

Overview

HPE SimpliVity 325 Gen10

HPE SimpliVity 325 Gen10, based on the HPE ProLiant DL325 Gen10 Servers, is a compact, scalable, 1U rack-mounted building block that delivers integrated server, storage, and storage networking services. The HPE SimpliVity 325 Gen10 Server is the secure and versatile single socket server for virtualization and I/O intensive workloads is ideal for remote office or space-constrained locations. This 1P, 1U server delivers an exceptional balance of processor, memory and I/O for 2P performance at 1P TCO. Get the most out of your virtualized environment with this versatile server delivering a lower hypervisor software cost and better cost per virtual machine (VM).



What's New

- AMD® EPYC® 7000 Processor Family
- Extra Small (4.6TB) and Small (7.5TB) Software Optimized SimpliVity 325 Gen10 options with VMWare ESXi 6.5 & 6.7
- HPE InfoSight for SimpliVity: Simplified, AI-driven operations to transform infrastructure management and support
- HPE OmniStack supports v1.44 HPE iLO Firmware
- HPE OmniStack Supports up to 48 clusters in one federation
- HPE SimpliVity now supports 16 node stretch cluster scale (8+8), in addition to recently expanded scale up to 16 nodes per cluster and up to 48 clusters per federation
- Increased feature functionality for HTML 5 vSphere plugin
- Enhancements to orchestrated upgrades

Scalable and Configurable

- Expandable in 1 node increments up to 96 total nodes
- Processor - Choice of AMD® EPYC® 7000 Processors
- Memory - 256GB to 2048GB (Per node depending on configuration)
- Network - 10Gb, 1Gb
- Power – Redundant
- Virtualization Software and Licensing
- All in a compact 1U form factor
- 1 PCIe expansion slot (Slot 1 PCIe 3.0)

NOTE: It is strongly recommended that an HPE SimpliVity 325 Gen10 cluster have a minimum of two nodes to realize the full benefits of the high availability hyperconverged solution.

NOTE: A single cluster supports up to 16 nodes. A single federation supports up to 96 nodes. Scalability varies by Hypervisor. See product documentation for details.

Software Features

Overview

- HPE InfoSight for HPE SimpliVity
- Orchestrated software, firmware and hypervisor upgrades
- VMware vSphere
- HPE SimpliVity management plugin for VMware vCenter
- Optional Data Encryption support
- Optional RapidDR support

Hardware Availability Features

- Cluster expansion without downtime
- Hot-pluggable SSD
- Redundant power supplies
- Integrated storage controller with battery-backed cache
- HPE ProLiant Integrated Lights-Out Advanced (iLO) 5 Remote Management

Services

- HPE Pointnext full suite of support offerings (Foundation Care, Proactive Care and Datacenter Care).
- Remote support technology to provide 24x7 secure remote support

NOTE: For the best support experience, HPE Pointnext Installation Services and 24x7x365 support recommended.

HPE SimpliVity 325 Gen10: At-a-Glance

Node Size	1U
Processor	1x AMD® EPYC® 7000 Processor Family 16 to 32 cores selectable, 1CPU option slot
Memory	256GB to 2048GB per node selectable
Storage	Extra Small - 4 x 1.92TB SSD Kit (4.6TB usable) Small - 6x 1.92TB SSD Kit (7.5TB usable)
Network Ports	Embedded Ethernet 4x1GbE LOM embedded, 10Gb FLOM
Power Supplies	Dual power supplies provide highly available power HPE 500W FS Plat Hot Plug LH Power Supply Kit HPE 800W FS Plat Hot Plug Power Supply Kit HPE 800W FS -48VDC Hot Plug Power Supply Kit HPE 800W FS Titanium Hot Plug Power Supply Kit HPE 800W FS Universal Hot Plug Power Supply Kit HPE 1600W FS Platinum Hot Plug LH Power Supply Kit
Hardware Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response
Hardware Support	3-year HPE SimpliVity 325 Gen10 solution support (required)

NOTE: Warranty for SSDs is subject to maximum usage limitations. Maximum usage limit is the maximum amount of data that can be written to the drive. Drives that have reached this limit will not be eligible for replacement.

NOTE: Two power supplies per node are required for redundancy. 500W and 800W power supplies are only supported with specific configurations.

Standard Features

Features and Benefits

HPE InfoSight for HPE SimpliVity enables predictive data analytics

For SimpliVity nodes HPE InfoSight provides system details at the federation, cluster, and host level for historic capacity utilization, trends, resource consumption and prediction. Alleviates support issues and reduces operational expenses with automated wellness alerts and case creation. Provides a unified view of HPE SimpliVity assets such as Datastore, VM, Backups, Capacity, and IOPS.

Fully integrated system

Combines x86 resources, storage, and storage networking in a smaller form factor, single-socket, entry level hyperconverged system. Simplifies management and delivers great cost efficiency and agility with increased visibility and control.

Peak and predictable performance

The all-flash solution provides predictable and linear performance at near-wire speeds with reduced latency. Software-optimized inline deduplication, compression, and optimization helps minimize I/O and network traffic, improving performance while delivering great storage and bandwidth efficiency.

Scale in and scale out

Easily expand or shrink configurations as your needs change. Each node supports a large number of fully protected virtual machines (VMs), with the networked collection of nodes at both local and remote sites managed as a single entity.

VM centricity and mobility

Enables all actions, policies, and management at the VM level. Global unified management and integration with established administrative systems streamline operations and improve IT agility.

Dramatic TCO reduction

Single AMD EPYC processors allows for a 50% reduction in socket based hypervisor licensing costs. Drastically reduce the need to purchase multiple discrete components, optimize storage capacity with guaranteed 10:1 data efficiency, and prevent over-provisioning for performance and capacity with on-demand expansion.

Software Overview

Pre-integrated software

- HPE SimpliVity Startup Wizard

Virtualization Platform Software and Licenses

NOTE: HPE SimpliVity 325 Gen10 supports VMware vSphere ESXi .

- VMware vSphere installation media is required to complete the installation and is available from HPE when ordering HPE SimpliVity 325 Gen10
- Valid licenses for the following VMware software components are required and are available from HPE when ordering HPE SimpliVity 325 Gen10
 - (1) VMware vSphere license(s) per node
 - (1) VMware vCenter license

NOTE: HPE SimpliVity 325 Gen10 for VMware vSphere requires valid VMware vSphere, and vCenter licenses. VMware licenses can only be removed from the order if it is confirmed that the end-customer has valid licenses in place (Enterprise License Agreement (ELA), vCloud Air Partner or unused Enterprise Purchasing Program tokens).

Purchasing VMware licenses from Hewlett Packard Enterprise allows Hewlett Packard Enterprise to be the single point of contact for the entire solution, inclusive of the virtualization software, and is recommended.

Standard Features

Management

- HPE InfoSight for HPE SimpliVity
- VMware vCenter
- HPE SimpliVity management plugin for VMware vCenter

NOTE: HPE SimpliVity 325 Gen10 supports VMware vCenter 6.5 and 6.7 .

NOTE: For VMware and HW compatibility, please see the [HPE SimpliVity OmniStack Interoperability Guide](#)

Or www.hpe.com/docs/simplivity-library

Service and Support

Services for customers purchasing from Hewlett Packard Enterprise or an enterprise reseller are quoted using Hewlett Packard Enterprise order configuration tools.

HPE Proactive Care for HPE SimpliVity (choose the response level that meets your needs)

HPE Proactive Care for HPE SimpliVity was designed to help meet your support needs effectively and efficiently. Receive all the benefits of HPE Proactive Care (details are below) plus access specific self-serve tools, usage support, predictive notifications, and technical expertise that will give you control to manage your HPE SimpliVity solution and keep it reliable, stable, and at peak performance. Use the HPE SimpliVity forums with committed response time to answer questions or for questions where you where want community feedback. Access how to videos, best practices from support experts to address common challenges, or find out about beneficial hints and tips. Ask HPE SimpliVity solution operational questions with HPE Proactive Care for HPE SimpliVity.

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice.

HPE Proactive Care is available in 3, 4, and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR). This Service combines both reactive support when there is a problem with an enhanced call experience and start to finish case management with proactive reporting and advice. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.).

<https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf>

HPE Proactive Care Advanced incorporates all the deliverables of HPE Proactive Care for HPE SimpliVity plus includes personalized support from a local, assigned Account Support Manager who will share best practice advice and personalized recommendations designed to help improve availability and performance to help increase stability and reduce unplanned downtime. Leverage your system's ability to connect to HPE for pre-failure alerts, automatic call logging and parts dispatch. For business-critical incidents, Proactive Care Advanced offers critical event management to help reduce mean time to resolution. HPE Service Credits are included to redeem for technical and operational services. HPE Proactive Care Advanced is offered in 3, 4, and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR).

<https://www.hpe.com/h20195/v2/getdocument.aspx?docname=4AA5-3259ENW>

NOTE: HPE Proactive Care and HPE Proactive Care Advanced require that the customer connect their devices to HPE to help make the most of these services and receive all the deliverables.

HPE Foundation Care – (choose the response level that meets your needs)

HPE Foundation Care helps when there is a problem and is available in 3, 4, and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR). Note that Call-To-Repair Service connects you to HPE 24 hours a day, seven days a week for assistance on resolving issues -this includes our highest level commitment to repair hardware within six hours after opening your case and respond to software questions within two hours. In addition, Collaborative software support is included and provides troubleshooting assistance on industry leading software running on your server. Simplify your support experience and make HPE your first call to help resolve hardware or software problems.

<https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en>

Service and Support

Parts and Material

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

Defective Media Retention is an option available with HPE Proactive Care, Proactive Care Advanced, and HPE Foundation Care and applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction

Other Related Services

HPE Server Hardware Installation

Provides for the basic hardware installation of HPE branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.

<http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf>

HPE Installation and Startup Service

Provides for the installation of your HPE hardware according to product specifications including options. The HPE service delivery technician will connect the product to a LAN as appropriate and enable remote support to allow for automatic case creation for hardware failures. Installation and start up services also includes the installation of one supported operating system type (Windows® or Linux)

HPE Service Credits

Offers flexible services and technical skills to meet your IT demands as your business evolves. With a menu of services, you can access additional resources and specialist skills to help you maintain peak performance of your IT. HPE Service Credits help you proactively respond to your dynamic IT and business needs.

HPE Education Services

Provides comprehensive training designed to expand the skills of your IT staff and keep them up to speed with the latest technologies.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

Configuration Information

HPE SimpliVity 325 Gen10: Overview for New System

Use the following steps to order a new SimpliVity 325 Gen10 system:

Step 1: Begin with the base node and select a hypervisor option

Step 2: Select the hardware options to add to the base node: processors, memory, storage, networking, power, other optional HW

Step 3: The software license that corresponds to the node configuration will be automatically added

Step 4: Select service and support

Base Node

Action	Description	Part
Select the base node	HPE SimpliVity 325 Gen10 Node	R2Z00
Select Hypervisor	HPE SimpliVity 380 Gen10 VMware Node Tracking	R2G90

Processors

CPU Configurations

Action	Details	Description	CPU SK
Select CPU for the node	Primary		
	32C 2.2GHz 180W	HPE DL325 Gen10 AMD EPYC 7601 (2.2GHz/32-core/180W) FIO Processor Kit	P04851-L
	32C 2.0GHz 180W	HPE DL325 Gen10 AMD EPYC 7551P (2.0 GHz/32-core/180W) FIO Processor Kit	P04852-L
	32C 2.0GHz 155/170W	HPE DL325 Gen10 AMD EPYC 7501 (2.0GHz/32-core/155-170W) FIO Processor Kit	P04853-L
	24C 2.3GHz 180W	HPE DL325 Gen10 AMD EPYC 7451 (2.3GHz/24-core/180W) FIO Processor Kit	P04854-L
	24C 2.0GHz 155/170W	HPE DL325 Gen10 AMD EPYC 7401P (2.0GHz/24-core/155-170W) FIO Processor Kit	P04855-L
	16C 2.4GHz 155/170W	HPE DL325 Gen10 AMD EPYC 7351P (2.4GHz/16-core/155-170W) FIO Processor Kit	P04856-L
	16C 2.2GHz 155/170W	HPE DL325 Gen10 AMD EPYC 7301 (2.2GHz/16-core/155-170W) FIO Processor Kit	P04857-L
	16C 2.1GHz 155/170W	HPE DL325 Gen10 AMD EPYC 7281 (2.1GHz/16-core/155-170W) FIO Processor Kit	P04858-L
	16C 3.1GHz 155/170W	HPE DL325 Gen10 AMD EPYC 7371 (3.1GHz/16-core/200W) FIO Processor Kit	P12253-L

Memory

Action	Details	Description	SK
Select a memory capacity for 8x 32GB RDIMMs the node		HPE SimpliVity AMD 256GB 8 RDIMM Slots Memory Kit	R2Z10
	16x 32GB RDIMM	HPE SimpliVity AMD 512GB 16 RDIMM Slots Memory Kit	R2Z11
The appropriate memory and quantity will be included by the configurator	8x 64GB LRDIMMs	HPE SimpliVity AMD 512GB 8 LRDIMM Slots Memory Kit	R2Z12
	8x 128GB RDIMMs	HPE SimpliVity AMD 1TB 8 LRDIMM Slots Memory Kit	R2Z13
1 Kit required per single socket CPU	16x 128GB RDIMMs	HPE SimpliVity AMD 2TB 16 LRDIMM Slots Memory Kit	R2Z14

Configuration Information

NOTE: For more information go to: <http://www.hpe.com/docs/memory-population-rules>

NOTE: For more information on the base HPE DL325 Gen10 server Options, go to: <https://h20195.www2.hpe.com/v2/GetDocument.aspx?docname=a00045498enw>

Storage

Effective capacity varies by environment and is a function of realized deduplication and compression rates. The capacities in this table offer a conservative range based on compression and deduplication rates found in standard, primary storage use cases.

Action	Effective Capacity	Description	Part
Select one storage kit for the node	7-15TB	HPE SimpliVity 6x1.92TB SFF SSD Kit	Q9Y49
The appropriate OmniStack software will be included by the configurator	4-8TB	HPE SimpliVity 4x1.92TB SFF SSD Kit	R2Z28

Networking

Action	Description	Part
A 10GbE FlexLOM is required. This is in addition to the standard 4 port 1GbE LOM included in the base node	HPE Ethernet 1Gb 4-port 331FLR Adapter	62913 B
	HPE Ethernet 1Gb 4-port 366FLR Adapter	66524 B
	HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	70075 B
	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	70075 B
	HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	76430 B
	HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	81770 B
	HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	81774 B

PCI Adapter

Action	System Max	Description	Part
Only 1 Single PCIe expansion available in HPE SimpliVity 325 Gen10..	1	HPE Ethernet 1Gb 4-port 331T Adapter	64759 B
	1	HPE Ethernet 10Gb 2-port 530SFP Adapter	65250 B
	1	HPE Ethernet 10Gb 2-port 530T Adapter	65659 B
	1	HPE Ethernet 1Gb 4-port 366T Adapter	81154 B
	1	HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	81775 B
	1	HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter	86732 B
	1	HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	81771 B

Optional Fibre Channel HBA cards

Configuration Information

Action	System Max	Description	Part
	1	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94
	1	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	P9M76

Power Supplies

Action	Description	Part
Two power supplies are required.	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865414-B2
	HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit	865428-B2
	HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B2
	HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B2
	HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	830272-B2
	HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-B2
	HPE DL325 Gen10 Redundant Power Supply Enablement Kit	P04980-B2

NOTE: The power supply requirement can vary based configuration and environment. 800W Power Supply is only supported with specific configurations. Please refer to HPE Power Advisor for proper power sizing.

NOTE: All configured nodes ship with a standard 6-foot IEC C-13/C-14 jumper cord (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the ProLiant Power Cables web page. <https://h20195.www2.hpe.com/v2/getpdf.aspx/4AA6-6836ENW.pdf>

Additional Server Options

Action	Description	Part
	HPE 1U Small Form Factor Easy Install Rail Kit	734807-B2
	HPE 1U Cable Management Arm for Rail Kit	734811-B2
	HPE DL325 Gen10 Serial Port Enablement Kit	P05045-B2
	HPE Serial Special Cable Kits	Q7Y55
	HPE 1U Gen10 Bezel Kit	867998-B2
	HPE Bezel Lock Kit	875519-B2
	HPE Trusted Platform Module 2.0 Gen10 Option	864279-B2
	HPE Gen10 TPM 1.2 FIO Setting	872108-B2
	HPE 1U Gen10 Chassis Intrusion Detection Kit	866473-B2

HPE OmniStack Software

Action	Description	Part
Based on the hardware configurations selected, the appropriate software will be included by the configurator.	HPE SimpliVity 325 4.6TB Software	R2Z77

Configuration Information

HPE SimpliVity 325 7.5TB Software

R2Z78.

The software is determined by storage configuration and is required.

VMware Software vSphere

NOTE: The HPE SimpliVity 325 Gen10 supports ESXi 6.5 and 6.7.

Action	Description	Part
A valid VMware vSphere license is required for each CPU to complete deployment.	VMware vSphere Remote Office Branch Office Standard 25VM 3yr E-LTU	P9A82AAI
	VMware vSphere Remote Office Branch Office Standard 25VM 5yr E-LTU	P9A83AAI
If an order is placed without VMware licenses, the user agrees to supply the necessary license.	VMware vSphere Remote Office Branch Office Advanced 25VM 3yr E-LTU	P9A85AAI
	VMware vSphere Remote Office Branch Office Advanced 25VM 5yr E-LTU	P9A86AAI
	VMware vSphere Standard 1 Processor 3yr E-LTU	BD711AAI
	VMware vSphere Enterprise Plus 1 Processor 3yr Software	BD715
	VMware vSphere Enterprise Plus 1 Processor 3yr E-LTU	BD715AAI
	VMware vSphere Remote Office Branch Office Standard 25VM 3yr E-LTU	P9A82AAI
	VMware vSphere Remote Office Branch Office Advanced 25VM 3yr E-LTU	P9A85AAI
	VMware vSphere Standard 1 Processor 5yr Software	BD512
	VMware vSphere Standard 1 Processor 5yr E-LTU	BD512AAI
	VMware vSphere Enterprise Plus 1 Processor 5yr Software	BD514
	VMware vSphere Enterprise Plus 1 Processor 5yr E-LTU	BD514AAI

NOTE: HPE SimpliVity 325 Gen10 for VMware vSphere requires valid VMware vSphere, and vCenter licenses. VMware licenses can only be removed from the order if it is confirmed that the end-customer has a valid licenses in place (Enterprise License Agreement (ELA), vCloud Air Partner or unused Enterprise Purchasing Program tokens).

NOTE: Purchasing VMware licenses from Hewlett Packard Enterprise allows Hewlett Packard Enterprise to be the single point of contact for the entire solution inclusive of the virtualization software and is recommended. When the VMware license is not included on the order the solution level support experience is impacted.

HPE Integrated Lights Out Advanced Software (iLO Advanced)

Action	Description	Part
The HPE iLO Advanced license is required	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505

Step 4: Select service and support to perform the storage upgrade, migration, install and redeployment

Configuration Information

HPE provides a full range of support offers for these products. Foundation Care NBD is the minimum level of support, but Proactive Care, Data center Care and GreenLake are also available.

Contact your local sales representative or channel partner for more details.

Installation services are required for these products. HA124A1#5ZD needs to be ordered in a quantity matching the sum of the software SKUs from Step 2.

Technical Specifications

Physical Dimensions

1U form factor: 1.69 x 17.11 x 24.21 in (4.29 x 43.46 x 61.49 cm)

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <http://www.hp.com/go/green>. To recycle your product, please go to: <http://www.hp.com/go/green> or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site at: <http://www.hpe.com/recycle>. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

Summary of Changes

Date	Version History	Action	Description of Change
02-Dec-2019	Version 2	Changed	Overview and Standard Feature were updated.
03-Sep-2019	Version 1	New	QuickSpecs created.



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