

Overview

HPE SimpliVity 380 Gen10



HPE SimpliVity 380, based on the HPE ProLiant DL380 Gen10 Servers, is a compact, scalable 2U rack-mounted building block that delivers server, storage, and storage networking services. Adaptable for diverse virtualized workloads, the secure 2U HPE ProLiant DL380 Gen10 delivers world-class performance with the right balance of expandability and scalability. It also provides a complete set of advanced functionality that enables dramatic improvements to the efficiency, management, protection, and performance—at a fraction of the cost and complexity of today's traditional infrastructure stack.

What's New

- Added flexibility to expand node storage and add a second CPU (with additional memory) to 1P nodes within the field
- Support for the latest VMware Hypervisor release vSphere 6.7 U1 and vCenter 6.7 U1
- Support for greenfield and brownfield deployments of up to 16 nodes in one single cluster
- Parallel node deployments and upgrades

Scalable and Configurable

- Expandable in 1 node increments up to 96 total nodes*
- Processor - Choice of Intel® Xeon® Scalable Processors
- Memory - 144GB to 1536GB (Per Node)
- Network - 10Gb, 1Gb
- Power – Redundant
- Virtualization Software and Licensing
- All in a compact 2U form factor

NOTE: It is strongly recommended that an HPE SimpliVity 380 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

- VMware vSphere
- HPE SimpliVity management plugin for VMware vCenter
- Microsoft Hyper-V
- HPE SimpliVity management plugin for Microsoft System Center
- Optional Data Encryption support

Overview

- 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.

Standard Features

HPE SimpliVity 380 Gen10 At-a-Glance	
Node Size	2U
Processors	2x Intel® Xeon® Scalable Processors 8 to 22 cores selectable, 1 or 2CPU options
Memory	144GB to 1536GB per node selectable
Storage	Two All Flash Storage Options (4000/6000 Series) and 5 Capacity Points: Extra Small - 5 x 960GB SSD Kit Small - 5 x 1.92TB SSD Kit Medium - 9x 1.92TB SSD Kit Large - 12 x 1.92TB SSD Kit Extra Large – 12 x 3.84TB SSD Kit (4000 Series only)
Network Ports	Ethernet 1Gb LOM embedded, Choice of 2 x 10Gb FLOM
Power Supplies	HPE 800W FS Plat Ht Plg Pwr Supply Kit* HPE 800W FS -48VDC Ht Plg Pwr Supply Kit* HPE 800W FS Ti Ht Plg Pwr Supply Kit* HPE 800W FS Univrsal Ht Plg Pwr Spply Kit* HPE 1600W FS Plat Ht Plg LH Pwr Sply Kit
Hardware Warranty¹	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response
Hardware Support	3-year HPE SimpliVity 380 Gen10 solution support (required)
NOTE¹: 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*: 800W Power Supply is only supported with specific configurations.	

Features and Benefits

Fully integrated system

Combines x86 resources, storage, and storage networking in a single 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. Hardware-assisted 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

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

Standard Features

Virtualization Platform Software and Licenses

NOTE: The HPE SimpliVity 380 Gen10 supports VMware ESXi 6.0 and 6.5 and Microsoft Hyper-V Server 2016.

- VMware vSphere installation media is required to complete the installation and is available from HPE when ordering the HPE SimpliVity 380 Gen10
- Valid licenses for the following VMware software components are required and is available from HPE when ordering the HPE SimpliVity 380 Gen10
 - (1 or 2) VMware vSphere license(s) per node depending on CPU count
 - (1) VMware vCenter license
- Microsoft Hyper-V Server installation media is required to complete the installation and is available from HPE when ordering the HPE SimpliVity 380 Gen10
- Valid licenses for the following Microsoft software components are required and is available from HPE when ordering the HPE SimpliVity 380 Gen10
 - (1 or 2) Microsoft Hyper-V Server 2016 license(s) per node depending on CPU and core count
 - (1) Microsoft Systems Center 2016 Virtual Machine Manager license
 - (1) Microsoft Active Directory Server

NOTE: HPE SimpliVity 380 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 license 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.

NOTE: HPE SimpliVity 380 Gen10 for Microsoft Hyper-V requires valid Microsoft Hyper-V Server, and Systems Center Virtual Machine Manager licenses. Microsoft licenses can only be removed from the order if it is confirmed that the end-customer has a valid license in place.

NOTE: Purchasing Microsoft 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.

Management

- VMware vCenter
- HPE SimpliVity management plugin for VMware vCenter
- Microsoft System Center
- HPE SimpliVity management plugin for Microsoft System Center

NOTE: The HPE SimpliVity 380 Gen10 supports VMware vCenter 6.0 and 6.5 as well as Microsoft System Center 2016.

NOTE: For VMware, Microsoft and HW compatibility, please see the interoperability guide <http://h22208.www2.hpe.com/eginfolib/servers/docs/simplivity/HPE%20SimpliVity%20Interoperability%20Guide-3.7.1.pdf>

Configuration Information

Overview for New System

Use the following steps to order a new SimpliVity 380 Gen10 system:

Step 1: Start with the base node

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

Step 3: Auto Add of SW that correlates to node configuration

Step 3: Select the software options to add to the node: VMware vSphere

Step 4: Select service and support

Step 1: Base Node

Action	Description	Part #
Select the base node	HPE SimpliVity 380 Gen10 Node	Q8D81A
Select Hypervisor Option	VMware ESXi Option	#001
	Microsoft Hyper-V Option	#002

Processors

CPU Configurations

Action	Details	Description	CPU SKU
Select CPUs for the node	Primary		
	8C 2.1GHz 85W	HPE DL380 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor Kit	826846-L21
In the case of Single CPU only L21 SKU will be included by the configurator.	8C 1.8GHz 85W	HPE DL380 Gen10 Intel Xeon-Silver 4108 (1.8GHz/8-core/85W) FIO Processor Kit	826848-L21
	10C 2.2GHz 85W	HPE DL380 Gen10 Intel Xeon-Silver 4114 (2.2GHz/10-core/85W) FIO Processor Kit	826850-L21
	12C 2.1GHz 85W	HPE DL380 Gen10 Intel Xeon-Silver 4116 (2.1GHz/12-core/85W) FIO Processor Kit	826852-L21
In the case of dual CPU: both the L21 and the B21 SKU will be included by the configurator	12C 2.3GHz 105W	HPE DL380 Gen10 Intel Xeon-Gold 5118 (2.3GHz/12-core/105W) FIO Processor Kit	826854-L21
	14C 2.2GHz 105W	HPE DL380 Gen10 Intel Xeon-Gold 5120 (2.2GHz/14-core/105W) FIO Processor Kit	826856-L21
	12C 2.6GHz 125W	HPE DL380 Gen10 Intel Xeon-Gold 6126 (2.6GHz/12-core/120W) FIO Processor Kit	826862-L21
	16C 2.1GHz 125W	HPE DL380 Gen10 Intel Xeon-Gold 6130 (2.1GHz/16-core/120W) FIO Processor Kit	826866-L21
	14C 2.6GHz 140W	HPE DL380 Gen10 Intel Xeon-Gold 6132 (2.6GHz/14-core/140W) FIO Processor Kit	826870-L21
	18C 2.3GHz 140W	HPE DL380 Gen10 Intel Xeon-Gold 6140 (2.3GHz/18-core/150W) FIO Processor Kit	826878-L21
	18C 2.7GHz 165W	HPE DL380 Gen10 Intel Xeon-Gold 6150 (2.7GHz/18-core/165W) FIO Processor Kit	826884-L21
	18C 3.0GHz 200W	HPE DL380 Gen10 Intel Xeon-Gold 6154 (3.0GHz/18-core/200W) FIO Processor Kit	826888-L21
	10C 2.4GHz 85W	HPE DL380 Gen10 Intel Xeon-Gold 5115 (2.4GHz/10-core/85W) FIO Processor Kit	876562-L21
	22C 2.1GHz 140W	HPE DL380 Gen10 Intel Xeon-Gold 6152 (2.1GHz/22-core/140W) FIO Processor Kit	826886-L21
	8C 3.2GHz 130W	HPE DL380 Gen10 Intel Xeon-Gold 6134 (3.2GHz/8-core/130W) FIO Processor Kit	826872-L21
	16C 2.6GHz 150W	HPE DL380 Gen10 Intel Xeon-Gold 6142 (2.6GHz/16-core/150W) FIO Processor Kit	826880-L21
	8C 3.5GHz 150W	HPE DL380 Gen10 Intel Xeon-Gold 6144 (3.5GHz/8-core/150W) FIO Processor Kit	826860-L21

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12C 3.2GHz 165W	HPE DL380 Gen10 Intel Xeon-Gold 6146 (3.2GHz/12-core/165W) FIO Processor Kit	826868-L21
12C 3.0GHz 150W	HPE DL380 Gen10 Intel Xeon-Gold 6136 (3.0GHz/12-core/150W) FIO Processor Kit	826874-L21
12C 3.0GHz 150W	HPE DL380 Gen10 Intel Xeon-Platinum 8158 (3.0GHz/12-core/150W) FIO Processor Kit	869090-L21
16C 2.0GHz 125W	HPE DL380 Gen10 Intel Xeon-Platinum 8153 (2.0GHz/16-core/125W) FIO Processor Kit	826890-L21
20C 2.0GHz 125W	HPE DL380 Gen10 Intel Xeon-Gold 6138 (2.0GHz/20-core/125W) FIO Processor Kit	826876-L21
20C 2.4GHz 150W	HPE DL380 Gen10 Intel Xeon-Gold 6148 (2.4GHz/20-core/150W) FIO Processor Kit	826882-L21
Secondary		
8C 2.1GHz 85W	HPE DL380 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) Processor Kit	826846-B21
8C 1.8GHz 85W	HPE DL380 Gen10 Intel Xeon-Silver 4108 (1.8GHz/8-core/85W) Processor Kit	826848-B21
10C 2.2GHz 85W	HPE DL380 Gen10 Intel Xeon-Silver 4114 (2.2GHz/10-core/85W) Processor Kit	826850-B21
12C 2.1GHz 85W	HPE DL380 Gen10 Intel Xeon-Silver 4116 (2.1GHz/12-core/85W) Processor Kit	826852-B21
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18C 2.3GHz 140W	HPE DL380 Gen10 Intel Xeon-Gold 6140 (2.3GHz/18-core/150W) Processor Kit	826878-B21
18C 2.7GHz 165W	HPE DL380 Gen10 Intel Xeon-Gold 6150 (2.7GHz/18-core/165W) Processor Kit	826884-B21
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10C 2.4GHz 85W	HPE DL380 Gen10 Intel Xeon-Gold 5115 (2.4GHz/10-core/85W) Processor Kit	876562-B21
22C 2.1GHz 140W	HPE DL380 Gen10 Intel Xeon-Gold 6152 (2.1GHz/22-core/140W) Processor Kit	826886-B21
8C 3.2GHz 130W	HPE DL380 Gen10 Intel Xeon-Gold 6134 (3.2GHz/8-core/130W) Processor Kit	826872-B21
16C 2.6GHz 150W	HPE DL380 Gen10 Intel Xeon-Gold 6142 (2.6GHz/16-core/150W) Processor Kit	826880-B21
8C 3.5GHz 150W	HPE DL380 Gen10 Intel Xeon-Gold 6144 (3.5GHz/8-core/150W) Processor Kit	826860-B21
12C 3.2GHz 165W	HPE DL380 Gen10 Intel Xeon-Gold 6146 (3.2GHz/12-core/165W) Processor Kit	826868-B21
12C 3.0GHz 150W	HPE DL380 Gen10 Intel Xeon-Gold 6136 (3.0GHz/12-core/150W) Processor Kit	826874-B21
12C 3.0GHz 150W	HPE DL380 Gen10 Intel Xeon-Platinum 8158 (3.0GHz/12-core/150W) Processor Kit	869090-B21
16C 2.0GHz 125W	HPE DL380 Gen10 Intel Xeon-Platinum 8153 (2.0GHz/16-core/125W) Processor Kit	826890-B21

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	20C 2.0GHz 125W	HPE DL380 Gen10 Intel Xeon-Gold 6138 (2.0GHz/20-core/125W) Processor Kit	826876-B21
	20C 2.4GHz 150W	HPE DL380 Gen10 Intel Xeon-Gold 6148 (2.4GHz/20-core/150W) Processor Kit	826882-B21

Memory

Action	Details	Description	SKU
Select a memory capacity for the node	6x 8GB AND 6x 16GB RDIMMs	HPE SimpliVity 144G 12 DIMM FIO Kit	Q8D82A
The appropriate memory and quantity will be included by the configurator 1 Kit required per CPU	12x 16GB RDIMMs	HPE SimpliVity 192G 12 DIMM FIO Kit	Q8D83A
	6x 32GB RDIMMs	HPE SimpliVity 192G 6 DIMM FIO Kit	Q8D84A
	6x 32GB AND 6x 8GB RDIMMs	HPE SimpliVity 240G 12 DIMM FIO Kit	Q8D85A
	6x 32GB AND 6x 16GB RDIMMs	HPE SimpliVity 288G 12 DIMM FIO Kit	Q8D86A
	12x 32GB RDIMMs	HPE SimpliVity 384G 12 DIMM FIO Kit	Q8D87A
	6x 64GB LRDIMMs	HPE SimpliVity 384G 6 DIMM FIO Kit	Q8D88A
	12x 64GB LRDIMMs	HPE SimpliVity 768G 12 DIMM FIO Kit	Q8D89A

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

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 of two storage configurations for the node	3-6TB	HPE SimpliVity 380 for 4000 Series Extra Small Storage Kit	Q8D90A
	6-12 TB	HPE SimpliVity 380 for 4000 Series Small Storage Kit	Q8D91A
	12-25TB	HPE SimpliVity 380 for 4000 Series Medium Storage Kit	Q8D92A
	20-40TB	HPE SimpliVity 380 for 4000 Series Large Storage Kit	Q8D93A
	40-80TB	HPE SimpliVity 380 for 4000 Series Extra Large Storage Kit	Q9J90A
	3-6TB	HPE SimpliVity 380 for 6000 Series Extra Small Storage Kit	Q8D94A
	6-12 TB	HPE SimpliVity 380 for 6000 Series Small Storage Kit	Q5V86A
	12-25TB	HPE SimpliVity 380 for 6000 Series Medium Storage Kit	Q5V87A
20-40TB	HPE SimpliVity 380 for 6000 Series Large Storage Kit	Q5V88A	

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 FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
	HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HPE Ethernet 10/25Gb 2P 640FLR-SFP28 Adapter	817749-B21
	HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21

Configuration Information

PCI Adapter

Action	System Max	Description	Part #
Additional PCI Adapters can be added in the case of dual socket with secondary riser.	3	HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
	3	HPE Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	3	HPE Ethernet 10Gb 2-port 530T Adapter	656596-B21
	3	HPE Ethernet 1Gb 4-port 366T Adapter	811546-B21
	3	HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21

Optional Fibre Channel HBA cards

Action	System Max	Description	Part #
Optional FC HBAs may be added if slots are available,	3	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A
	3	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	P9M76A

Optional GPUs

Action	System Max	Description	Part #
Optional Graphic Accelerator (1) may be added in the case of dual CPU with secondary riser	1	NVIDIA Tesla M10 Quad GPU Module	Q0J62A
	1	HPE NVIDIA Tesla P40 24GB Computational Accelerator	Q0V80A

Power Supplies

Action	Description	Part #
Two power supplies are required.	HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865414-B21
	HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit	865428-B21
	HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B21
	HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
	HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	830272-B21

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>

Action	Description	Part #
Additional hardware options are available	HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable	JD096C
	HPE FlexNetwork X240 10G SFP+ to SFP+ 3m Direct Attach Copper Cable	JD097C
	HPE FlexNetwork X240 10G SFP+ to SFP+ 5m Direct Attach Copper Cable	JG081C
	HPE FlexNetwork X240 10G SFP+ SFP+ 7m Direct Attach Copper Cable	JC784C
	HPE B-series SFP+ to SFP+ Active Copper 1.0m Direct Attach Cable	AP818A
	HPE B-series SFP+ to SFP+ Active Copper 3.0m Direct Attach Cable	AP819A
	HPE B-series SFP+ to SFP+ Active Copper 5.0m Direct Attach Cable	AP820A
	HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
	HPE LC to LC Multi-mode OM3 2-Fiber 2.0m 1-Pack Fiber Optic Cable	AJ835A
	HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
	HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A

Configuration Information

HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	455883-B21
HPE BladeSystem c-Class 10Gb SFP+ LR Transceiver	455886-B21
HPE BladeSystem c-Class Virtual Connect 1G SFP SX Transceiver	453151-B21
HPE 100Gb QSFP28 MPO SR4 100m Transceiver	845966-B21
HPE 0.9M Blue CAT6 STP Cable Data	AF594A
HPE 3.0M Blue CAT6 STP Cable Data	AF595A
HPE 10.0M Blue CAT6 STP Cable Data	AF596A
HPE 1.2m/4ft CAT5 RJ45 M/M Ethernet Cable	C7533A
HPE RJ45 to RJ45 Cat5e Black M/M 7.6ft 1-pack Data Cable	C7535A
HPE 4.3m/14ft CAT5 RJ45 M/M Ethernet Cable	C7536A

Action	Description	Part #
IT Rack Enclosures – all G2 Advanced and G2 Enterprise models are compatible.	HPE 42U 600mmx1075mm G2 Kitted Advanced Pallet Rack with Side Panels and Baying	P9K07A
	HPE 42U 600mmx1075mm G2 Kitted Advanced Shock Rack with Side Panels and Baying	P9K08A
	HPE 42U 600mmx1200mm G2 Kitted Advanced Pallet Rack with Side Panels and Baying	P9K09A
	HPE 42U 600mmx1200mm G2 Kitted Advanced Shock Rack with Side Panels and Baying	P9K10A
	HPE 42U 600mmx1075mm G2 Enterprise Pallet Rack	P9K37A
	HPE 42U 600mmx1075mm G2 Enterprise Shock Rack	P9K38A
	HPE 42U 600mmx1200mm G2 Enterprise Pallet Rack	P9K39A
	HPE 42U 600mmx1200mm G2 Enterprise Shock Rack	P9K40A

NOTE: For more information on HPE rack enclosures, review the QuickSpecs at: <https://www.hpe.com/us/en/product-catalog/servers/server-racks.hits-12.html>.

KVM Switches and Consoles – choose keyboard/video/mouse switch options supporting remote and/or local access – add a console to complete your rack-based solution.	HPE 0x1x8 G3 KVM Console Switch	AF651A
	HPE 0x2x16 G3 KVM Console Switch	AF652A
	HPE 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
	HPE 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
	HPE 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
	HPE LCD8500 1U US Rackmount Console Kit	AF630A
	HPE LCD8500 1U UK Rackmount Console Kit	AF631A
	HPE LCD8500 1U INTL Rackmount Console Kit	AF644A

NOTE: For more information on KVM switches and consoles, review the QuickSpecs at: <https://www.hpe.com/us/en/product-catalog/servers/kvm-switches-and-consoles.html>.

Power Distribution Units (PDU) – add a 2 nd PDU to create a redundant power configuration	HPE G2 Basic 3.6kVA/IEC C20 Detachable 16A/100-240V Outlets (20) C13 (2) C19/Vertical WW PDU	P9Q38A
	HPE G2 Metered 3.6kVA/IEC C20 Detachable 16A/100-240V Outlets (12) C13/1U Horizontal WW PDU	P9R50A
	HPE G2 Metered/Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	P9S15A
	HPE G2 Metered/Switched 7.3kVA/60309 3-wire 32A/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	P9S18A

NOTE: For more information on HPE PDU models and accessories, review the quickspec at: <https://www.hpe.com/us/en/product-catalog/servers/power-distribution-units.hits-12.html>.

Uninterruptible Power Supply (UPS) – add a reliable UPS to	HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
	HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A

Configuration Information

provide protection
against power loss.

NOTE: For more information on UPS products, review the QuickSpecs at: <https://www.hpe.com/us/en/product-catalog/servers/uninterruptible-power-system.hits-12.html>.

Additional Server Options

Action	Description	Part #
Additional hardware options are available	HPE DL380 Gen10 SFF Systems Insight Display Kit	826703-B21
	HPE DL3XX Gen10 Rear Serial Cable and Enablement Kit	873770-B21
	HPE 2U Small Form Factor Ball Bearing Rail Kit	720863-B21
	HPE 2U Cable Management Arm for Ball Bearing Rail Kit	720865-B21
	HPE 2U Small Form Factor Easy Install Rail Kit	733660-B21

HPE OmniStack Software

Action	Description	Part #
Based on the hardware configurations in step 1 & 2 the appropriate software will be included by the configurator. The software is determined by CPU and storage configuration and is required	HPE OmniStack 8-14c 1P Extra Small SW	Q8A57A
	HPE OmniStack 8-14c 2P Extra Small SW	Q8A58A
	HPE OmniStack 8-14c 1P Small SW	Q8A59A
	HPE OmniStack 8-14c 2P Small SW	Q8A60A
	HPE OmniStack 8-14c 1P Medium SW	Q8A61A
	HPE OmniStack 8-14c 2P Medium SW	Q8A62A
	HPE OmniStack 8-14c 1P Large SW	Q8A63A
	HPE OmniStack 8-14c 2P Large SW	Q8A64A
	HPE OmniStack 8-14c 1P Extra Large Software	Q9J86A
	HPE OmniStack 8-14c 2P Extra Large Software	Q9J87A
	HPE OmniStack 16-22c 1P Extra Small SW	Q8A65A
	HPE OmniStack 16-22c 2P Extra Small SW	Q8A66A
	HPE OmniStack 16-22c 1P Small SW	Q8A67A
	HPE OmniStack 16-22c 2P Small SW	Q8A68A
	HPE OmniStack 16-22c 1P Medium SW	Q8A69A
	HPE OmniStack 16-22c 2P Medium SW	Q8A70A
	HPE OmniStack 16-22c 1P Large SW	Q8A71A
	HPE OmniStack 16-22c 2P Large SW	Q8A72A
HPE OmniStack 16-22c 1P Extra Large Software	Q9J88A	
HPE OmniStack 16-22c 2P Extra Large Software	Q9J89A	

VMware Software

vSphere

NOTE: The HPE SimpliVity 380 Gen10 supports ESXi 6.0 and 6.5.

Action	Description	Part #
A valid VMware vSphere license is required for each CPU to complete deployment.	VMware vSphere Standard 1 Processor 3yr E-LTU	BD711AAE
	VMware vSphere Enterprise Plus 1 Processor 3yr Software	BD715A
	VMware vSphere Enterprise Plus 1 Processor 3yr E-LTU	BD715AAE
	VMware vSphere Remote Office Branch Office Standard 25VM 3yr E-LTU	P9A82AAE
	VMware vSphere Remote Office Branch Office Advanced 25VM 3yr E-LTU	P9A85AAE
If an order is placed without VMware licenses, the user agrees to supply the necessary license.	VMware vSphere Standard 1 Processor 5yr Software	BD512A
	VMware vSphere Standard 1 Processor 5yr E-LTU	BD512AAE
	VMware vSphere Enterprise Plus 1 Processor 5yr Software	BD514A
	VMware vSphere Enterprise Plus 1 Processor 5yr E-LTU	BD514AAE

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NOTE: HPE SimpliVity 380 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.

vCenter

Action	Description	Part #
Optional vCenter License	VMware vCenter Server Standard for vSphere (per Instance) 3yr E-LTU	P9U41AAE
	VMware vCenter Server Standard for vSphere (per Instance) 5yr E-LTU	P9U42AAE

NOTE: The customer is responsible for ensuring licensing compliance on all running virtual machines. Licenses may be added to the order as standalone items from the catalog. Licenses added at the node level will be cloned with the node.

NOTE: Information on available licenses for non-preinstalled Operating Systems can be found on the relevant product pages:

- Microsoft Windows Server 2016: <https://www.hpe.com/us/en/product-catalog/detail/pip.microsoft-windows-server-2016.1009480090.html>
- Red Hat Enterprise Linux: <https://www.hpe.com/us/en/product-catalog/detail/pip.5393115.html>
- SUSE Linux Enterprise Server: <https://www.hpe.com/us/en/product-catalog/detail/pip.5379857.html>

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	BD505A

Overview for Storage expansion or CPU add-on

Use the following steps to expand Storage or perform a CPU add-on (in other words, add a second CPU to 1P nodes) for your existing SimpliVity 380 Gen10 node:

Step 1: Start with the Expansion SKU

Step 2: Add the SW license that correlates to either a storage expansion or a CPU add-on configuration

Step 3: Select the hardware options to add either the storage drive kits or additional CPU and memory

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

Step 1: Start with the Expansion Kit SKU

Action	Description	Part #
Select the Expansion SKU	HPE SimpliVity 380 Gen10 Expansion Kit	R1F85A

Step 2: If Storage expansion is needed, add the SW license from below that correlates to the desired expansion configuration

Action	Description	Part #
Select the appropriate SW license according to the desired storage expansion configuration	HPE SimpliVity 380 1 Processor Small to Medium Storage Upgrade E-LTU	R1F86AAE
	HPE SimpliVity 380 2 Processors Small to Medium Storage Upgrade E-LTU	R1F88AAE
	HPE SimpliVity 380 1 Processor Medium to Large Storage Upgrade E-LTU	R1F87AAE
	HPE SimpliVity 380 2 Processors Medium to Large Storage Upgrade E-LTU	R1F89AAE

If a CPU add-on is needed, choose from the SW license below that correlates to the desired configuration for adding a second CPU

Action	Description	Part #
Select the appropriate SW license if you would like to add a second CPU to an	HPE SimpliVity 380 Additional Processor Extra Small Storage Upgrade E-LTU	R1F90AAE
	HPE SimpliVity 380 Additional Processor Small Storage Upgrade E-LTU	R1F91AAE
	HPE SimpliVity 380 Additional Processor Medium Storage Upgrade E-LTU	R1F92AAE
	HPE SimpliVity 380 Additional Processor Large Storage Upgrade E-LTU	R1F93AAE

Configuration Information

existing 1P SimpliVity 380 node	HPE SimpliVity 380 Additional Processor Extra Large Storage Upgrade E-LTU	R1F94AAE
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Step 3: Select the hardware options to add either the storage drive kits or additional CPU and memory

Action	Description	Part #
Select the appropriate storage upgrade kits based on the desired storage expansion configuration	HPE SimpliVity 380 Upgrade to Medium 4000 Series Storage Kit	R1F81A
	HPE SimpliVity 380 Upgrade to Large 4000 Series Storage Kit	R1F82A
	HPE SimpliVity 380 Upgrade to Medium 6000 Series Storage Kit	R1F83A
	HPE SimpliVity 380 Upgrade to Large 6000 Series Storage Kit	R1F84A

Action	Description	Part #
Select these storage option if upgrading from a Small to a Medium configuration	HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller	804338-B21
	HPE DL38X Gen10 SFF Box1/2 Cage/Backplane Kit	826691-B21

Action	Description	Part #
Select the appropriate CPU for performing the CPU add-on to your existing 1P SimpliVity 380 nodes	HPE DL380 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) Processor Kit	826846-B21
	HPE DL380 Gen10 Intel Xeon-Silver 4108 (1.8GHz/8-core/85W) Processor Kit	826848-B21
	HPE DL380 Gen10 Intel Xeon-Silver 4114 (2.2GHz/10-core/85W) Processor Kit	826850-B21
	HPE DL380 Gen10 Intel Xeon-Silver 4116 (2.1GHz/12-core/85W) Processor Kit	826852-B21
	HPE DL380 Gen10 Intel Xeon-Gold 5118 (2.3GHz/12-core/105W) Processor Kit	826854-B21
	HPE DL380 Gen10 Intel Xeon-Gold 5120 (2.2GHz/14-core/105W) Processor Kit	826856-B21
	HPE DL380 Gen10 Intel Xeon-Gold 6126 (2.6GHz/12-core/120W) Processor Kit	826862-B21
	HPE DL380 Gen10 Intel Xeon-Gold 6130 (2.1GHz/16-core/120W) Processor Kit	826866-B21
	HPE DL380 Gen10 Intel Xeon-Gold 6132 (2.6GHz/14-core/140W) Processor Kit	826870-B21
	HPE DL380 Gen10 Intel Xeon-Gold 6140 (2.3GHz/18-core/150W) Processor Kit	826878-B21
	HPE DL380 Gen10 Intel Xeon-Gold 6150 (2.7GHz/18-core/165W) Processor Kit	826884-B21
	HPE DL380 Gen10 Intel Xeon-Gold 6154 (3.0GHz/18-core/200W) Processor Kit	826888-B21
	HPE DL380 Gen10 Intel Xeon-Gold 5115 (2.4GHz/10-core/85W) Processor Kit	876562-B21
	HPE DL380 Gen10 Intel Xeon-Gold 6152 (2.1GHz/22-core/140W) Processor Kit	826886-B21
	HPE DL380 Gen10 Intel Xeon-Gold 6134 (3.2GHz/8-core/130W) Processor Kit	826872-B21
	HPE DL380 Gen10 Intel Xeon-Gold 6144 (3.5GHz/8-core/150W) Processor Kit	826860-B21
	HPE DL380 Gen10 Intel Xeon-Gold 6146 (3.2GHz/12-core/165W) Processor Kit	826868-B21
	HPE DL380 Gen10 Intel Xeon-Gold 6136 (3.0GHz/12-core/150W) Processor Kit	826874-B21
	HPE DL380 Gen10 Intel Xeon-Platinum 8158 (3.0GHz/12-core/150W) Processor Kit	869090-B21
	HPE DL380 Gen10 Intel Xeon-Platinum 8153 (2.0GHz/16-core/125W) Processor Kit	826890-B21
HPE DL380 Gen10 Intel Xeon-Gold 6138 (2.0GHz/20-core/125W) Processor Kit	826876-B21	
HPE DL380 Gen10 Intel Xeon-Gold 6148 (2.4GHz/20-core/150W) Processor Kit	826882-B21	

Action	Description	Part #
Select the Processor Heat Sink	HPE DL380 Gen10 High Performance Heat Sink Kit	826706-B21

Action	Description	Part #
Select the appropriate memory kit for your second CPU	HPE SimpliVity 144G 12 DIMM Slots Memory Kit	R1Q89A
	HPE SimpliVity 192G 12 DIMM Slots Memory Kit	R1Q90A
	HPE SimpliVity 192G 6 DIMM Slots Memory Kit	R1Q91A
	HPE SimpliVity 240G 12 DIMM Slots Memory Kit	R1Q92A
	HPE SimpliVity 288G 12 DIMM Slots Memory Kit	R1Q93A
	HPE SimpliVity 384G 12 DIMM Slots Memory Kit	R1Q94A
	HPE SimpliVity 384G 6 DIMM Slots Memory Kit	R1Q95A
	HPE SimpliVity 768G 12 DIMM Slots Memory Kit	R1Q96A

Configuration Information

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

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.

Service and Support

Step 4: Service and Support

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

Technology Services for increased uptime, productivity and ROI

At HPE, our priority is to maximize your workload uptime, avoiding problems before they occur. As the experts for the HPE SimpliVity 380 Gen10, HPE Pointnext support will be your 24x7x 365 single point-of-contact for all of your support needs with HPE Pointnext Proactive Care Support. This means you can spend more time developing apps and adding value to the business rather than maintaining your infrastructure.

If there is a potential risk in your infrastructure, our remote support technology will proactively notify HPE and initiate the resolution process. If you are experiencing any issue with your solution, HPE Pointnext Proactive Care will provide you immediate access to our team of solution experts, whose first priority is to ensure your workloads are up and running, and then immediately start diagnosing the failure.

HPE Pointnext offers its full portfolio of support services. This includes Foundation Care, Proactive Care, Proactive Care Advanced and Datacenter Care. Flexible Capacity and Operational Support Services are also available.

HPE SimpliVity 380 Gen10 is supported by the power of HPE, in 30+ different languages, with local presence across 140 countries.

Please consult your HPE Sales Representative for any additional questions and support options.

Installation and Startup Services

HPE Pointnext provides a full set of installation and startup services to meet your unique requirements.

Action	Description	Part #
Hardware install service	HPE SVT 380 Hardware Install service	HA114A1#5LY
Remote software install service	HPE SVT 380 Remote software install service	HA124A1#5LZ
Onsite software install service	HPE SVT 380 Onsite Software install service	HA124A1#5MF
Update your firmware and SVT/VMware software	HPE SVT 380 Software and Firmware update service.	HA124A1#5MK

NOTE: Please contact your HPE Sales Representative for more information.

NOTE: For more information on Technology Services please visit: <https://www.hpe.com/us/en/services.html>

Warranty

This product is covered by a global limited warranty and supported by Hewlett Packard Enterprise Pointnext and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Pointnext operational services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

This hardware warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge.

Parts and Materials 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.

Configuration Information

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

Technical Specifications

Physical Dimensions

2U form factor: 3.44 x 26.75 x 17.54 in (8.73 x 67.94 x 44.54 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.hp.com/go/green>. 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
04-Feb-2019	Version 9	Changed	Overview and Configuration Information sections were updated.
		Added	SKUs added in Configuration Information section: R1F85AAE, R1F86AAE, R1F88AAE, R1F87AAE, R1F89AAE, R1F90AAE, R1F91AAE, R1F92AAE, R1F93AAE, R1F94AAE, R1F81AAE, R1F82AAE, R1F83AAE, R1F84AAE, 804338-B21, 826691-B21, 826846-B21, 826848-B21, 826850-B21, 826852-B21, 826854-B21, 826856-B21, 826862-B21, 826866-B21, 826870-B21, 826878-B21, 826884-B21, 826888-B21, 876562-B21, 826886-B21, 826872-B21, 826860-B21, 826868-B21, 826874-B21, 869090-B21, 826890-B21, 826876-B21, 826882-B21, 826706-B21, R1Q89A, R1Q90A, R1Q91A, R1Q92A, R1Q93A, R1Q94A, R1Q95A, R1Q96A.
07-Jan-2018	Version 8	Changed	Configuration Information section was updated.
		Removed	SKUs were deleted: 871619-L21, 869089-L21, 879423-L21, 874762-L21, 871617-L21, 871618-L21.
05-Nov-2018	Version 7	Changed	Overview, and Configuration Information sections were updated.
		Added	SKUs added in Configuration Information: 764302-B21, Q0V80A.
		Removed	Obsolete SKUs were deleted in Configuration Information: J2R02A, J2R04A
07-May-2018	Version 6	Added	Standard Features and Configuration Information sections were updated.
05-Mar-2018	Version 5	Changed	Overview, Standard Features and Configuration Information sections were updated.
		Added	SKUs were added in Configuration Information section: 826872-B21, 826872-L21, 874762-B21, 874762-L21, Q9J90A, 700759-B21, 817749-B21, Q8A61A, Q8A62A, Q8A63A, Q8A64A, Q9J86A, Q9J87A, Q8A69A, Q8A70A, Q8A71A, Q8A72A, Q9J88A, Q9J89A.
04-Dec-2017	Version 4	Changed	Standard Features, Configuration Information, Service and Support, and Technical Specifications sections were updated.
		Added	SKUs were added in Configuration Information: 874762-L21, Q8D94A, Q5V86A, Q5V87A, Q5V88A, 811546-B21.
06-Nov-2017	Version 3	Changed	Changes made to the document
02-Oct-2017	Version 2	Changed	Changes made to the entire document
25-Sept-2017	Version 1	New	QuickSpecs created.



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