

Accelerate Innovation With Next-Generation Hyperconverged Infrastructure

Improve IT Agility and Efficiency

A photograph showing three business professionals (two men and one woman) sitting around a round wooden table in a meeting. They are looking at documents and talking. The man on the left is wearing a grey suit, the woman on the right is wearing a black blazer, and the woman in the foreground is wearing a light blue top. They are all holding pens and looking at papers on the table.

OVERVIEW

Technology teams are under pressure to align IT services with business growth, while maintaining tight IT budgets. Competitive pressures require organizations to accelerate time to market, to gain sustainable business advantage. Hitachi Vantara's hyperconverged solutions help you deliver digital disruption by simplifying IT complexity and lowering total cost of ownership (TCO), while reducing risks.



Improve IT Efficiency With Hyperconverged Solutions for VMware Environments

Drive down TCO with software-defined data-center technologies, introduced with the hyperconverged Hitachi Unified Compute Platform HC (UCP HC) family. Unleash the power of hyperconvergence by driving up performance and availability for your critical business applications, improving return on investment (ROI). Reduce dependence on human intervention by automating the routine IT operations with policies that deliver service level objectives per application. Reduce costs by eliminating resource overprovisioning with a policy-based management framework. Use integrated data reduction technologies to reduce actual storage consumption, bringing down capital expenditure (capex).

Hitachi Unified Compute Platform HC for Modern Enterprises

The UCP HC family offers VMware vSAN-powered hyperconverged solutions that accelerate time to market, and eliminate complexity of legacy IT infrastructure. UCP HC solutions are architected to linearly scale, without loss in performance or control, to be in lockstep with business initiatives. They provide the flexibility that allows IT teams to grow UCP HC environment, just when it is needed, freeing up capex in underutilized resources. It leverages industry-leading, software-defined storage VMware vSAN for you to continue to leverage your skills and experience on VMware toolsets, without learning new management software.



We were running against time for go-live of our branch office that had limited IT staff. Hitachi UCP HC enabled us to meet business timelines and delivered a robust Hyperconverged platform to support new initiatives, without requiring a dedicated team. It provided the benefits of cloud: cost optimization, agility, and ability to keep pace with business requirements.

Brad Skeel
Sr. Manager
Enterprise Cloud Ops &
Engineering, Server Support
Deluxe® Corporation



Reliable, Scalable Platform for Traditional and Cloud-Native Workloads

The UCP HC family redefines simplicity with compute, storage and virtualization in a simple, scalable, easy-to-deploy hyperconverged appliance. Each UCP HC family model combines industry-leading policy-based management and data protection solutions in a single, all-inclusive, easy-to-order solution to help you deliver agile and efficient IT services.

IT Agility

UCP HC solutions allow provisioning of virtual machines (VMs) in minutes after initial racking and cabling, enabling customers to accelerate time to value.

UCP HC solutions help you align IT with business requirements.

Improved IT Efficiency

Increase VM density with predictable performance to maximize your ROI from infrastructure investments. The ability to leverage software-defined data center elements with industry-standard hardware reduces capex and operational expenses (opex) of UCP HC solutions.

Maximize IT efficiency with reduced operational overheads due to automation.

Flexibility: Tailor IT to Your Business Needs

UCP HC family solutions enable businesses to become more flexible with pay-as-you-grow deployment models. Linearly scale-out to provide investment predictability, without requiring massive upfront expenditure in legacy three-tier architecture.

You have the flexibility in component configuration to meet IT needs that are specific to your applications.

Continuous Application Availability

UCP HC solutions provide local and remote data protection, ensuring continuous availability of and access to applications and data, despite one or multiple failures of hardware or software. All models are designed for no single point of failure.

Built-in resilience tolerates failure of disks, host, rack or entire site and ensures always-on applications.

VM-Centricity

The robust policy-based automation framework of the UCP HC family delivers data services per VM, eliminating uncertainty. Through policies, this framework delivers the IT services that applications need.

Gain greater efficiency with the move from infrastructure-oriented to VM-centric IT.

Smart Life-Cycle Management

Hitachi Unified Compute Platform Advisor, employed with UCP HC solutions, provides smart life-cycle management for your physical infrastructure, enabling firmware upgrades, hardware monitoring and power management. It offers centralized management of firmware, processors, chassis status, bios settings, Ethernet ports and more.

Use this simplified approach to manage your physical and virtual infrastructure.



Modernize Data Centers With Hyperconverged Infrastructure

Select the hyperconverged system that helps meet your strategic objectives by delivering predictable IT, while lowering business risk.

Consistent High Performance for Mixed Workloads

Require scalable performance from your hyperconverged infrastructure, to support performance-sensitive, business-critical applications.

High VM Density Lowers IT Costs

For higher ROI, ensure that you have high VM density, without resource contention.

IT Resilience Is Imperative: Downtime Is Not an Option

High availability is a necessary prerequisite to ensure your applications are running 24/7. Snapshot, remote replication and stretched cluster configurations to meet application uptime SLAs.

Unified Management

Single software interface for provisioning, management, orchestration and monitoring.

Space Efficiency

Improve operational efficiency by reducing storage requirement with deduplication, compression and erasure coding, with minimalistic impact on performance.

Ensure Investment Continuity: Maximize Existing Expertise

Leverage your organization's skill sets and experience on VMware software, without requiring new learning new tools.

Single-Vendor Support Ensures Smooth Operations

Streamline your IT service and support process by dealing with a single vendor for the entire stack, including hardware, software and virtualization.

24/7 Single-Call Support

Ensure that a robust global support network delivers remote and on-premises support for your entire solution.



By at least

30%

“By 2020, enterprises will reduce their infrastructure's total cost of ownership (TCO) by at least 30% by implementing new technologies and deployment methods like SDS and HCIS.”

Source: Gartner

Hitachi Unified Compute Platform HC

Product	UCP HC V240	UCP HC V240F	UCP HC V210	UCP HC V210F
Configuration	Hybrid	All-flash	Hybrid	All-flash
Form Factor	Rack optimized server for solutions, 2U 4 node	Rack optimized server for solutions, 2U 4 node	Rack optimized server for solutions, 2U 1 node	Rack optimized server for solutions, 2U 1 node
Processor	1 or 2 Intel Xeon processors E5-2680 v4 (14 core; 3.3GHz; 120W) or 1 or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.9GHz; 30W) or 1 or 2 Intel Xeon processors E5-2620 v4 (8 core; 3GHz; 85W)	2 Intel Xeon processors E5-2680 v4 (14 core; 3.3GHz; 120W) or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.9GHz; 30W) or 2 Intel Xeon processors E5-2650 v3 (10Core; 2.3GHz; 105W)	1 or 2 Intel Xeon processors E5-2699 (22 core; 2.2 GHz; 145W) or 1 or 2 Intel Xeon processors E5-2680 v4 (14 core; 3.3GHz; 120W) or 1 or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.9GHz; 30W) or 1 or 2 Intel Xeon processors E5-2620 v4 (8 core; 3GHz; 85W)	1 or 2 Intel Xeon processors E5 -2699 (22 core; 2.2 GHz; 145W) or 2 Intel Xeon processors E5-2680 v4 (14 core; 3.3GHz; 120W) or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.9GHz; 30W) or 2 Intel Xeon processors E5-2650 v3 (10Core; 2.3GHz; 105W)
Raw Storage (per node)	3.6 - 6.0TB	4 - 19TB	6 - 60TB	4 - 38TB
Estimated Usable Capacity	Up to 3TB	7 - 50TB (RAID-6 with dedupe and compression)	3 - 30TB	7 - 100TB (RAID-6 with dedupe and compression)
Memory	32 - 512GB (32 - 256GB per processor)	128 - 512GB	32 - 384GB per processor, or up to 1.5TB per node	32 - 384GB per processor, or up to 1.5TB per node
Cache	400 or 800GB solid state disk (SSD)	400 or 800GB SSD	Two 800GB or three 400GB SSD	Two 400GB or two 800GB SSD
Network	2 x 10 gigabit Ethernet (GigE) SFP+ or 2-4 10 GigE RJ45 ports	2 x 10 GigE SFP+ or 2-4 10 GigE RJ45 ports	2 x 10 GigE SFP+ or 2-4 10 GigE RJ45 ports	2 x 10 GigE SFP+ or 2-4 10 GigE RJ45 ports
Management Network	One 10 or 100Mb/s BMC port for remote (out-of-band) management per node	One 10 or 100Mb/s BMC port for remote (out-of-band) management per node	One 10 or 100Mb/s BMC port for remote (out-of-band) management per node	One 10 or 100Mb/s BMC port for remote (out-of-band) management per node
Network Switch Support	Customer-supplied switch, such as Cisco Nexus, or any other switch that meets VMware vSAN requirements	Customer-supplied switch, such as Cisco Nexus or any other switch that meets vSAN requirements	Customer-supplied switch, such as Cisco Nexus, or any other switch that meets vSAN requirements	Customer-supplied switch, such as Cisco Nexus or any other switch that meets vSAN requirements
Maximum Node per Cluster	64	64	64	64
Minimum Initial Order	2 node	2 node	1 node. 2 nodes are needed to form a cluster.	1 node. 2 nodes are needed to form a cluster.
Node Increment	1 node	1 node	1 node	1 node
Software	VMware vSphere 6.5, Virtual SAN 6.5 Included: Hitachi Compute Advisor (HCA), Hitachi Data Ingestor VM (Trial) Optional: Hitachi Data Ingestor (HDI), Hitachi Content Platform (HCP), Hitachi Unified Compute Platform Advisor, Hitachi Data Instance Director, VMware Management Packs (separately available)			

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Choose Next-Generation UCP HC Family for Agile, Efficient Hyperconverged Solutions

Hitachi hybrid and all-flash hyperconverged appliances enable modern businesses to introduce digital transformation for faster time to value and improved operational efficiency.

Key Data Points

- Scalable hybrid and all-flash systems.
- Lower TCO with space efficiency.
- Advanced policy-based automation.
- Legendary Hitachi reliability for maximum application uptime.

Hyperconverged solutions with the Hitachi Unified Compute Platform HC family deliver reliable systems for business-critical applications, databases, virtual desktop infrastructure (VDI), DevOps, and remote and branch office (ROBO) deployments.

Visit our [UCP HC webpage](#) to learn how to simplify IT complexity and improve efficiency with a next-generation hyperconverged infrastructure.



Hitachi Vantara At a Glance

Your data is the key to new revenue, better customer experiences and lower costs. With technology and expertise, Hitachi Vantara drives data to meaningful outcomes.

Hitachi Vantara

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