

Hitachi Unified Compute Platform HC family of hybrid and all-flash solutions delivers compute, storage, virtualization and data protection in an agile, scalable and resilient hyperconverged infrastructure.

DATASHEET

Next-Generation Hyperconverged Infrastructure for IT Modernization

IT managers are challenged with growing demands for faster delivery of business services. They face mounting complications and rising costs as they struggle to manage disparate technology resources. Hitachi Unified Compute Platform HC (UCP HC) family of hybrid and all-flash models combines compute, storage and virtualization into a hyperconverged infrastructure appliance to answer these challenges. UCP HC appliances create simple, easy-to-deploy, all-in-one solutions, powered by software-defined storage, VMware vSAN and Hitachi software, to extend the agility and simplicity of the UCP family.

UCP HC family provides a comprehensive dashboard to view virtual machines (VMs). Compute and storage are viewable, with health monitors for CPU, memory, storage and VM usage for entire clusters, individual appliances and individual nodes. Minimal IT experience is required to deploy, configure and manage the UCP HC appliances. As a UCP HC leverages VMware's core products, administrators can apply existing VMware knowledge, best practices and processes.

Pay as You Grow

The UCP HC family simplifies the scale-out process and provides elasticity to closely align the IT infrastructure with dynamic business demands (see Table 1). Start with what you need and scale to keep pace with business growth, without committing massive capital upfront.

Digital
Transformation
With UCP HC
Solutions

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Simplicity Redefined

Deploying and managing UCP HC appliances requires minimal skills and effort, freeing resources for higher business value activities. Single-pane-of-glass management for entire physical and virtual infrastructure enables VM administrators to meet business requirements without requiring specialized manpower. The management software, VMware vCenter, easily discovers new UCP HC appliances and then distributes the configuration to add new appliances with a few mouse clicks. UCP HC appliances rebalance resources and workloads across the cluster, creating a single resource pool. Advanced policy-based management, introduced with vSAN, automates and simplifies storage consumption and management.

Hitachi Unified Compute Platform Advisor provides smart life-cycle management for your compute and network infrastructure, enabling firmware upgrades, centralized remote hardware monitoring, and power management. Use its flexible graphical user interface (GUI) to manage, scale and monitor resources. Plus, centralize management of power, firmware, processors, chassis status, bios settings, Ethernet ports, virtual LAN (vLAN) synchronization management and more.

Reduce IT Costs

The UCP HC family delivers high VM density to support a mix of applications, eliminating storage sprawl. Next-generation data reduction technologies (deduplication, compression, erasure

coding) reduce storage need by up to seven times to boost return on investment (ROI) by leveraging all-flash hyperconverged infrastructure. An advanced policy-based management engine ensures provisioning of the right storage services on the fly, with accurate quality of service (QoS) per VM. UCP HC appliances save operational overhead with a smaller data center footprint, resulting in lower power and cooling expenses.

Eliminate Risk

Building on the Hitachi legacy, UCP HC family delivers a reliable foundation to run your important applications with aggressive recovery point and time objective (RPO and RTO) requirements. UCP HC scale-out cluster tolerates failure, without impacting performance or data accessibility. It provides native and optimized data protection and disaster recovery solutions, to deliver resilient infrastructure for applications with near-zero downtime tolerance. Business applications can be

NEXT-GENERATION HYPERCONVERGED SOLUTIONS

Ensure powerful performance and availability for traditional and cloud-native application deployment. UCP HC solutions deliver a reliable platform for business-critical applications, databases, virtual desktop infrastructure (VDI), DevOps, containers, and remote and branch office (ROBO) deployments, among other use cases.

TABLE 1. HITACHI UNIFIED COMPUTE PLATFORM HC SPECIFICATIONS

Configuration	All-Flash			Hybrid	
Form Factor	Rack optimized server for solutions, 1U 1 node	Rack optimized server for solutions, 2U 1 node	Rack optimized server for solutions, 2U 4 node	Rack optimized server for solutions, 2U 1 node	Rack optimized server for solutions, 2U 4 node
Processor	1 or 2 Intel Xeon Platinum 8160 processors (24 core; 2.1GHz; 145W); 1 or 2 Intel Xeon Gold 6140 processors (18 core; 2.3GHz; 135W)	1 or 2 Intel Xeon processors E5 -2699 (22 core; 2.2GHz; 145W) or 2 Intel Xeon processors E5-2680 v4 (14 core; 2.4GHz; 120W) or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.2GHz; 30W) or 2 Intel Xeon processors E5-2650 v3 (10 Core; 2.3GHz; 105W)	2 Intel Xeon processors E5-2680 v4 (14 core; 2.4GHz; 120W) or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.2GHz; 30W) or 2 Intel Xeon processors E5-2650 v3 (10 Core; 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; 2.4GHz; 120W) or 1 or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.2GHz; 30W) or 1 or 2 Intel Xeon processors E5-2620 v4 (8 core; 2.1GHz; 85W)	1 or 2 Intel Xeon processors E5-2680 v4 (14 core; 2.4GHz; 120W) or 1 or 2 Intel Xeon processors E5-2650 v4 (12 core; 2.2GHz; 30W) or 1 or 2 Intel Xeon processors E5-2620 v4 (8 core; 2.1GHz; 85W)
Raw Storage (per node)	4 - 38TB	4 - 38TB	4 - 19TB	6 - 60TB	3.6 - 6.0TB
Estimated Usable Capacity	7 - 100TB	7 - 100TB (RAID-6 with dedupe and compression)	7 - 50TB (RAID-6 with dedupe and compression)	3 - 30TB	Up to 3TB
Memory	384GB per processor, up to 1.5TB per node	32 - 384GB per processor, or up to 1.5TB per node	128 - 512GB	32 - 384GB per processor, or up to 1.5TB per node	32 - 512GB (32 - 256GB per processor)
Cache	800GB - 1.6TB NVMe solid state disk (SSD)	Two 400GB or two 800GB SSD	400 or 800GB SSD	Two 800GB or three 400GB SSD	400 or 800GB SSD
Network	4 x 25 gigabit Ethernet (GigE) SFP+, 4 x 10 GigE SFP+, 2 x 25 GigE SFP+, Mix of 2 x10 and 2 x 25 GigE, 4 x10 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	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				
Network Switch Support	Customer supplied switch such as Cisco Nexus or any other switch that meets vSAN requirements				
Maximum Node per Cluster	64	64	64	64	64
Minimum Initial Order	2 node	1 node. 2 nodes are needed to form a cluster.	2 node	1 node. 2 nodes are needed to form a cluster.	2 node
Node Increment	1 node	1 node	1 node	1 node	1 node
Software	VMware vSphere 6.5, Virtual SAN 6.5				
	<ul style="list-style-type: none"> ■ Included: Hitachi Unified Compute Platform Advisor, Hitachi Data Ingestor VM (Trial) ■ Optional: Hitachi Data Ingestor (HDI), Hitachi Content Platform (HCP), Hitachi Data Instance Director, VMware Management Packs (separately available) 				

protected in remote data centers with rapid recoverability, to minimize the impact of site failure with five-minute RPO using VMware vSphere host-based replication. Hitachi's reliable one-stop support for the entire appliance provides a zero worry experience for customers.

The UCP HC appliance is sized to run

approximately 120 average-sized, general-purpose, data center VMs or 250 virtual desktops with no restrictions on application type.

Summary

Hitachi Unified Compute Platform HC family expands the UCP family of converged

solutions with a hyperconverged appliance, designed for rapid deployment and easy scalability, while lowering capital and operational expenses. Hitachi hyperconverged solutions deliver a reliable platform for enterprise and midmarket environments.

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