

HyperGrid™ HyperConverged Appliance

HyperConverged Infrastructure will all-flash performance with easy deployment

Overview

The HyperGrid™ all-flash HyperConverged Appliance (HCA) combines compute, storage area network, and storage into a single 2U system, reducing the data center footprint by 75%. Compared to other HCI solutions, as well as converged and traditional infrastructure, HyperGrid HCI:

- » Performs 6-10 times faster than traditional infrastructure, due to all-flash storage and inline erasure coding
- » Costs 50-66% less than the leading HCI vendor, with independent compute and storage scaling (no dedicated CPU/ memory allocation required by other HCI solutions)
- » Supports a higher density of virtual machines (VM) for the highest price/ performance ratio in the industry

Architecture

HyperGrid is the only HCI with a parallel all-flash architecture with in-kernel processing for easy deployment and cost-effective scaling. Instead of replicating the full infrastructure stack three times like other HCI platforms, HyperGrid uses erasure coding that offers the same fault tolerance and usable capacity but uses 50% less storage and system load

- » A four-node HyperGrid HCA can have:
 - » All-Flash HyperConverged Nodes (FCNs)
 - » All-Flash Storage-only Nodes (FSNs)
 - » A mixture of FCNs and FSNs
- » Up to six drives per node

A two-node HyperGrid HCA for high performance graphics processing can have:

- » All-Flash Graphics Nodes (FGNs)

- » A mixture of FGNs, FCNs, and FSNs
- » Up to 12 drives per node

Use Cases

HyperGrid HCI simplifies the data center and moves business to the Digital Enterprise. It is purpose-built for the Microsoft ecosystem, allowing even greater savings with support for Microsoft data services and Azure integration. It is the fastest HCI with the greatest scalability for the following use cases across all industries:

- » Private Cloud-in-a-box
- » SQL Server Consolidation
- » Remote Office/Branch Office
- » VMware to Hyper-V Migration

Key Benefits

- » Independent scaling of compute and storage
- » Predictable, controllable high performance
- » Easy deployment
- » 50% lower total cost of ownership (TCO) than converged infrastructure
- » 75% smaller footprint with higher VM density than converged infrastructure

“HyperCloud enables customers to adopt hybrid cloud, modernize their infrastructure and accelerate delivery of their applications”

*— Kyle Betts, Sr. Solutions Architect
Technologist*

HyperConverged Appliance Specifications

HyperGrid HCI* can be tailored per workload/environment as follows

		All Flash Compute Storage Node - HG-4000	All Flash Compute Storage Node HG-5000
Per Node			
	Hot-Swap Node	Yes	Yes
	Drive Capacity	960GB or 1,920GB or 3,840GB (SSDs)	960GB or 1,920GB or 3,840GB (SSDs)
SMALL	Processor (Small)	2 x Intel Xeon Silver 4110 2.1G, 8 Cores/16T per node	2 x Intel Xeon Silver 4110 2.1G, 8 Cores/16T per node
	Cores	16 cores per node	16 cores per node
	Memory	384 GiB	384 GiB
	Disk Space	3.3 TB (Usable)	3.3 TB (Usable)
	Processor (Medium)	2 x Intel Xeon Silver 4114 2.2G, 10 Cores/20T per node	2 x Intel Xeon Silver 4114 2.2G, 10 Cores/20T per node
MEDIUM	Cores	20 cores per node	20 cores per node
	Memory	1152 GiB	1152 GiB
	Disk Space	13.3 TB (Usable)	13.3 TB (Usable)
LARGE	Processor (Large)	2 x Intel Xeon Gold 6132 2.6G, 14 Cores/28T per node	2 x Intel Xeon Gold 6132 2.6G, 14 Cores/28T per node
	Cores	28 cores per node	28 cores per node
	Memory	2304 GiB	2304 GiB
	Disk Space	26.7 TB (Usable)	26.7 TB (Usable)
	Rackspace for 3 node cluster and switch pair	3U	7U
	NICS	6 x 10Gb SFP+ ports	6 x 10Gb SFP+ ports
	Hot-Swap Drives	Yes	Yes
	Included Software	HyperGrid Full Stack SW	HyperGrid Full Stack SW
		HG-4000	HG-5000
	Capacity	6 x 3.84TB per node	24 x 3.84TB per node
	Chasis Dimensions	8.68 x 44.8 x 79 cm	8.73 x 44.54 x 73.02 cm
	Max. Weight	43.62 Kg	19.5 Kg
	Power	2 Redundant PSUs per node	2 Redundant PSUs per node
	Operating Temperature	10°C to 35°C (50°F to 95°F)	10°C to 35°C (50°F to 95°F)
	Non-Oper Temperature	-40°C to 65°C (-40°F to 149°F)	-40°C to 65°C (-40°F to 149°F)

*Maximum cluster size recommended is a 12 node cluster

About HyperGrid

Founded in 2016, and headquartered in San Jose, California, with additional offices in the U.S., Europe, and Asia, HyperGrid supports a diverse global customer base. Backed by noted venture capital firms, HyperGrid has earned industry recognition for milestone achievements, including Forrester Wave Report Hybrid Cloud Management 2018; CRN Top 10 Hottest Cloud Computing Startup 2018; CRN Datacenter 100 2018; Best of VMworld Finalist 2017; and SVC Cloud Management of the Year 2017. Visit <http://hypergrid.com/solutions/software-defined-infrastructure/> to learn more



US - 855.786.7065 | UK - 44(0)203.553.3662 | [@hypergrid](https://twitter.com/hypergrid) | www.hypergrid.com

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