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HPE Aruba Networking 9000 Series Branch Gateways QuickSpecs

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.

Overview

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.

This 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.

Flexible Consumption

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

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.

Standard Features

Integrated LTE

The 9004-has an integrated LTE module that can use high speed LTE as a dedicated or redundant WAN uplink. The LTE operations are managed via HPE Aruba Networking Central.

Dynamic segmentation and policy enforcement

Protecting and delivering network access across enterprise branch and campus sites is critical and complex. To improve security and simplify management, Dynamic Segmentation eliminates the time consuming and error-prone task of managing complex and static VLANs, ACLs, and subnets by dynamically assigning policies and keeping traffic secure and separated. IT can centrally configure with automatic enforcement of role-based policies that define proper access privileges for employees, guests, contractors, and other user groups– no matter where users connect on wired and WLANs. Additionally, the HPE Aruba Networking 9000 Series relies 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 and policies are automatically enforced to simplify SSID, VLAN and policy management.

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 Management Software (AirWave), IT can visualize call quality metrics such as MOS, latency, jitter, and packet loss for additional insights.

Enhanced Capabilities

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.

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.

Application Visibility Control

Deep Packet Inspection (DPI) technology, which is a component of PEF, consistently evaluates and optimizes performance and usage policies for over 3,800 applications. This ensures the highest possible Quality of Service (QoS) – even for encrypted traffic.

High Availability

This 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 HPE Aruba Networking Mobility Conductor. This increases performance and scale for enhanced resiliency.

Standard Features

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.

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, Wi-Fi Calling, FaceTime, SIP, Jabber, Spark and more.

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.

AIOps for IT Efficiency

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

Configuration Information

BTO Models

Description	SKU
HPE Aruba Networking 9004 Gateway	
HPE Aruba Networking 9004 (US) 4-Port GbE RJ45 2K Clients - 32 APs Gateway	R1B20A
HPE Aruba Networking 9004 (RW) 4-Port GbE RJ45 2K Clients - 32 APs Gateway	R1B21A
HPE Aruba Networking 9004 (JP) 4-Port GbE RJ45 2K Clients - 32 APs Gateway	R1B22A
HPE Aruba Networking 9004 (IL) 4-Port GbE RJ45 2K Clients - 32 APs Gateway	R1B23A
HPE Aruba Networking 9004 (EG) 4-Port GbE RJ45 2K Clients - 32 APs Gateway	R1B24A
HPE Aruba Networking 9004 TAA Gateway	
HPE Aruba Networking 9004 (US) TAA 4-Port 10/100/1000BASE-T Branch 2K Clients - 32 APs Gateway	R1B25A
HPE Aruba Networking 9004 (RW) TAA 4-Port 10/100/1000BASE-T Branch 2K Clients - 32 APs Gateway	R1B26A
HPE Aruba Networking 9004 (JP) TAA 4-Port 10/100/1000BASE-T Branch 2K Clients - 32 APs Gateway	R1B27A
HPE Aruba Networking 9004 (IL) TAA 4-Port 10/100/1000BASE-T Branch 2K Clients - 32 APs Gateway	R1B28A
HPE Aruba Networking 9004 (EG) TAA 4-Port 10/100/1000BASE-T Branch 2K Clients - 32 APs Gateway	R1B29A
HPE Aruba Networking 9004 LTE Gateway	
HPE Aruba Networking 9004 (US) 4-Port 10/100/1000BASE-T LTE 2K Clients - 32 APs Branch Gateway	R3V91A
HPE Aruba Networking 9004 (RW) 4-Port 10/100/1000BASE-T LTE 2K Clients - 32 APs Branch Gateway	R3V90A
HPE Aruba Networking 9004 (JP) 4-Port 10/100/1000BASE-T LTE 2K Clients - 32 APs Branch Gateway	R3V89A
HPE Aruba Networking 9004 (IL) 4-Port 10/100/1000BASE-T LTE 2K Clients - 32 APs Branch Gateway	R3V88A
HPE Aruba Networking 9004 (EG) 4-Port 10/100/1000BASE-T LTE 2K Clients - 32 APs Branch Gateway	R3V87A
HPE Aruba Networking 9004 LTE TAA Gateway	
HPE Aruba Networking 9004 (US) 4-Port 10/100/1000BASE-T 2K Clients with LTE TAA Branch Gateway	R3V96A
HPE Aruba Networking 9004 (RW) 4-Port 10/100/1000BASE-T 2K Clients with LTE TAA Branch Gateway	R3V95A
HPE Aruba Networking 9004 (JP) 4-Port 10/100/1000BASE-T 2K Clients with LTE TAA Branch Gateway	R3V94A
HPE Aruba Networking 9004 (IL) 4-Port 10/100/1000BASE-T 2K Clients with LTE TAA Branch Gateway	R3V93A
HPE Aruba Networking 9004 (EG) 4-Port 10/100/1000BASE-T 2K Clients with LTE TAA Branch Gateway	R3V92A

Configuration Information

HPE Aruba Networking 9012 Gateway

HPE Aruba Networking 9012 (US) 12xGbE 6xPoE+ Branch 2K Clients - 32 APs Gateway	R1B31A
HPE Aruba Networking 9012 (RW) 12xGbE 6xPoE+ Branch 2K Clients - 32 APs Gateway	R1B32A
HPE Aruba Networking 9012 (JP) 12xGbE 6xPoE+ Branch 2K Clients - 32 APs Gateway	R1B33A
HPE Aruba Networking 9012 (IL) 12xGbE 6xPoE+ Branch 2K Clients - 32 APs Gateway	R1B34A
HPE Aruba Networking 9012 (EG) 12xGbE 6xPoE+ Branch 2K Clients - 32 APs Gateway	R1B35A

HPE Aruba Networking 9012 TAA Gateway

HPE Aruba Networking 9012 (US) TAA 12xGbE 6xPoE+ Branch 2K Clients - 32 APs Gateway	R1B36A
HPE Aruba Networking 9012 (RW) TAA 12xGbE 6xPoE+ Branch 2K Clients - 32 APs Gateway	R1B37A
HPE Aruba Networking 9012 (JP) TAA 12xGbE 6xPoE+ Branch 2K Clients - 32 APs Gateway	R1B38A
HPE Aruba Networking 9012 (IL) TAA 12xGbE 6xPoE+ Branch 2K Clients - 32 APs Gateway	R1B39A
HPE Aruba Networking 9012 (EG) TAA 12xGbE 6xPoE+ Branch 2K Clients - 32 APs Gateway	R1B40A

Power Options

Description	SKU
Power Cord for Power Supply	
HPE Aruba Networking PC-AC-ARG 250V/10A 1.8m C13 to IRAM 2073 (AR) AC Power Cord	JW113A
HPE Aruba Networking PC-AC-AUS 250V/10A 1.8m C13 to AS3112 (AU) AC Power Cord	JW114A
HPE Aruba Networking PC-AC-BR 250V/10A 1.8m C13 to NBR 14136 (BR) AC Power Cord	JW115A
HPE Aruba Networking PC-AC-CHN 250V/10A 1.8m C13 to GB2099 (CH) AC Power Cord	JW116A
HPE Aruba Networking PC-AC-DEN 250V/10A 1.8m C13 to AFSNIT 107-2-D1 (DK) AC Power Cord	JW117A
HPE Aruba Networking PC-AC-EC 250V/10A 1.8m C13 to CEE7/7 (EU) AC Power Cord	JW118A
HPE Aruba Networking PC-AC-IN 250V/6A 1.8m C13 to IS1293 (IN) AC Power Cord	JW119A
HPE Aruba Networking PC-AC-IL 250V/10A 1.8m C13 to SI32 (IL) AC Power Cord	JW120A
HPE Aruba Networking PC-AC-IT 250V/10A 1.8m C13 to CEI 23-50 (IT) AC Power Cord	JW121A
HPE Aruba Networking PC-AC-JPN 125V/12A 1.8m C13 to JISC 8303 (JP) AC Power Cord	JW122A
HPE Aruba Networking PC-AC-KOR 250V/7A 1.8m C13 to KSC 8305 (KR) AC Power Cord	JW123A
HPE Aruba Networking PC-AC-NA 125V/10A 1.8m C13 to NEMA 5-15P (NA) AC Power Cord	JW124A

Accessories

Description	SKU
Rack Mount Kit	
HPE Aruba Networking 9004-MNT-19 9004 Series 19-inch Rack Mount Kit	R1B30A
HPE Aruba Networking 9004-LTE-MNT-19 9004-LTE Series 19-inch Rack Mount Kit	R3W17A

Configuration Information

Antenna Extender Kit

HPE Aruba Networking 90xx-LTE Indoor Antennas Extender Kit 20 ft with Indoor LTE and GPS Antennas	R4Y91A
HPE Aruba Networking 90xx-LTE Indoor Antennas Extender Kit 40 ft with Indoor LTE and GPS Antennas	R4Y92A
HPE Aruba Networking 90xx-LTE Outdoor Extender Kit 35 ft with Outdoor LTE and GPS Antennas	R4Y93A

Spares

Description	SKU
Std (Min 0 // max 99) User Selection (min 0 // max 99)	
HPE Aruba Networking AP-AC2-12B 12V/48W AC/DC Desktop Style Power Adapter with 2.1/5.5mm Connector	R3K00A
HPE Aruba Networking 90xx-LTE Spare Indoor Antennas Replacement and GPS Antennas	R4Y94A
HPE Aruba Networking 90xx-LTE Spare SIM Tray Kit with Ejector Pin	R4Y95A
HPE Aruba Networking 9012-MNT-19 9012 Gateway Spare 19-inch Rack Mount Kit	R4X13A
HPE Aruba Networking 90xx-LTE Spare Outdoor Replacement and GPS Antennas	R6M37A
HPE Aruba Networking USB Extender Cable Kit	R8G76A

Software

Gateway License

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

Description	SKU
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation 1-year Subscription E-STU	JZ118AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation 3-year Subscription E-STU	JZ119AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation 5-year Subscription E-STU	JZ120AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation 7-year Subscription E-STU	R0G52AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation 10-year Subscription E-STU	R0G53AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation Base Capacity 1-year Subscription E-STU	JZ124AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation Base Capacity 3-year Subscription E-STU	JZ125AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation Base Capacity 5-year Subscription E-STU	JZ126AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation Base Capacity 7-year Subscription E-STU	R0G56AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation Base Capacity 10-year Subscription E-STU	R0G57AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Advanced 1-year Subscription E-STU	JZ121AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Advanced 3-year Subscription E-STU	JZ122AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Advanced 5-year Subscription E-STU	JZ123AAE

Configuration Information

HPE Aruba Networking 90/70xx SD-Branch Gateway Advanced 7-year Subscription E-STU	R0G54AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Advanced 10-year Subscription E-STU	R0G55AAE
HPE Aruba Networking 90/70xx Central On-Premises Gateway WLAN Advanced 1-year Subscription E-STU	S6D86AAE
HPE Aruba Networking 90/70xx Central On-Premises Gateway WLAN Advanced 3-year Subscription E-STU	S6D87AAE
HPE Aruba Networking 90/70xx Central On-Premises Gateway WLAN Advanced 5-year Subscription E-STU	S6D88AAE
HPE Aruba Networking 90/70xx Central On-Premises Gateway WLAN Advanced 7-year Subscription E-STU	S6D89AAE
HPE Aruba Networking 90/70xx Central On-Premises Gateway WLAN Advanced 10-year Subscription E-STU	S6D90AAE
HPE Aruba Networking 90/70xx Gateway WLAN Advanced 1-year Subscription E-STU	S0U81AAE
HPE Aruba Networking 90/70xx Gateway WLAN Advanced 3-year Subscription E-STU	S0U82AAE
HPE Aruba Networking 90/70xx Gateway WLAN Advanced 5-year Subscription E-STU	S0U83AAE
HPE Aruba Networking 90/70xx Gateway WLAN Advanced 7-year Subscription E-STU	S0U84AAE
HPE Aruba Networking 90/70xx Gateway WLAN Advanced 10-year Subscription E-STU	S0U85AAE
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation 1-year Subscription SaaS	JZ118AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation 3-year Subscription SaaS	JZ119AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation 5-year Subscription SaaS	JZ120AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Advanced 1-year Subscription SaaS	JZ121AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Advanced 3-year Subscription SaaS	JZ122AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Advanced 5-year Subscription SaaS	JZ123AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation Base Capacity 1-year Subscription SaaS	JZ124AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation Base Capacity 3-year Subscription SaaS	JZ125AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation Base Capacity 5-year Subscription SaaS	JZ126AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation 7-year Subscription SaaS	R0G52AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation 10-year Subscription SaaS	R0G53AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Advanced 7-year Subscription SaaS	R0G54AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Advanced 10-year Subscription SaaS	R0G55AAS
HPE Aruba Networking 90/70xx SD-Branch Gateway Foundation Base Capacity 7-year Subscription SaaS	R0G56AAS

Configuration Information

Gateway License w/ Threat Defense

HPE Aruba Networking 90xx SD-Branch Gateway Foundation Base Plus Security 1-year Subscription E-STU	R4D93AAE
HPE Aruba Networking 90xx SD-Branch Gateway Foundation Base Plus Security 3-year Subscription E-STU	R4D94AAE
HPE Aruba Networking 90xx SD-Branch Gateway Foundation Base Plus Security 5-year Subscription E-STU	R4D95AAE
HPE Aruba Networking 90xx SD-Branch Gateway Foundation Base Plus Security 7-year Subscription E-STU	R4D96AAE
HPE Aruba Networking 90xx SD-Branch Gateway Foundation Base Plus Security 10-year Subscription E-STU	R4D97AAE
HPE Aruba Networking 90xx SD-Branch Gateway Foundation Plus Security 1-year Subscription E-STU	R4D98AAE
HPE Aruba Networking 90xx SD-Branch Gateway Foundation Plus Security 3-year Subscription E-STU	R4D99AAE
HPE Aruba Networking 90xx SD-Branch Gateway Foundation Plus Security 5-year Subscription E-STU	R4E00AAE
HPE Aruba Networking 90xx SD-Branch Gateway Foundation Plus Security 7-year Subscription E-STU	R4E01AAE
HPE Aruba Networking 90xx SD-Branch Gateway Foundation Plus Security 10-year Subscription E-STU	R4E02AAE
HPE Aruba Networking 90xx SD-Branch Gateway Advanced Plus Security 1-year Subscription E-STU	R4E03AAE
HPE Aruba Networking 90xx SD-Branch Gateway Advanced Plus Security 3-year Subscription E-STU	R4E04AAE
HPE Aruba Networking 90xx SD-Branch Gateway Advanced Plus Security 5-year Subscription E-STU	R4E05AAE
HPE Aruba Networking 90xx SD-Branch Gateway Advanced Plus Security 7-year Subscription E-STU	R4E06AAE
HPE Aruba Networking 90xx SD-Branch Gateway Advanced Plus Security 10-year Subscription E-STU	R4E07AAE
HPE Aruba Networking 90xx Central Gateway Foundation Base Plus Security 1-year Subscription SaaS	R4D93AAS
HPE Aruba Networking 90xx Central Gateway Foundation Base Plus Security 3-year Subscription SaaS	R4D94AAS
HPE Aruba Networking 90xx Central Gateway Foundation Base Plus Security 5-year Subscription SaaS	R4D95AAS
HPE Aruba Networking 90xx Central Gateway Foundation Base Plus Security 7-year Subscription SaaS	R4D96AAS
HPE Aruba Networking 90xx Central Gateway Foundation Base Plus Security 10-year Subscription SaaS	R4D97AAS
HPE Aruba Networking 90xx Central Gateway Foundation Plus Security 1-year Subscription SaaS	R4D98AAS
HPE Aruba Networking 90xx Central Gateway Foundation Plus Security 3-year Subscription SaaS	R4D99AAS
HPE Aruba Networking 90xx Central Gateway Foundation Plus Security 5-year Subscription SaaS	R4E00AAS
HPE Aruba Networking 90xx Central Gateway Foundation Plus Security 7-year Subscription SaaS	R4E01AAS
HPE Aruba Networking 90xx Central Gateway Foundation Plus Security 10-year Subscription SaaS	R4E02AAS
HPE Aruba Networking 90xx Central Gateway Advanced Plus Security 1-year Subscription SaaS	R4E03AAS

Configuration Information

HPE Aruba Networking 90xx Central Gateway Advanced Plus Security 3-year Subscription SaaS	R4E04AAS
HPE Aruba Networking 90xx Central Gateway Advanced Plus Security 5-year Subscription SaaS	R4E05AAS
HPE Aruba Networking 90xx Central Gateway Advanced Plus Security 7-year Subscription SaaS	R4E06AAS
HPE Aruba Networking 90xx Central Gateway Advanced Plus Security 10-year Subscription SaaS	R4E07AAS

HPE Aruba Networking Central

Cloud Web Policy Enforcement / IAP

HPE Aruba Networking SUB1-WE-IAP-1 Cloud Web Policy Enforcement 1 Instant AP 1y Subscription E-STU	JW455AAE
HPE Aruba Networking SUB3-WE-IAP-1 Cloud Web Policy Enforcement 1 Instant AP 3y Subscription E-STU	JW456AAE
HPE Aruba Networking SUB5-WE-IAP-1 Cloud Web Policy Enforcement 1 Instant AP 5y Subscription E-STU	JW457AAE

Cloud Services / WLAN Gateway Subscriptions

HPE Aruba Networking 90/70xx Gateway WLAN Advanced 1-year Subscription E-STU	S0U81AAE
HPE Aruba Networking 90/70xx Gateway WLAN Advanced 3-year Subscription E-STU	S0U82AAE
HPE Aruba Networking 90/70xx Gateway WLAN Advanced 5-year Subscription E-STU	S0U83AAE
HPE Aruba Networking 90/70xx Gateway WLAN Advanced 7-year Subscription E-STU	S0U84AAE
HPE Aruba Networking 90/70xx Gateway WLAN Advanced 10-year Subscription E-STU	S0U85AAE

On-Prem Services / Gateway and Controller Foundation Subscriptions

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

On-Prem Services / Gateway and Controller Foundation Government Subscriptions

HPE Aruba Networking COP Controller Foundation 1-year Government Subscription E-STU	S1P61AAE
HPE Aruba Networking COP Controller Foundation 3-year Government Subscription E-STU	S1P62AAE
HPE Aruba Networking COP Controller Foundation 5-year Government Subscription E-STU	S1P63AAE
HPE Aruba Networking COP Controller Foundation 7-year Government Subscription E-STU	S1P64AAE
HPE Aruba Networking COP Controller Foundation 10-year Government Subscription E-STU	S1P65AAE

Configuration Information

Mobility Controller Licenses (Alternate)

Description	SKU
HPE Aruba Networking LIC-AP Controller per AP Capacity License E-LTU	JW472AAE
HPE Aruba Networking LIC-PEF Controller Policy Enforcement Firewall Per AP License E-LTU	JW473AAE
HPE Aruba Networking LIC-RFP Controller RFProtect Per AP License E-LTU	JW474AAE
HPE Aruba Networking LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-AW) License Bundle E-LTU	JW471AAE
HPE Aruba Networking LIC-ACR Controller Advanced Cryptography 1 Session License E-LTU	Q9B90AAE
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

Technical Specifications

9000 Series Technical Specifications			
	9004	**9004-LTE**	**9012**
Interfaces	4x GbE[1]	4x GbE + 4G cellular	12x GbE
Notes: [1]The 9004 was originally released (8.5) to operate in an Auto/Auto configuration. A software fix was introduced in 8.7.1.5, 8.8.0.2, 10.2.0.3, and SDWAN-2.3.0.2, which allows users to configure the speed and duplex of the interfaces on the 9004 to: Auto/Auto, 1000/Full, or 100/Full. – Speed Configuration: The 9004 Interface speed can now be set to Auto/1000/100. – Full Duplex Configuration: 9004 Interface: Auto – Partnering Device Duplex Configuration: Full – Partnering Device Auto Negotiation: Enabled			
Power over Ethernet	x	x	120W
Firewall throughput (Gbps)	4	4	6
Encrypted throughput GRE (Gbps)	4	4	6
Encrypted throughput AES-CBC-128 (Gbps)	4	4	4
Encrypted throughput AES-CBC-256 (Gbps)	4	4	4
Encrypted throughput AES-GCM-128 (Gbps)	4	4	6
Encrypted throughput AES-GCM-256 (Gbps)	4	4	6
AOS-10 Specifications			
Minimum supported software version	AOS 10.4		
Cluster size	4	4	4
Maximum clients (User MAC)	2K	2K	2K
Maximum clients per cluster	8K	8K	8K
Maximum devices (APs)	128	128	256
Maximum devices (APs) per cluster	512	512	768
Maximum datapath / firewall sessions	128K	128K	128K
Maximum bridge table	64K	64K	64K
Firewall session creation rate (1000 sessions per sec)	130	130	130
L2 VLANs	4K	4K	4K
L3 VLANs (IPv4 interfaces)	128	128	128
L3 VLANs (IPv6 interfaces)	128	128	128
Concurrent IPSec tunnels	2K	2K	2K
ARP	2K	2K	2K
Maximum DHCP clients	4K	4K	4K
IPv4 static routes	2K	2K	2K

Technical Specifications

IPv6 neighbours	7K	7K	7K
IPv6 static routes	577	577	577
Maximum OSPF routes	8K	8K	8K
ACLs	2678	2678	2678
Configurable bandwidth contracts	1024	1024	1024
AOS-8			
Minimum supported software version	AOS 8.5	Not supported	AOS 8.7
Cluster size	4		4
Maximum campus or Remote Access Points	32		64[1]
Notes: [1]On software versions lower than AOS 8.12, the 9012 will only support 32 APs.			
Maximum concurrent users	2K		2K
Maximum BSSIDs	512		512
Maximum datapath / firewall sessions	64K		64K
Maximum bridge table	64K		64K
IPv4 static routes	2K		2K
IPV6 neighbours	7K		7K
IPV6 static routes	577		577
Maximum VLANs	4K		4K
Concurrent IPsec sessions	2K		2K
Concurrent SSL sessions	2K		2K
Concurrent GRE tunnels	544		544
Maximum IAP-VPNs	129		129
Maximum DHCP clients	2K		2K

Technical Specifications

Interfaces and Indicators

Features	9004/9004-LTE	9012
Form factor/footprint	Desktop/fanless[2] Optional mount rack tray	Rack mount
Notes: [2]1RU can support two 9004 gateways side-by-side using an optional mount kit.		
100/1000BASE-T	4	12 (6x PoE+ ports)
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[1]	Yes	Yes
Notes: [1]LED utilized by the SD-WAN solution		
Cellular (LTE) status LED	Yes	Yes
Console port	micro USB, RJ45	micro USB, RJ45

Integrated LTE

Available on the 9004-LTE only	
Downlink/uplink speed	600/150 Mbps
LTE category	12
Connectors	2xSMA connectors for main and diversity antenna 1xSMA connector for GPS antenna
Bands Supported	
Regions supported	Global Worldwide LTE-A and UMTS/HSPA+ coverage
LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B21/B25/B26/B28/B29/B30/B32/B66
LTE-TDD	B38/39/B40/B41
2 x CA	B1+B3/B5/B18/B19/B20/B21/B26; B2+B2/B4/B5/B12/B13/B17/B29/B30/B66; B3+B3/B5/B7/B8/B19/B20/B28; B4+B4/B5/B12/B13/B17/B29/B30; B5+B7/B25/B30/B66; B7+B7/B20/B28; B12+B25/B30; B13+B66; B20+B32; B25+B25/B26/B41; B29+B30; B38+B38; B40+B40; B41+B41; B66+B66
3 x CA	DL inter-band 3CA: B1+B3+B7; B1+B3+B19; B1+B3+B20; B1+B19+B21; B2+B4+B5; B2+B4+B13; B2+B5+B30; B2+B12+B30; B2+B29+B30; B3+B7+B20; B3+B7+B28; B4+B5+B30; B4+B12+B30; B4+B29+B30; B5+B66+B2; B13+B66+B2 DL 2 contiguous plus inter-band 3CA: B2+B2+B5; B2+B2+B13; B3+B3+B7; B3+B7+B7; B3+B3+B20; B4+B4+B5; B4+B4+B13; B5+B66+B66; B13+B66+B66; B66+B66+B2; B66+B66+B66
UMTS	B1/B2/B3/B4/B5/B8/B19
Certifications	CE/ FCC/ IC/ NCC/ RCM/ GCF*/ PTCRB*/ ICASA* / WHQL AT&T, Verizon, T-Mobile

Technical Specifications

Physical		
	9004/9004-LTE	**9012**
Dimensions (H x W x D)	3.82 cm x 19.85 cm x 15.31 cm (1.5" x 7.815" x 6.03")	4.37 cm x 39.5 cm x 26.00 cm (1.72" x 15.55" x 10.24")
Weight	1.143 kg (2.519 lbs)	3.42 kg (7.54 lbs)

Environmental Range		
Specification	**9004/9004-LTE**	**9012**
Operating temperature	0° C to 40° C (32° C to 104° F)	0° C to 40° C (32° C to 104° F)
Storage temperature	-40° C to 70° C (-40° F to 158° F)	-40° C to 70° C (-40° F 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 (fan less)	29.1 – 63.5 dBA
Cooling	Conduction cooling	Forced cooling
Maximum power consumption	25W (with USB)	160W (with 120W of PoE)
Power source	12v DC, 2.5A AC-to-DCpower adapter	Internal Power Supply 90VAC – 264VAC 47-63Hz 3A at 100Vrms

Power Adapter Specifications	
Features	**9004/9004-LTE**
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	-0° to +40° C
Cooling	–
Weight	0.28 kg (.61 lbs)

Technical Specifications

Regulatory and Safety Compliance

Description	9004/9004-LTE	9012
Minimum supported software version		
AOS-10	AOS 10.3.1.1 (SSR) AOS 10.3.1.1 (SSR)	AOS 10.3.1.1 (SSR) AOS 10.3.1.1 (SSR)
AOS-8 (WLAN gateway mode)	9004: 8.5.0.5 9004-LTE: Not Supported	8.7.1.1 or 8.8.0.0
SD-Branch	9004: SD-WAN R1.7 and Central 2.5.x in SD-WAN mode 9004-LTE: SD-WAN R2.2.0.2 or R2.3.0.0 and Central 2.51.x in SD-WAN mode	SD-WAN R2.2.0.2 or R2.3.0.0 and Central 2.5.x in SD-WAN mode
Regulatory SKU information	ARCN9004 / ARCN9004LTE	ARCN9012
Safety certifications	UL 60950-1 Second Edition	UL 60950-1 Second Edition
	CAN/CSA-C22.2 No. 60950-1 Second Edition	CAN/CSA-C22.2 No. 60950-1 Second Edition
	EN 60950-1 Second Edition	EN 60950-1 Second Edition
	EN 60950:2005	EN 60950:2005
	IEC 60950-1 Second Edition	IEC 60950-1 Second Edition
	EN/IEC 62368-1 2nd Edition	EN/IEC 62368-1 2nd Edition
	NOM (obtained by partners and distributors)	NOM (obtained by partners and distributors)
Electromagnetic emissions certifications	FCC Part 15 Class B	FCC Part 15 Class A
	CISPR32 Class B	CISPR32 Class A
	EN55032 Class B	EN55032 Class A
	ICES-003 Class B	ICES-003 Class A
	EN61000-3-2	EN61000-3-2
	EN61000-3-3	EN61000-3-3
	EN55024, EN301 489-1/-17, EN301 489-52 (9004-LTE)	EN55024, EN301 489-1/-17
	KN32 Class B , KN35, KN301 489-1/-17, KN301 489–52 (9004-LTE)	KN32 Class A, KN35, KN301 489-1/-17
	CNS13438 Class B	CNS13438 Class A
Telco	Common Language Equipment Identifier (CLEI) Code	Common Language Equipment Identifier (CLEI) Code
Wireless certifications	FCC/ISED	FCC/ISED
	RED Directive 2014/53/EU	RED Directive 2014/53/EU
	Others: MIC, NCC, ANATEL, COFTEL, CCC	Others: MIC, NCC, ANATEL, COFTEL, CCC

Summary of Changes

Date	Version History	Action	Description of Change
15-Jun-2026	Version 20	Changed	New Spare SKU added in Configuration Information section: R8G76A.
05-Jan-2026	Version 19	Changed	SKUs added in Configuration Information section.
16-Dec-2024	Version 18	Changed	Standard Features section was updated
18-Nov-2024	Version 17	Changed	Overview, Standard Features, Configuration Information, sections were updated.
03-Sep-2024	Version 16	Changed	Overview, Standard Features, Configuration Information, and Technical Specifications sections were updated.
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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