

HPE SimpliVity 380 Gen10 G Node (R2G96A)



What's new

- HPE SimpliVity 380 Gen10 Plus nodes with new 4th Generation Intel® Xeon® Ice Lake CPUs
- HPE 3.84TB SATA SSD drives
- Support for Broadcom MR216i-p and NS204i-p boot drive controllers
- NVIDIA A100, A40, A30, A16, A10, A2 and T4 GPU's for next generation, intelligent workloads
- HPE SimpliVity 380 Gen10 Plus can achieve 32 TB with only twelve 3.84 TB SSDs
- HPE SimpliVity 380 Gen10 Plus will support single and dual disk resiliency as deployment option similar to other HPE SimpliVity software optimized nodes

Overview

Is complexity in your data center slowing you down?

HPE SimpliVity 380 gives IT organizations the agility and economics of the cloud with the control and governance of on-premises IT. It delivers a powerhouse Hyperconverged Solution optimized to support the world's most efficient and resilient data centers. This solution dramatically simplifies IT by combining infrastructure and advanced data services for virtualized workloads on a single device. Delivered on HPE ProLiant DL380 servers, the HPE SimpliVity 380 is a compact, scalable, 2U rack-mounted building block that consolidates server, storage, and storage networking services. By delivering a complete set of advanced functionalities, SimpliVity solutions enable dramatic improvements in the operational efficiency, management, protection, and performance for general purpose virtualized workloads for a fraction of the cost and complexity compared to today's traditional infrastructure stack.

Features

Complete Hyperconvergence in a Fully Integrated System

The HPE SimpliVity 380 combines x86 resources, storage, and storage networking in a single hyperconverged system with advanced functionality.

Simplifies management and delivers outstanding cost efficiency and agility.

Increased visibility and control of the entire virtualized environment via unified management.

Delivers orchestrated, simultaneous deployment and upgrades so you can deploy more simply and respond to business needs faster.

Unify virtual machines and infrastructure tasks to reduce virtual machine (VM) sprawl and over-provisioning.

Peak and Predictable Performance

The HPE SimpliVity 380 delivers an all-flash solution delivering predictable and near linear performance at near-wire speeds while reducing latency.

In-line deduplication, compression, and optimization helps reduce I/O and network traffic while dramatically shrinking backup window requirements.

On Demand Scale-in and Scale-out

The HPE SimpliVity 380 can easily expand or contract configurations as your needs change.

Each node supports a large number of fully protected virtual machines (VMs).

A networked collection of nodes at both local and remote sites are managed as a single entity.

Flexibility to expand node storage and add a second CPU (with additional memory) to 1P nodes within the field.

Federations scale up to 96 nodes. Heterogenous federation support (clusters of HPE SimpliVity 380 Gen9/Gen10 and legacy HPE SimpliVity can be federated with clusters of HPE SimpliVity 380 G or HPE SimpliVity 380 Gen10 Plus, HPE SimpliVity 325 Gen10/Gen10 Plus v2 and HPE SimpliVity 2600 Gen10).

Advanced Data Services

The HPE SimpliVity 380 delivers always-on deduplication and compression to significantly reduce capacity utilization.

Built-in resiliency, backup, and disaster recovery for enterprise-grade data protection.

Policy-based, virtual machine (VM) centric management to streamline operations.

HPE SimpliVity RapidDR is a Disaster Recovery(DR) orchestration tool for HPE SimpliVity platforms to simplify, automate, and accelerate offsite DR for rapid recovery of applications.

Optional Data at Rest Encryption (DARE) support.



Technical specifications

HPE SimpliVity 380 Gen10 G Node

Product Number	R2G96A
Number of processors	1 or 2 Intel Xeon® Scalable Processors, depending on configuration
Processor core available	8 to 28 cores per processor, depending on processor selected, minimum 16 cores on 380 G x6 SSD node required, minimum 22 cores on 380 G x8 SSD, Gx 9 SSD, G x12 SSD, G x16 SSD, G x18 SSD and G x24 SSD nodes are required.
Memory	128 GB to 3,072 GB per node, depending on configuration
Storage	<ol style="list-style-type: none"> Select one storage kit for the node Choose either read intensive or mixed use drive configuration <p>Read Intensive: Qty 1 of Q9Y49A (6x1.92 TB) is required for HPE SimpliVity 380 G 6x SSD; Qty 2 of R2Z28A (4x1.92 TB) is required for HPE SimpliVity 380 G 8x SSD; Qty 9x1.92 TB is required for HPE SimpliVity 380 G 9x SSD; Qty 3 of R2Z28A (4x1.92 TB) is required for HPE SimpliVity 380 G 12x SSD; Qty 4 of R2Z28A (4x1.92 TB) is required for HPE SimpliVity 380 G 16x SSD; Qty 18x1.92 TB is required for HPE SimpliVity 380 G 18x SSD Qty 6 of R2Z28A (4x1.92 TB) is required for HPE SimpliVity 380 G 24x SSD</p>
Ports	Ethernet 1Gb LOM embedded, 10Gb FLOM
Power	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
Form factor	2U
Warranty	Server Warranty includes 3-year parts, 3-year labor, 3-year onsite support with next business day response. Additional information regarding worldwide limited warranty and technical support is available at: https://techlibrary.hpe.com/us/en/enterprise/servers/warranty/



For additional technical information, available models and options, please reference the [QuickSpecs](#)

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Consulting services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- HPE Complete Care Service: a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- HPE Tech Care Service: the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

The [Defective Media Retention \(DMR\)](#) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. [Comprehensive Defective Material Retention \(CDMR\)](#) allows you to keep all data retentive components.

HPE GreenLake

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please explore them [here](#).

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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.

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