power Cord (Argentina) 250V/10A 1.8m C13 to IRAM 2073	JW113A
	PC-AC-AUS AC Power Cord (Australia) 250V/10A 1.8m C13 to AS3112	JW114A
	PC-AC-BR AC Power Cord (Brazil) 250V/10A 1.8m C13 to NBR 14136	JW115A
	PC-AC-CHN AC Power Cord (China) 250V/10A 1.8m C13 to GB2099	JW116A
	PC-AC-DEN AC Power Cord (Denmark) 250V/10A 1.8m C13 to AFSNIT 107-2-D1	JW117A
	PC-AC-EC AC Power Cord (Europe) 250V/10A 1.8m C13 to CEE7/7	JW118A
	PC-AC-IN AC Power Cord (India) 250V/6A 1.8m C13 to IS1293	JW119A
	PC-AC-IL AC Power Cord (Israel) 250V/10A 1.8m C13 to SI32	JW120A
	PC-AC-IT AC Power Cord (Italy) 250V/10A 1.8m C13 to CEI 23-50	JW121A
	PC-AC-JPN AC Power Cord (Japan) 125V/12A 1.8m C13 to JISC 8303	JW122A
	PC-AC-KOR AC Power Cord (Korea) 250V/7A 1.8m C13 to KSC 8305	JW123A
	PC-AC-NA AC Power Cord (North America) 125V/10A 1.8m C13 to NEMA 5-15P	JW124A

Accessories

Remarks	Description	SKU
	Rack Mount Kit	
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
	Antenna Extender Kit	
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
	Configuration Rules	
1	This is only available on the HPE Aruba Networking 9004/9004 TAA Branch Gateway	
2	Min 0 / Max 1	
4	This Rack Mount Kit is only available on the HPE Aruba Networking 9004 LTE/9004 LTE TAA Gateway	
5	Min 0 // Max 2	
Notes:	HPE Aruba Networking 9004-MNT-19 can hold up to qty 2 Gateways HPE Aruba Networking 9004-LTE-MNT-19 can hold up to qty 1 Gateways	

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
	Configuration Rules	
1	Bring in (Min 1 // Max 1) Localized power cord based on the HPE Aruba Networking Localization Menu	
2	This is only available on the 9004/9004 TAA Branch Gateway series	
3	This Rack Mount Kit is only available on the 9012/9012 TAA Series Branch Gateway	



Configuration Information

- Notes:** Power Adapter is included with HPE Aruba Networking 9004/9004 TAA Branch Gateway series.
Internal Power Supply Unit is included with HPE Aruba Networking 9012/9012 TAA Branch Gateway series.
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
11	HPE Aruba Networking 90/70xx Central Gateway Foundation 1-year Subscription SaaS	JZ118AAS
11	HPE Aruba Networking 90/70xx Central Gateway Foundation 3-year Subscription SaaS	JZ119AAS
11	HPE Aruba Networking 90/70xx Central Gateway Foundation 5-year Subscription SaaS	JZ120AAS
11	HPE Aruba Networking 90/70xx Central Gateway Advanced 1-year Subscription SaaS	JZ121AAS
11	HPE Aruba Networking 90/70xx Central Gateway Advanced 3-year Subscription SaaS	JZ122AAS
11	HPE Aruba Networking 90/70xx Central Gateway Advanced 5-year Subscription SaaS	JZ123AAS
11	HPE Aruba Networking 90/70xx Central Gateway Foundation Base Capacity 1-year Subscription SaaS	JZ124AAS
11	HPE Aruba Networking 90/70xx Central Gateway Foundation Base Capacity 3-year Subscription SaaS	JZ125AAS
11	HPE Aruba Networking 90/70xx Central Gateway Foundation Base Capacity 5-year Subscription SaaS	JZ126AAS
11	HPE Aruba Networking 90/70xx Central Gateway Foundation 7-year Subscription SaaS	ROG52AAS
11	HPE Aruba Networking 90/70xx Central Gateway Foundation 10-year Subscription SaaS	ROG53AAS
11	HPE Aruba Networking 90/70xx Central Gateway Advanced 7-year Subscription SaaS	ROG54AAS
11	HPE Aruba Networking 90/70xx Central Gateway Advanced 10-year Subscription SaaS	ROG55AAS
11	HPE Aruba Networking 90/70xx Central Gateway Foundation Base Capacity 7-year Subscription SaaS	ROG56AAS
Gateway License w/ Threat Defense		
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

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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
11	HPE Aruba Networking 90xx Central Gateway Foundation Base Plus Security 1-year Subscription SaaS	R4D93AAS
11	HPE Aruba Networking 90xx Central Gateway Foundation Base Plus Security 3-year Subscription SaaS	R4D94AAS
11	HPE Aruba Networking 90xx Central Gateway Foundation Base Plus Security 5-year Subscription SaaS	R4D95AAS
11	HPE Aruba Networking 90xx Central Gateway Foundation Base Plus Security 7-year Subscription SaaS	R4D96AAS
11	HPE Aruba Networking 90xx Central Gateway Foundation Base Plus Security 10-year Subscription SaaS	R4D97AAS
11	HPE Aruba Networking 90xx Central Gateway Foundation Plus Security 1-year Subscription SaaS	R4D98AAS
11	HPE Aruba Networking 90xx Central Gateway Foundation Plus Security 3-year Subscription SaaS	R4D99AAS
11	HPE Aruba Networking 90xx Central Gateway Foundation Plus Security 5-year Subscription SaaS	R4E00AAS
11	HPE Aruba Networking 90xx Central Gateway Foundation Plus Security 7-year Subscription SaaS	R4E01AAS
11	HPE Aruba Networking 90xx Central Gateway Foundation Plus Security 10-year Subscription SaaS	R4E02AAS
11	HPE Aruba Networking 90xx Central Gateway Advanced Plus Security 1-year Subscription SaaS	R4E03AAS
11	HPE Aruba Networking 90xx Central Gateway Advanced Plus Security 3-year Subscription SaaS	R4E04AAS
11	HPE Aruba Networking 90xx Central Gateway Advanced Plus Security 5-year Subscription SaaS	R4E05AAS
11	HPE Aruba Networking 90xx Central Gateway Advanced Plus Security 7-year Subscription SaaS	R4E06AAS
11	HPE Aruba Networking 90xx Central Gateway Advanced Plus Security 10-year Subscription SaaS	R4E07AAS

Configuration Rules

Rule

Description

Notes:

- When configuring BTO model, display table of Subscription Type as follows:
 - o Title = "Select License"
 - o ChoiceA = "Gateway License"
 - o ChoiceB = "Gateway License w/ Threat Defense"
- If user selects ChoiceA, then display table of subscription term as follows:
 - o Title "Select Gateway License Term"
 - o ChoiceA1 = "1-Year"
 - o ChoiceA2 = "3-Year"
 - o ChoiceA3 = "5-Year"
 - o ChoiceA4 = "7-Year"
 - o ChoiceA5 = "10-Year"
- If user selects ChoiceB, then display table of subscription term as follows:
 - o Title = "Select Gateway License Term w/ Threat Defense"
 - o ChoiceB1 = "1-Year"
 - o ChoiceB2 = "3-Year"
 - o ChoiceB3 = "5-Year"
 - o ChoiceB4 = "7-Year"
 - o ChoiceB5 = "10-Year"

- 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



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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

11 For IRIS reference only. No action required for OCX and Clic

HPE Aruba Networking Central

Cloud Web Policy Enforcement / IAP

1 Aruba SUB1-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 1-year Subscription E-STU JW455AAE

1 Aruba SUB3-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 3-year Subscription E-STU JW456AAE

1 Aruba SUB5-WE-IAP-1 Cloud Web Policy Enforcement for 1 Instant AP 5-year Subscription E-STU JW457AAE

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

Cloud Services / WLAN Gateway Subscriptions

2 HPE Aruba Networking 90/70xx Gateway WLAN Advanced 1-year Subscription E-STU SOU81AAE

2 HPE Aruba Networking 90/70xx Gateway WLAN Advanced 3-year Subscription E-STU SOU82AAE

2 HPE Aruba Networking 90/70xx Gateway WLAN Advanced 5-year Subscription E-STU SOU83AAE

2 HPE Aruba Networking 90/70xx Gateway WLAN Advanced 7-year Subscription E-STU SOU84AAE

2 HPE Aruba Networking 90/70xx Gateway WLAN Advanced 10-year Subscription E-STU SOU85AAE

Cloud Services / WLAN Gateway Foundation Subscriptions

2 HPE Aruba Networking Central WLAN Gateway Foundation 1 year Subscription E-STU R4G90AAE

2 HPE Aruba Networking Central WLAN Gateway Foundation 3 year Subscription E-STU R4G91AAE

2 HPE Aruba Networking Central WLAN Gateway Foundation 5 year Subscription E-STU R4G92AAE

2 HPE Aruba Networking Central WLAN Gateway Foundation 7 year Subscription E-STU R4G93AAE

2 HPE Aruba Networking Central WLAN Gateway Foundation 10 year Subscription E-STU R4G94AAE

2 HPE Aruba Networking Central WLAN Gateway Foundation 1 year Subscription SaaS R4G90AAS

2 HPE Aruba Networking Central WLAN Gateway Foundation 3 year Subscription SaaS R4G91AAS

2 HPE Aruba Networking Central WLAN Gateway Foundation 5 year Subscription SaaS R4G92AAS

2 HPE Aruba Networking Central WLAN Gateway Foundation 7 year Subscription SaaS R4G93AAS

2 HPE Aruba Networking Central WLAN Gateway Foundation 10 year Subscription SaaS R4G94AAS

On-Prem Services / Gateway and Controller Foundation Subscriptions

3 Aruba Central On-Premises Campus Gateway Ctr Foundation 1 yr Subscription E-STU R6U58AAE

3 Aruba Central On-Premises Campus Gateway Ctr Foundation 3 yr Subscription E-STU R6U59AAE

3 Aruba Central On-Premises Campus Gateway Ctr Foundation 5 yr Subscription E-STU R6U60AAE

3 Aruba Central On-Premises Campus Gateway Ctr Foundation 7 yr Subscription E-STU R6U61AAE

3 Aruba Central On-Premises Campus Gateway Ctr Foundation 10 yr Subscription E-STU R6U62AAE

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 Aruba COP Gateway Foundation 7 Year Government Subscription E-STU S1P64AAE

3 Aruba COP Gateway Foundation 10 Year Government Subscription E-STU S1P65AAE

Configuration Rules

Rule #	Description	SKU
1	For use with iQuote. Do not model in OCx as it is already visible in the HPE Aruba Networking Catalog under Network Management.	
2	Add the Central Cloud SKUs to the HPE Aruba Networking Catalog as Standalone: HPE Aruba Networking > Network Management > Central > Cloud Services	
3	Add the Central On-Prem SKUs to the HPE Aruba Networking Catalog as Standalone: HPE Aruba Networking > Network Management > Central > On-Prem Services	



Configuration Information

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 RFPProtect 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
Notes:	<ul style="list-style-type: none"> - A single HPE Aruba Networking 9004 Branch Gateway cannot be simultaneously used for SD-WAN and Mobility Controller functionality. - For each AP attached to the gateway, the minimal configuration is 1 x LIC-AP per AP. - LIC-AW is a device license for the AirWave network management system. - 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. - LIC-VIA license is a per-user session license that can be transferred from one gateway/controller to another. - LIC-VIA supports centralized licensing and can be managed by Mobility Master or a master controller in an HPE Aruba Networking AOS 8 deployment. 	



Technical Specifications

Deployment Mode

SD-WAN Deployment Mode ¹		
	HPE Aruba Networking 9004	HPE Aruba Networking 9012
Sizing	Small site	Medium site
Maximum clients	Up to 2,048 ¹	Up to 2,048 ¹
Firewall throughput (Gbps)	4	4
Encrypted throughput AES-CCM (Gbps)	2	2
Encrypted throughput (AES-CBC-256) (Gbps)	4	4
Active firewall sessions	64K	64K

Mobility Controller Deployment Mode ¹	
	HPE Aruba Networking 9004
Maximum campus or remote Access Points	32
Maximum concurrent users/devices	2,048
Maximum VLANs	4,096
Active firewall sessions	64K
Concurrent GRE tunnels	544
Concurrent IPsec sessions	2,048
Concurrent SSL sessions	2,048
Concurrent tunneled ports	2,048
Firewall throughput (Gbps)	4
Wired bridged throughput (Gbps)	4
Encrypted throughput 3DES (Gbps)	4
Encrypted throughput AES-CBC-256 (Gbps)	4
Encrypted throughput AES-CCM (Gbps)	2
Encrypted throughput AES-GCM-256 (Gbps)	4

Notes:

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



Technical Specifications

Features		
	HPE Aruba Networking 9004	HPE Aruba Networking 9012
Form factor/footprint	Desktop/Fanless ⁴ 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 ³	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:

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

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



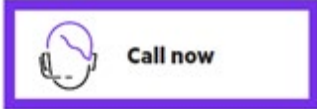
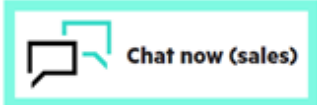
Summary of Changes

Date	Version History	Action	Description of Change
04-Dec-2023	Version 15	Changed	Series name was updated.
06-Nov-2023	Version 14	Changed	Configuration Information section was updated. Series name was updated.
16-Oct-2023	Version 13	Changed	Configuration Information section was updated
05-Dec-2022	Version 12	Changed	Configuration Information section was updated, and new SKUs were added.
15-Mar-2021	Version 11	Changed	SKUs added in Configuration Information section.
14-Dec-2020	Version 10	Changed	The Standard Features section was updated.
03-Aug-2020	Version 9	Changed	The Configuration Information section was updated. New SKUS were added,
06-Jul-2020	Version 8	Changed	The 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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