Have feedback on QuickSpecs? We're listening

HPE Aruba Networking ClearPass Policy Manager QuickSpecs

Secure your network with policies based on the principles of zero trust security to support hybrid workplace initiatives, IoT devices, and edge computing.

HPE Aruba Networking ClearPass Policy Manager, part of the HPE Aruba Networking 360 Secure Fabric, provides role- and device-based secure network access control for IoT, BYOD, corporate devices, as well as employees, contractors, and guests across any multivendor wired, wireless and VPN infrastructure.

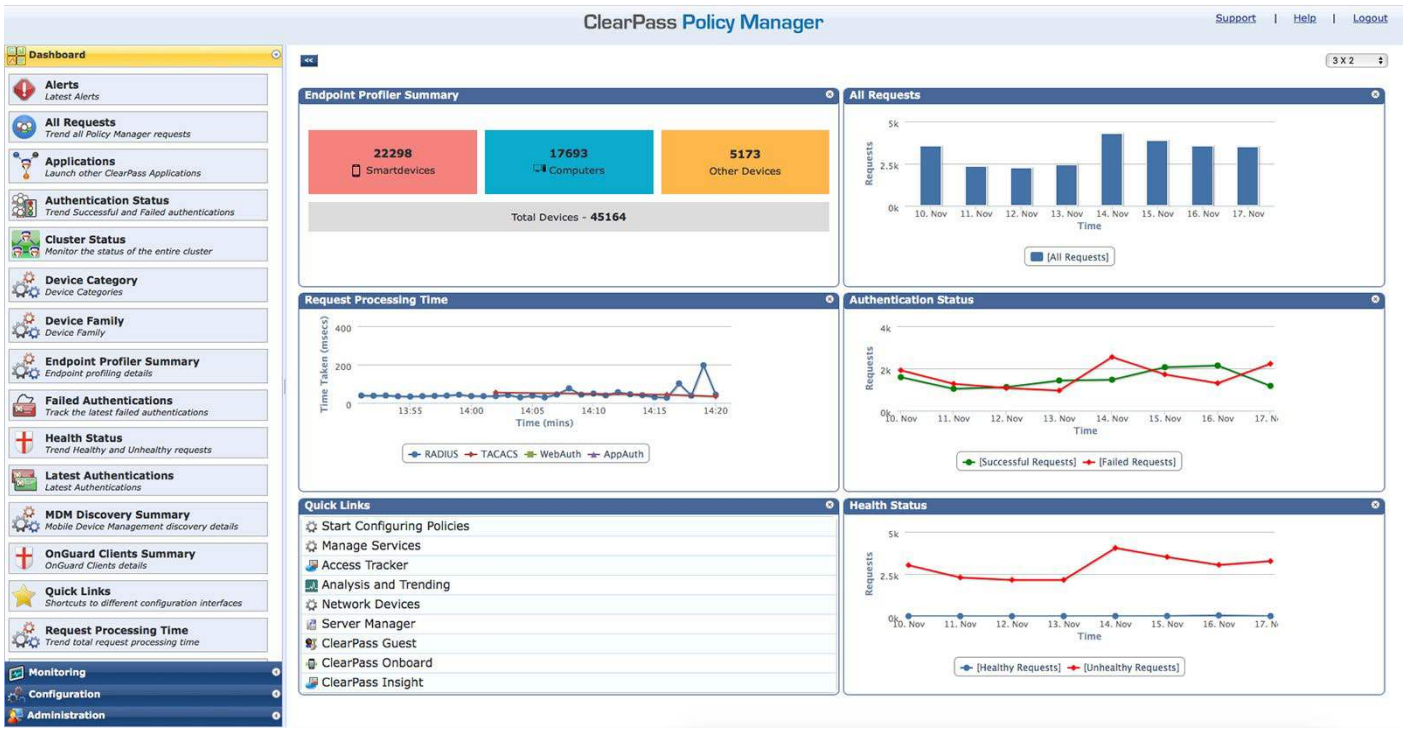
Overview

With a built-in context-based policy engine, RADIUS, TACACS+, non-RADIUS enforcement using OnConnect, device profiling, posture assessment, onboarding, and guest access options, HPE Aruba Networking ClearPass is unrivaled as a foundation for network security for organizations of any size.

For comprehensive integrated security coverage and response using firewalls, UEM, and other existing solutions, HPE Aruba Networking ClearPass supports the HPE Aruba Networking 360 Security Exchange Program. This allows for automated threat detection and response workflows that integrate with third- party security vendors and IT systems previously requiring manual IT intervention.

In addition, HPE Aruba Networking ClearPass supports secure self-service capabilities, making it easier for end users trying to access the network. Users can securely configure their own devices for enterprise use or Internet access based on admin policy controls.

The result is detailed visibility of all wired and wireless devices connecting to the enterprise, increased control through simplified and automated authentication or authorization of devices, and faster, better incident analysis and response through the integration and orchestration with third-party security solutions. This is achieved with a comprehensive and scalable policy management platform that goes beyond traditional AAA solutions to deliver extensive enforcement capabilities for IT-owned and BYOD security requirements.



HPE Aruba Networking ClearPass Policy Manager

Overview

Key Features

- Role-based, unified network access enforcement across multi-vendor wireless, wired and VPN networks.
- Intuitive policy configuration templates and visibility troubleshooting tools.
- Supports multiple authentication/authorization sources (AD, LDAP, SQL).
- Self-service device onboarding with built-in certificate authority (CA) for BYOD.
- Guest access with extensive customization, branding and sponsor-based approvals.
- Integration with key UEM solutions for in-depth device assessments
- Comprehensive integration with the HPE Aruba Networking 360 Security Exchange Program.
- Single sign-on (SSO) support works with Ping, Okta and other identity management tools to improve user experience to SAML 2.0-based applications.
- FIPS 140-2 and CC certified.

Standard Features

The HPE Aruba Networking ClearPass Policy Manager Difference

HPE Aruba Networking ClearPass Policy Manager is the only policy platform that centrally enforces all aspects of enterprise-grade access security for any industry.

Granular policy enforcement is based on a user's role, device type and role, authentication method, UEM attributes, device health, traffic patterns, location, and time-of-day.

Deployment scalability supports tens of thousands of devices and authentications which surpasses the capabilities offered by legacy AAA solutions. Options exist for small to large organizations, from centralized to distributed environments.

Advanced Policy Management

Enforcement and Visibility for Wired and Wireless

With HPE Aruba Networking ClearPass, organizations can deploy wired or wireless using standards-based 802.1X enforcement for secure authentication. HPE Aruba Networking ClearPass also supports MAC address authentication for IoT and headless devices that may lack support for 802.1X. For wired environments where RADIUS based authentication cannot be deployed, OnConnect, offers an alternative using SNMP based enforcement.

HPE Aruba Networking ClearPass Policy Manager Device Insight provides next generation profiling capabilities to HPE Aruba Networking ClearPass Policy Manager through a cloud based machine learning algorithm that also leverage deep packet inspection support.

Authentication methods can be used to concurrently support a variety of use-cases. It also includes support for multi-factor authentication based on log-in times, posture checks, and other context such as new user, new device, and more.

Attributes from multiple identity stores such as Microsoft Active Directory, LDAP-compliant directory, ODBC-compliant SQL database, token servers and internal databases across domains can be used within a single policy for fine- grained control.

Contextual data from these profiled devices allows for IT to define what devices can access either the wired, VPN, or wireless network. Device profile changes are dynamically used to modify authorization privileges. For example, if a Windows laptop appears as a printer, HPE Aruba Networking ClearPass policies can automatically deny access.

Secure Device Configuration of Personal Devices

HPE Aruba Networking ClearPass OnBoard Software provides automated provisioning of any Windows, macOS, iOS, Android, Chromebook, and Ubuntu devices via a user driven self-guided portal. Network details, security settings and unique device identity certificates are automatically configured on authorized devices. Cloud identity services like Microsoft Azure Active Directory, Google G Suite and Okta can also be leveraged as identity providers with Onboard for secure certificate enrollment.

Device Health Checks

HPE Aruba Networking ClearPass OnGuard Software delivers endpoint posture assessments over wireless, wired and VPN connections. OnGuard's health-check capabilities ensure endpoints meet security and compliance policies before

they connect to the network. OnGuard offers a variety of flexible deployment options including agentless, dissolvable agents and agent-based configuration.

Customizable Visitor Management

HPE Aruba Networking ClearPass Guest simplifies visitor workflow processes to enable employees, receptionists, and other non-IT staff to create temporary guest accounts for secure wireless and wired access. Highly customizable, mobile friendly portals provide easy-to-use login processes that include self- registration, sponsor approval, and bulk credential creation support any visitor needs - enterprise, retail, education, large public venue. Credentials can be delivered by SMS, email, printed badges, or input directly through cloud identity providers such as Facebook or Twitter.

Built in support for commercial oriented guest Wi-Fi hotspots with credit card billing and 3rd party advertising driven workflows make it simple to integrate into a wide variety of environments.

HPE Aruba Networking 360 Security Exchange Program

Integrate with Security and Workflow Systems

Support for the HPE Aruba Networking 360 Security Exchange Program is an integrated component of HPE Aruba Networking ClearPass. Using features like REST- based APIs, RADIUS Accounting Proxy, and Syslog ingestion help facilitate workflows with UEM, SIEM, firewalls, help-desk systems and more. Context is shared between each component for end-to-end policy enforcement and visibility.

The HPE Aruba Networking ClearPass Ingress Event Engine provides 3rd party systems the means to share information in real-time using Syslog. This enables HPE Aruba Networking ClearPass to respond to changing threats for users and devices after they have authenticated to the network. By utilizing an open dictionary approach, anyone can write a parsing ruleset without the need for costly add-ons or locked in 3rd party ecosystems.

Advanced Reporting and Alerting

HPE Aruba Networking ClearPass Insight provides advanced reporting capabilities via customizable reports. Information about authentication trends, profiled devices, guest data, on-boarded devices, and endpoint health can also be viewed in an easy-to-use dashboard. Insight also has support for granular alerts and a watchlist to monitor specific authentication failures.

HPE Aruba Networking Central NetConductor

For networks managed by HPE Aruba Networking Central, Central NetConductor offers cloud-native security services that enable global policy management and network configuration with simple business-logic interface and workflows. Central NetConductor uses a distributed EVPN/VXLAN network overlay to facilitate inline policy enforcement across large, globally dispersed networks.

Networks that use Central NetConductor for policy orchestration can choose either Cloud Auth or HPE Aruba Networking ClearPass for authentication and role assignment.

Configuration Information

Ordering Guidance

Please refer to the HPE Aruba Networking ClearPass Scaling & Ordering Guide for detailed information on appropriate sizing and required licensing to deploy HPE Aruba Networking ClearPass.

BTO Models

Description	SKU
Hardware Appliances	
Includes 1 PSU and 1 US Power Cord	
HPE Aruba Networking ClearPass N3001 SFP+ 10G Hardware Appliance	S3N65A
HPE Aruba Networking ClearPass N3000 1G Hardware Appliance	S3N66A
HPE Aruba Networking ClearPass N1000 1G Hardware Appliance	S3N67A
Virtual Appliances	
HPE Aruba Networking ClearPass NAC Cx000V VM-Based Appliance License E-LTU	JZ399AAE

Notes:

- The HPE Aruba Networking ClearPass C1000 S-1200 R4 HW-Based Appliance include a U.S. power cord (will not be displayed in BOM). HPE Aruba Networking ClearPass C2020 DL360 Gen10 and the HPE Aruba Networking ClearPass C3010 DL360 Gen10 HW-Based Appliance includes a C13 - C14 WW 250V 10Amp Jumper Cord. The redundant PSUs for all models include a C13 - C14 WW 250V 10Amp Jumper Cord. When configuring Appliance, A country specific power cord will be automatically added to the BOM.
- OCA Only Model Selection Form - HPE Aruba Networking > Security > ClearPass > Policy Manager

Appliance Options

Transceivers	
SFP+ Transceivers	
HPE Aruba Networking 10G SFP+ LC SR 300m OM3 MMF Transceiver	J9150D
SFP28 Transceivers	
HPE Aruba Networking 25G SFP28 LC SR 100m MMF Transceiver	JL484A
HPE Aruba Networking 25G SFP28 LC eSR 400m MMF Transceiver	JL485A
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	R0M44A
HPE Aruba Networking 25G SFP28 to SFP28 7m Active Optical Cable	R0M45A
HPE Aruba Networking 25G SFP28 to SFP28 15m Active Optical Cable	R0Z21A
Power Supplies	
Std (Min 0 // max 99) User Selection (min 0 // max 99)	

Configuration Information

Description	SKU
Std (Min 0 // max 99) User Selection (min 0 // max 99)	
HPE Aruba Networking DL360 Gen10 500W Spare PSU	R1T38A

Notes: Redundant Power Supply includes a IEC C13 - C14 Jumper Cable

Accessories

Spares

Description	SKU
HPE Aruba Networking ClearPass N3000x Warm Spare SSD	S3N61A
HPE Aruba Networking ClearPass N1000 Cold Spare SSD	S3N62A

Software

Licenses

Policy Manager Licenses

Description	SKU
HPE Aruba Networking ClearPass Entry License 100 Concurrent Endpoints E-LTU	R1U35AAE
HPE Aruba Networking ClearPass Entry License 500 Concurrent Endpoints E-LTU	R1U36AAE
HPE Aruba Networking ClearPass Entry License 1K Concurrent Endpoints E-LTU	R1U37AAE
HPE Aruba Networking ClearPass Entry License 2500 Concurrent Endpoints E-LTU	R1U38AAE
HPE Aruba Networking ClearPass Entry License 5K Concurrent Endpoints E-LTU	R1U39AAE
HPE Aruba Networking ClearPass Entry License 10K Concurrent Endpoints E-LTU	R1U40AAE
HPE Aruba Networking ClearPass Entry License 25K Concurrent Endpoints E-LTU	R1U41AAE
HPE Aruba Networking ClearPass Entry License 50K Concurrent Endpoints E-LTU	R1U42AAE
HPE Aruba Networking ClearPass Entry License 100K Concurrent Endpoints E-LTU	R1U43AAE
HPE Aruba Networking ClearPass Access Upgrade License 100 Concurrent Endpoints E-LTU	R1U44AAE
HPE Aruba Networking ClearPass Access Upgrade License 500 Concurrent Endpoints E-LTU	R1U45AAE
HPE Aruba Networking ClearPass Access Upgrade License 1K Concurrent Endpoints E-LTU	R1U46AAE
HPE Aruba Networking ClearPass Access Upgrade License 2500 Concurrent Endpoints E-LTU	R1U47AAE
HPE Aruba Networking ClearPass Access Upgrade License 5K Concurrent Endpoints E-LTU	R1U48AAE
HPE Aruba Networking ClearPass Access Upgrade License 10K Concurrent Endpoints E-LTU	R1U49AAE
HPE Aruba Networking ClearPass Access Upgrade License 25K Concurrent Endpoints E-LTU	R1U50AAE
HPE Aruba Networking ClearPass Access Upgrade License 50K Concurrent Endpoints E-LTU	R1U51AAE
HPE Aruba Networking ClearPass Access Upgrade License 100K Concurrent Endpoints E-LTU	R1U52AAE

Access Licenses

HPE Aruba Networking ClearPass Access License 100 Concurrent Endpoints E-LTU	JZ400AAE
HPE Aruba Networking ClearPass Access License 500 Concurrent Endpoints E-LTU	JZ401AAE
HPE Aruba Networking ClearPass Access License 1K Concurrent Endpoints E-LTU	JZ402AAE
HPE Aruba Networking ClearPass Access License 2500 Concurrent Endpoints E-LTU	JZ403AAE
HPE Aruba Networking ClearPass Access License 5K Concurrent Endpoints E-LTU	JZ404AAE
HPE Aruba Networking ClearPass Access License 10K Concurrent Endpoints E-LTU	JZ405AAE

Configuration Information

HPE Aruba Networking ClearPass Access License 25K Concurrent Endpoints E-LTU	JZ406AAE
HPE Aruba Networking ClearPass Access License 50K Concurrent Endpoints E-LTU	JZ407AAE
HPE Aruba Networking ClearPass Access License 100K Concurrent Endpoints E-LTU	JZ408AAE
HPE Aruba Networking ClearPass Access License 100 Concurrent Endpoints 1-year Subscription E-STU	JZ409AAE
HPE Aruba Networking ClearPass Access License 500 Concurrent Endpoints 1-year Subscription E-STU	JZ410AAE
HPE Aruba Networking ClearPass Access License 1K Concurrent Endpoints 1-year Subscription E-STU	JZ411AAE
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HPE Aruba Networking ClearPass Access License 2500 Concurrent Endpoints 3-year Subscription E-STU	JZ421AAE
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HPE Aruba Networking ClearPass Access License 100 Concurrent Endpoints 5-year Subscription E-STU	JZ427AAE
HPE Aruba Networking ClearPass Access License 500 Concurrent Endpoints 5-year Subscription E-STU	JZ428AAE

Configuration Information

HPE Aruba Networking ClearPass Access License 1K Concurrent Endpoints 5-year Subscription E-STU	JZ429AAE
HPE Aruba Networking ClearPass Access License 2500 Concurrent Endpoints 5-year Subscription E-STU	JZ430AAE
HPE Aruba Networking ClearPass Access License 5K Concurrent Endpoints 5-year Subscription E-STU	JZ431AAE
HPE Aruba Networking ClearPass Access License 10K Concurrent Endpoints 5-year Subscription E-STU	JZ432AAE
HPE Aruba Networking ClearPass Access License 25K Concurrent Endpoints 5-year Subscription E-STU	JZ433AAE
HPE Aruba Networking ClearPass Access License 50K Concurrent Endpoints 5-year Subscription E-STU	JZ434AAE
HPE Aruba Networking ClearPass Access License 100K Concurrent Endpoints 5-year Subscription E-STU	JZ435AAE

HPE Aruba Networking ClearPass OnBoard Software

HPE Aruba Networking ClearPass - Onboard License 100 Users E-LTU	JZ436AAE
HPE Aruba Networking ClearPass - Onboard License 500 Users E-LTU	JZ437AAE
HPE Aruba Networking ClearPass - Onboard License 1K Users E-LTU	JZ438AAE
HPE Aruba Networking ClearPass - Onboard License 2500 Users E-LTU	JZ439AAE
HPE Aruba Networking ClearPass - Onboard License 5K Users E-LTU	JZ440AAE
HPE Aruba Networking ClearPass - Onboard License 25K Users E-LTU	JZ442AAE
HPE Aruba Networking ClearPass - Onboard License 50K Users E-LTU	JZ443AAE
HPE Aruba Networking ClearPass - Onboard License 100K Users E-LTU	JZ444AAE
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HPE Aruba Networking ClearPass - Onboard License 100 Users 1-year Subscription E-STU	JZ445AAE
HPE Aruba Networking ClearPass - Onboard License 500 Users 1-year Subscription E-STU	JZ446AAE
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Configuration Information

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HPE Aruba Networking ClearPass - Onboard License 100K Users 5-year Subscription E-STU	JZ471AAE

HPE Aruba Networking ClearPass OnGuard Software

HPE Aruba Networking ClearPass - OnGuard License 100 Users E-LTU	JZ472AAE
HPE Aruba Networking ClearPass - OnGuard License 500 Users E-LTU	JZ473AAE
HPE Aruba Networking ClearPass - OnGuard License 1K Users E-LTU	JZ474AAE
HPE Aruba Networking ClearPass - OnGuard License 2500 Users E-LTU	JZ475AAE
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HPE Aruba Networking ClearPass - OnGuard License 100K Users 3-year Subscription E-STU	JZ498AAE

Technical Specifications

Appliances

HPE Aruba Networking ClearPass Policy Manager is available as hardware or as a virtual appliance. Virtual appliances are supported on VMware vSphere Hypervisor (ESXi), Microsoft Hyper-V, CentOS KVM, Amazon EC2 & Microsoft Azure.

- VMware ESXi up to 8.0
- Microsoft Hyper-V 2016/2019 R2/2019
- KVM on CentOS 7.7. Ubuntu 18.04, and Ubuntu 20.04
- Amazon AWS (EC2)
- Microsoft Azure

Platform

- Deployment templates for any network type, identity store and endpoint
- 802.1X, MAC authentication and captive portal support
- HPE Aruba Networking ClearPass OnConnect for SNMP-based enforcement on wired switches
- Advanced reporting, analytics and troubleshooting tools
- Interactive policy simulation and monitor mode utilities
- Multiple device registration portals - Guest, HPE Aruba Networking AirGroup, BYOD, and un-managed devices
- Admin/operator access security via CAC and TLS certificates

Framework and Protocol Support

- RADIUS, RADIUS Dynamic Authorization, TACACS+, web authentication, SAML v2.0
- RadSec (TLS encoded RADIUS)
- 802.1X-2010, 802.1X-2020
- TEAP (Tunneled EAP)
- EAP-FAST (EAP-MSCHAPv2, EAP-GTC, EAP-TLS)
- PEAP (EAP-MSCHAPv2, EAP-GTC, EAP-TLS, EAP-PEAPPublic, EAP-PWD)
- TTLS (EAP-MSCHAPv2, EAP-GTC, EAP- TLS, EAP-MD5, PAP, CHAP)
- EAP-TLS
- PAP, CHAP, MSCHAPv1, MSCHAPv2, EAP-MD5
- OAuth2
- WPA3
- Windows machine authentication
- SMB v2/v3
- Online Certificate Status Protocol (OCSP)
- SNMP generic MIB, SNMP private MIB
- Common Event Format (CEF), Log Event Extended Format (LEEF), and RFC5424

Technical Specifications

Supported Identity Stores

- Microsoft Active Directory
- RADIUS
- Any LDAP compliant directory
- MySQL, Microsoft SQL, PostGRES and Oracle 11g ODBC-compliant SQL server
- Token servers
- Built-in SQL store, static hosts list
- Kerberos
- Microsoft Azure Active Directory
- Google G Suite

RFC Standards

2246, 2248, 2407, 2408, 2409, 2548, 2759, 2865, 2866, 2869, 2882, 3079, 3579, 3580, 3748, 3779, 4017, 4137, 4301, 4302, 4303, 4308, 4346, 4514, 4518, 4809, 4849, 4851, 4945, 5176, 5216, 5246, 5280, 5281, 5282, 5424, 5755, 5759, 6614, 6818, 6960, 7030, 7170, 7296, 7321, 7468, 7748, 7815, 8031, 8032, 8247, 8446, 8709, 8894, 8908

Internet Drafts

Protected EAP Versions 0 and 1, Microsoft CHAP extensions, dynamic provisioning using EAP-FAST.

Profiling Methods

- Active: Nmap, WMI, SSH, SNMP
- Passive: MAC OUI, DHCP, TCP, Netflow v5/v10, IPFIX, sFLOW, 'SPAN' Port, HTTP User-Agent, IF-MAP
- HPE Aruba Networking ClearPass Device Insight
- Integrated & 3rd Party: Onboard, OnGuard, HPE Aruba Networking OS, EMM/MDM, Cisco device sensor

IPv6 Support

- RADIUS and RadSec
- TACACS+
- Clustering (intra-node communication)
- Web and CLI based management
- IPv6 addressed authentication & authorization servers
- IPv6 accounting proxy
- IPv6 addressed endpoint context servers
- Syslog, DNS, NTP, IPsec IPv6 targets
- IPv6 Virtual IP for high availability
- HTTP Proxy
- Ingress Event Engine Syslog sources
- Onboard, OnGuard

Technical Specifications

Certifications

- FIPS 140-2 level 1 certificate 4473
- Common Criteria NDcPPv2.2e
- NIAP Common Criteria NDcPPv2.1+AUTHSVR 1.0 VID 11324
- Pv6 Ready (including USGv6 r-1)

	C1000 Appliance (JZ508A)	C2020 Appliance (R1V83A)	C3010 Appliance (R1V82A)	N3000 Appliance (S3N66A)	N3001 Appliance (S3N65A)
Appliance Specifications					
Hardware model	Unicom S-1200 R4	HPE DL360 Gen10	HPE DL360 Gen10	HPE DL325 Gen11	HPE DL325 Gen11
CPU	(1) Atom 2.4GHz C2758 with Eight Cores (8 Threads)	(1) Xeon 2.3 GHz Gold 5118 with 12 Cores (12 Threads)	(1) Xeon 2.3GHz Gold 5118 with Twelve Cores (24 Threads)	AMD EPYC 9124 with 16 cores (32 Threads)	AMD EPYC 9124 with 16 cores (32 Threads)
Memory	8 GB	16 GB	64 GB	128 GB	128 GB
Hard drive storage	(1) SATA (7.3K RPM) 1TB hard drive	(2) SATA (7.2K RPM) 1TB hard drives, RAID-1 controller	(6) SAS (10K RPM) 600GB Hot-Plug hard drives RAID-10 controller	(3) SSD (960GB SATA) RAID-5 controller	(3) SSD (960GB SATA) RAID-5 controller
Out of band management	N/A	HPE Integrated Light-Out (iLO) Advanced	HPE Integrated Lights-Out (iLO) Advanced	HPE Integrated Lights-Out (iLO) Advanced	HPE Integrated Lights-Out (iLO) Advanced
Network interfaces	4 x 1GbE	4 x 1GbE	4 x 1GbE	4 x 1GbE	4 x 10/25 GbE SPF28
Serial port	Yes (RJ-45)	Yes (DB-9)	Yes (DB-9)	Yes (DB-9)	Yes (DB-9)
Performance and scale	Please refer to the ClearPass Scaling & Ordering Guide				
Minimum software version	ClearPass Policy Manager 6.6	ClearPass Policy Manager 6.11	ClearPass Policy Manager 6.7	ClearPass Policy Manager 6.11	ClearPass Policy Manager 6.11
Form Factor					
Rackmount	Included	Included	Included	Included	Included
Dimensions (WxHxD)	17.2" x 1.7" x 11.3"	17.1 x 1.7 x 27.8"	17.1 x 1.7 x 27.8"	17.1 x 1.7 x 25.6	17.1 x 1.7 x 25.6
Weight (max config)	8.5 Lbs	Up to 36 Lbs	Up to 36 Lbs	Up to 34.5 Lb	Up to 34.5 Lb

Technical Specifications

Power					
Power supply	200 watts max	HPE 500W Flex Slot Platinum Hot Plug Power Supply	HPE 500W Flex Slot PlatinumHot Plug Power Supply	(2) HPE 1000W Flex Slot Titanium Hot Plug Power Supply	(2) HPE 1000W Flex Slot Titanium Hot Plug Power Supply
Power cord	C13 - NEMA 5-15P US/CA 110V 10Amp Power Cord	C13 - C14 WW 250V 10Amp Jumper Cord	C13 - C14 WW 250V 10Amp Jumper Cord	(2) C13 -C14 WW 250V 10A JumperCord	(2) C13 -C14 WW 250V 10A JumperCord
Power redundancy	N/A	Optional	Optional	Included	Included
AC input voltage	100/240 VAC auto-selecting				
AC input frequency	50/60 Hz auto-selecting				
Environmental					
Operating temperature	5º C to 35º C (41º F to 95º F)	10° to 35°C (50° to 95°F)	10º C to 35º C (50º F to 95º F)	10° to 35°C (50° to 95° F)	10° to 35°C (50° to 95° F)
Operating vibration	0.25 G at 5 Hz to 200 Hz for 15 minutes	Random vibration at 0.000075 G2/ Hz, 10Hz to 300Hz, (0.15 G's nominal)	Random vibration at 0.000075 G²/Hz, 10Hz to 300Hz, (0.15 G's nominal)	Random vibration at 0.000075 G/Hz, 10Hz to 300Hz (0.15 G's nominal)	Random vibration at 0.000075 G/Hz, 10Hz to 300Hz (0.15 G's nominal)
Operating shock	1 shock pulse of 20 G for up to 2.5 ms	2 G's	2 G's	2 G's	2 G's
Operating altitude	-16 m to 3,048 m (-50 ft to 10,000 ft)	3,050 m (10,000 ft)	3,050 m (10,000 ft)	3,050 m (10,000 ft)	3,050 m (10,000 ft)

Summary of Changes

Date	Version History	Action	Description of Change
19-Oct-2026	Version 21	Changed	Survey link text was updated.
27-Feb-2026	Version 20	Changed	Rebranding update applied to QuickSpecs
21-Jan-2025	Version 19	Changed	Standard Features section was updated.
16-Dec-2024	Version 18	Changed	Configuration Information section was updated.
14-Oct-2024	Version 17	Changed	Configuration Information section was updated.
03-Jun-2024	Version 16	Changed	Configuration Information section was updated.
06-May-2024	Version 15	Changed	Configuration Information section was updated.
22-Jan-2024	Version 14	Changed	Series name was updated.
10-Jul-2023	Version 13	Changed	Configuration Information section was updated.
03-Apr-2023	Version 12	Changed	Overview, Standard Features, Configuration Information, and Technical Specifications sections were updated.
04-May-2021	Version 11	Changed	Configuration Information section was updated.
06-Jul-2020	Version 10	Changed	Overview, Standard Features, Configuration Information and Technical Specification sections were updated. New SKU was added.
04-May-2020	Version 9	Changed	Configuration Information section was updated.
12-Mar-2020	Version 8	Changed	Technical Specification section was updated.
18-Nov-2019	Version 7	Changed	Configuration Information, section was updated. Obsolete SKUs were removed.
05-Aug-2019	Version 6	Changed	SKU added R1V82A Configuration Information, Related Options and Technical Specification sections were updated.
04-Mar-2018	Version 5	Changed	SKUs added: R1U35AAE, R1U36AAE, R1U37AAE, R1U38AAE, R1U39AAE, R1U40AAE, R1U41AAE, R1U42AAE, R1U43AAE, R1U44AAE, R1U45AAE, R1U46AAE, R1U47AAE, R1U48AAE, R1U49AAE, R1U50AAE, R1U51AAE, R1U52AAE Overview section updated
18-Dec-2017	Version 4	Changed	Minor edit on Configuration section
04-Dec-2017	Version 3	Changed	SKUs added: JZ508A, JZ509A, JZ510A, JZ399AAE, JX923A All document sections updated
07-Nov-2016	Version 2	Added	SKUs added: JW771A, JW772A
01-Nov-2016	Version 1	New	New QuickSpecs

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