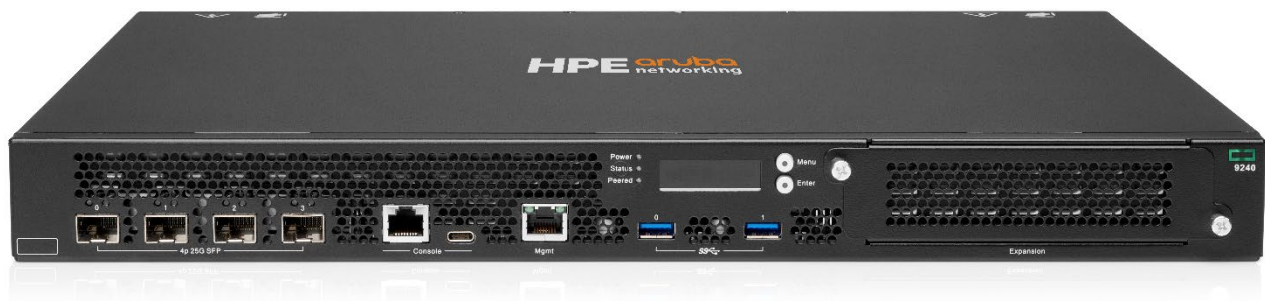


Overview

HPE Aruba Networking 9200 Series Campus Gateways

Enterprise-Class Wi-Fi Performance and Reliability at Scale

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



HPE Aruba Networking 9200 Series Campus Gateways

Standard Features

Enterprise-Class Performance

For medium and large enterprises who require high performance and 24x7 reliability, the HPE Aruba Networking 9200 Series is designed to scale to meet today's and future demands. This gateway builds upon HPE Aruba Networking legacy 7200 Series Gateways to provide next-generation connectivity for up to 2,048 Aps and 32,000 devices.

To ensure high availability, the gateway supports live upgrades and multiple gateways can be clustered together at each location for business continuity. Zero touch provisioning eliminates the need for on-site IT support.

Investment Protection

The HPE Aruba Networking 9200 Series Campus Gateway removes the need for overprovisioning or frequent hardware refreshes with software upgrade licenses that unlock additional capacity with no hardware refresh required. Enterprises can opt for hardware only (20 Gbps total throughput, 512 Aps/16K devices) or for greater capacity they can add silver perpetual licenses (30 Gbps total throughput, 1K Aps/24K devices) or gold perpetual licenses (40 Gbps total throughput, 2K Aps/32K devices).

Flexible Consumption

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

Powerful Security Enforcement

HPE Aruba Networking 9200 Series Campus Gateway delivers consistent policy enforcement across wired and wireless via dynamic segmentation. Traffic is tunneled to the gateway where granular rules are applied for any user, location, application, or device type – including IoT. For example, traffic can be segmented based on a defined set of user types such as guest, contractor, or employee to provide greater levels of security.

To deliver unified policy enforcement, these gateways rely on a built-in Layer 4-7 stateful firewall known as the policy enforcement firewall (PEF). It streamlines policy management by working across WLAN, LAN, and WAN. When deployed alongside HPE Aruba Networking ClearPass Policy Manager, policies are automatically enforced to simplify SSID, VLAN, and policy management.

Advanced Capabilities

Seamless Roaming

Users often experience delays and application disconnects when they move from one subnet to another, for example on a large campus. This is caused by the designation of a single subnet per building, which restricts the roaming domain to a specific building. When roaming across buildings, application persistence is lost and new sign-on is required. The HPE Aruba Networking 9200 Series Campus supports tunneling so that two disparate networks can connect directly to one another, bypassing normal routing rules and allowing a station to maintain the same Layer 3 address when roaming throughout a multi-VLAN network to improve the mobile user experience.

Quality of Service

Deep Packet Inspection provides greater application visibility and control. As a part of the policy enforcement firewall, the gateway consistently evaluates and optimizes performance and usage policies for over 3,000 applications. This ensures the highest possible Quality of Service (QoS) – even for encrypted traffic.

Redundancy and Clustering

HPE Aruba Networking 9000 Series can be deployed with N+1 or NxN redundancy and can also join a controller cluster when deployed as a mobility controller managed by Mobility Conductor. This increases performance and scale for enhanced resiliency.

Simple to use, mobile provisioning

Allows on-site personnel to use a mobile app to onboard gateways. A central IT team can verify device location, licenses, and status with no additional steps required.

Unified Communications and Collaboration (UCC)

Visualize and troubleshoot networks based on call quality metrics such as MOS, latency, jitter, and packet loss. Supported applications include Teams, Zoom, Skype, Wi-Fi Calling, FaceTime, SIP, Jabber, Spark, and more.



Standard Features

IoT and Integration Ready

To support IoT and integrate with your existing infrastructure, HPE Aruba Networking 9200 Series offers integrated device profiling. This improves client visibility and works with HPE Aruba Networking ClearPass Policy Manager to provide advanced user, device, and IoT policy management and insights.



Configuration Information

BTO Models

AC Powered Gateway

HPE Aruba Networking 9240 Gateways

Rule #	Description	SKU
	HPE Aruba Networking 9240 (US) 4xSFP28 1 Expansion Slot Campus Gateway	R7H95A
	<ul style="list-style-type: none"> Includes one 550W AC power supply. US regulatory domain (for deployments in USA only). SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers 	
	HPE Aruba Networking 9240 (RW) 4xSFP28 1 Expansion Slot Campus Gateway	R7H97A
	<ul style="list-style-type: none"> Includes one 550W AC power supply. Restricted Regulatory Domain. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel, Japan or Egypt. SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers 	
	HPE Aruba Networking 9240 (IL) 4xSFP28 1 Expansion Slot Campus Gateway	R7H99A
	<ul style="list-style-type: none"> Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Israel only). SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers 	
	HPE Aruba Networking 9240 (JP) 4xSFP28 1 Expansion Slot Campus Gateway	R7J00A
	<ul style="list-style-type: none"> Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Japan only). SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers 	
	HPE Aruba Networking 9240 (EG) 4xSFP28 1 Expansion Slot Campus Gateway	R7J01A
	<ul style="list-style-type: none"> Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Egypt only). SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers 	
Notes:	<ul style="list-style-type: none"> 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 > Campus: HPE Aruba Networking 9200 Series Mobility Controller 	

TAA Gateways

HPE Aruba Networking 9240 TAA Gateways

Rule #	Description	SKU
	HPE Aruba Networking 9240 (US) TAA 4xSFP28 1 Expansion Slot Campus Gateway	R7J02A
	<ul style="list-style-type: none"> Includes one 550W AC power supply. US regulatory domain (for deployments in USA only). US FIPS & TAA Compliant. SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers 	
	HPE Aruba Networking 9240 (RW) TAA 4xSFP28 1 Expansion Slot Campus Gateway	R7J03A
	<ul style="list-style-type: none"> Includes one 550W AC power supply. Restricted Regulatory Domain. FIPS & TAA Compliant. These products should be considered as 'Rest of World' products and MUST NOT be used for deployments in the United States, Israel, Japan or Egypt. SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers 	
	HPE Aruba Networking 9240 (IL) TAA 4xSFP28 1 Expansion Slot Campus Gateway	R7J04A
	<ul style="list-style-type: none"> Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Israel only). IL FIPS & TAA Compliant. SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers 	
	HPE Aruba Networking 9240 (JP) TAA 4xSFP28 1 Expansion Slot Campus Gateway	R7J05A
	<ul style="list-style-type: none"> Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Japan only). JP FIPS & TAA Compliant. SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers 	
	HPE Aruba Networking 9240 (EG) TAA 4xSFP28 1 Expansion Slot Campus Gateway	R7J06A
	<ul style="list-style-type: none"> Includes one 550W AC power supply. Restricted regulatory domain (for deployments in Egypt only). EG FIPS & TAA Compliant. 	

Configuration Information

- Notes:**
- SFP/SFP+/SFP28 ports min=0 \ max=4 SFP/SFP+/SFP28 Transceivers
 - 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 > Campus: HPE Aruba Networking 9200 Series Mobility Controller

Transceivers

SFP		SKU
Rule #	Description	
	HPE Aruba Networking 9240 1G SFP RJ45 T 100m Cat5e Transceiver	S1H24A
	HPE Aruba Networking 1G SFP LC SX 500m OM2 MMF Transceiver	J4858D
	HPE Aruba Networking 1G SFP LC LX 10km SMF Transceiver	J4859D
	HPE Aruba Networking 1G SFP LC SX 500m MMF TAA Transceiver	JL745A
	HPE Aruba Networking 1G SFP LC LX 10km SMF TAA Transceiver	JL746A

Notes: Supported on the 9240 Models (min0 // max 4)

SFP+		SKU
Rule #	Description	
	HPE Aruba Networking 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
	HPE Aruba Networking 10G SFP+ LC LR 10km SMF Transceiver	J9151E
	HPE Aruba Networking 10G SFP+ LC ER 40km SMF Transceiver	J9153D
	HPE Aruba Networking 10G SFP+ LC LR 10km SMF TAA Transceiver	JL749A
	HPE Aruba Networking 10GBASE-T SFP+ RJ45 30m Cat6A Transceiver	JL563B
	HPE Aruba Networking 10G SFP+ to SFP+ 1m Direct Attach Copper Cable	J9281D
	HPE Aruba Networking 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	J9283D
	HPE Aruba Networking 10G SFP+ to SFP+ 7m Direct Attach Copper Cable	J9285D

Notes: Supported on the 9240 Models (min0 // max 4)

SFP28		SKU
Rule #	Description	
	HPE Aruba Networking 25G SFP28 LC eSR 400m MMF Transceiver	JL485A
	HPE Aruba Networking 25G SFP28 LC SR 100m MMF Transceiver	JL484A
	HPE Aruba Networking 25G SFP28 LC LR 10km SMF Transceiver	JL486A
	HPE Aruba Networking 25G SFP28 to SFP28 0.65m Direct Attach Cable	JL487A
	HPE Aruba Networking 25G SFP28 to SFP28 3m Direct Attach Copper Cable	JL488A
	HPE Aruba Networking 25G SFP28 to SFP28 5m Direct Attach Copper Cable	JL489A
	HPE Aruba Networking 25G SFP28 to SFP28 3m Active Optical Cable	ROM44A
	HPE Aruba Networking 25G SFP28 to SFP28 7m Active Optical Cable	ROM45A
	HPE Aruba Networking 25G SFP28 to SFP28 15m Active Optical Cable	ROZ21A

Notes: Supported on the 9240 Models (min0 // max 4)

Accessories

Gateway Mount Kits

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

Rule #	Description	SKU
	HPE Aruba Networking 9240 Spare Rack Mount Kit	R9D13A

Notes: Only supported on the 9240 Models

Fan Trays

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

Rule #	Description	SKU
	HPE Aruba Networking HW-9240-FT 9240 Series Fan Tray	R7J65A

Notes: Only supported on the 9240 Models



Configuration Information

Spares

For 9240 Std (Min 0 // max 99) User Selection (min 0 // max 99)

Rule #	Description	SKU
	HPE Aruba Networking PSU-550-AC 550W AC Power Supply	R7J63A
	<ul style="list-style-type: none"> Spare 550W PSU 	
Notes:	Bring in (Min 1 // Max 1) Localized power cord based on the HPE Aruba Networking Localization Menu	

Software

HPE Aruba Networking Operating System Software

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

License Bundle

Rule #	Description	SKU
2,3	HPE Aruba Networking LIC-ENT Enterprise (LIC-AP LIC-PEF LIC-RFP and LIC-AW) License Bundle E-LTU	JW471AAE

Licenses

1,3	HPE Aruba Networking LIC-AP Controller per AP Capacity License E-LTU	JW472AAE
3	HPE Aruba Networking LIC-PEF Controller Policy Enforcement Firewall Per AP License E-LTU	JW473AAE
3	HPE Aruba Networking LIC-RFP Controller RFProtect Per AP License E-LTU	JW474AAE
3,4	HPE Aruba Networking LIC-VIA Per VIA Client Controller VPN License E-LTU	JZ148AAE
	HPE Aruba Networking LIC-ACR Controller Advanced Cryptography 1 Session License E-LTU	Q9B90AAE

Web Content Classification

	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

Configuration Rules

Rule #	Description
1	For each AP attached to the controller the minimal configuration is 1xLIC-AP(JW472AAE) per AP.
2	LIC-ENT (JW471AAE) is equivalent to 1 each of LIC-AP, LIC-REF, LIC-RFP and LIC-AW.
	LIC-AW is a device license for AirWave Management system.
3	When Dynamic Segmentation is enabled on the controller, the per AP license count must equal the sum of Aps and switches whose traffic are tunnelled to the controller. In the case of virtual switch stacks, one license will be consumed per stack
4	LIC-VIA license is per VIA user license and is not tied to any particular controller. It can be transferred from one controller to another. LIC-VIA supports centralized licensing and can be managed by Mobility Master or a Master Controller in AOS 8.x deployment.

HPE Aruba Networking Central Subscription

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

Configuration Information

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	HPE Aruba Networking COP Controller Foundation 7-year Government Subscription E-STU	S1P64AAE
3	HPE Aruba Networking COP Controller Foundation 10-year Government Subscription E-STU	S1P65AAE

Cloud Services / WLAN Gateway Subscriptions

2	HPE Aruba Networking 92/72xx Gateway WLAN Advanced 1-year Subscription E-STU	S0V01AAE
2	HPE Aruba Networking 92/72xx Gateway WLAN Advanced 3-year Subscription E-STU	S0V02AAE
2	HPE Aruba Networking 92/72xx Gateway WLAN Advanced 5-year Subscription E-STU	S0V03AAE
2	HPE Aruba Networking 92/72xx Gateway WLAN Advanced 7-year Subscription E-STU	S0V04AAE
2	HPE Aruba Networking 92/72xx Gateway WLAN Advanced 10-year Subscription E-STU	S0V05AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Foundation Plus Security 1-year Subscription E-STU	S0S50AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Foundation Plus Security 3-year Subscription E-STU	S0S51AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Foundation Plus Security 5-year Subscription E-STU	S0S52AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Foundation Plus Security 7-year Subscription E-STU	S0S53AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Foundation Plus Security 10-year Subscription E-STU	S0S54AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Advanced Plus Security 1-year Subscription E-STU	S0S55AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Advanced Plus Security 3-year Subscription E-STU	S0S56AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Advanced Plus Security 5-year Subscription E-STU	S0S57AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Advanced Plus Security 7-year Subscription E-STU	S0S58AAE
2	HPE Aruba Networking 92xx SD-Branch Gateway Advanced Plus Security 10-year Subscription E-STU	S0S59AAE
2	HPE Aruba Networking 92xx Gateway WLAN Advanced Plus Security 1-year Subscription E-STU	S0V06AAE
2	HPE Aruba Networking 92xx Gateway WLAN Advanced Plus Security 3-year Subscription E-STU	S0V07AAE
2	HPE Aruba Networking 92xx Gateway WLAN Advanced Plus Security 5-year Subscription E-STU	S0V08AAE
2	HPE Aruba Networking 92xx Gateway WLAN Advanced Plus Security 7-year Subscription E-STU	S0V09AAE
2	HPE Aruba Networking 92xx Gateway WLAN Advanced Plus Security 10-year Subscription E-STU	S0V10AAE

Configuration Rules

Rule #	Description
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

Technical Specifications

Performance	Base Hardware	w/ Silver License	w/ Gold License
Replaces	7210	7220	7240XM
Firewall throughput (Gbps)	20	30	40
Encrypted throughput GRE (Gbps)	20	30	40
Encrypted throughput AES-CBC-128 (Gbps)	20	30	38
Encrypted throughput AES-CBC-256 (Gbps)	20	30	39
Encrypted throughput AES-GCM-128 (Gbps)	20	30	40
Encrypted throughput AES-GCM-256 (Gbps)	20	30	40
Encrypted throughput AES-CCM (Gbps)	20	28	30
AOS-10			
Minimum supported software version	AOS 10.4	AOS 10.6	AOS 10.6
Cluster size	6	6	6
Maximum clients	32K	48K	64K
Maximum clients per cluster	128K	192K	256K
Max devices (APs)	4K	8K	16K
Max devices (APs) per cluster	8K	16K	32K
Maximum datapath / firewall sessions	4M	4M	4M
Concurrent IPSec tunnels	32K	64K	128K
Total tunnels	40K	80K	160K
ARP	64K	96K	128K
Max DHCP clients	16K	16K	16K
L2 VLAN (IPv4)	4K	4K	4K
L3 VLAN (IPv4)	4K	4K	4K
L3 VLAN (IPv6)	512	512	512
Maximum bridge table	1M	1.5M	2M
Minimum IPv6 neighbors	128K	192K	256K
Max IPv4 static routes	4K	4K	4K
Max IPv6 static routes	1K	1K	1K
OSPF routes	57K	57K	57K
Access control lists	2,678	2,678	2,678
Configurable bandwidth contracts	1K	1k	1K
AOS-8			
Replaces	7210	7220	7240XM
Minimum supported software version	AOS 8.10		
Cluster size	12	12	12
Maximum campus or remote access points	512	1K	2K
Maximum concurrent users/devices	16K	24K	32K
Active firewall sessions	2M	2M	2M
Concurrent GRE tunnels	8K	16K	32K
L2 VLANs	4K	4K	4K
L3 VLANs (IPv4 interfaces)	4K	4K	4K
L3 VLANs (IPv6 interfaces)	128	128	128



Technical Specifications

Concurrent IPsec sessions	16K	24K	32K
Concurrent SSL sessions	8K	8K	8K
IAP-VPN	6.5K	8K	8K

Interfaces and Indicators

Form Factor	1 RU
Interface	4x SFP28
Out of Band Management Port	1x RJ45
Console port	USB-C, RJ45
USB 3.0 Type-A	2
LCD Display	1
Power LED	Yes
Status LED	Yes
Peered LED (Reserved for Future Use)	Yes
Expansion Slot (Reserved for Future Use)	1
Power Supply Slots	1 + Redundant
Fan Trays	5

Physical

Dimensions (HxWxD)	1.73" x 17.40" x 15.60" (4.4 cm x 44.2cm x 39.6 cm)
Weight	18.08 lbs (8.2 kg)
MTBF (Hours at 25C with Fans and PSU)	185,301

Environmentals

Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Humidity/Storage Humidity	10% to 90% (RH)/10% to 95% (RH), non-condensing
Operating Altitude	10,000 feet
Acoustic Noise ¹	65.2 dBA (Typ)
Maximum Heat Dissipation (BTU/hour)	648 BTU/hr
Maximum Power Consumption	190W
Power Source	550-watt power supply

Notes: ¹Sound power per ETSI 300 753 in accordance with ISO 7779

Power Supply Certifications

Input voltage range	100 VAC to 240 VAC
Output Voltage	12V
Input frequency	50-60 Hz
AC line input current (steady state)	7.1A
Operating Temperature	0° C to 55° C
Cooling	Internal fan (Air flow rear to front)
Weight	0.8Kg

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



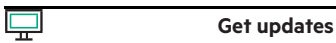
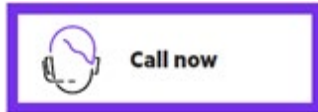
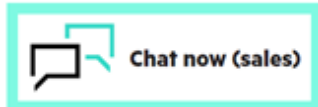
Summary of Changes

Date	Version History	Action	Description of Change
18-Nov-2024	Version 12	Changed	Overview and Configuration Information sections were updated.
03-Sep-2024	Version 11	Changed	Overview, Standard Features, and Technical Specifications sections were updated
01-Apr-2024	Version 10	Changed	Configuration Information section was updated
04-Mar-2024	Version 9	Changed	Configuration Information section was updated
04-Dec-2023	Version 8	Changed	Series name was updated
06-Nov-2023	Version 7	Changed	Configuration Information section was updated Series name was updated
16-Oct-2023	Version 6	Changed	Configuration Information section was updated
07-Aug-2023	Version 5	Changed	Configuration Information section was updated.
06-Mar-2023	Version 4	Changed	Configuration Information section was updated.
05-Dec-2022	Version 3	Changed	Configuration Information section was updated, new SKUs were also added.
03-Oct-2022	Version 2	Changed	Configuration Information section was updated.
04-Apr-2022	Version 1	New	New QuickSpecs



Copyright

Make the right purchase decision.
Contact our presales specialists.



© Copyright 2024 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

To learn more, visit: <http://www.hpe.com/networking>

a50004272enw - 16876 - Worldwide - V12 - 18-November-2024