

Create simple, easy-to-deploy, all-in-one solutions with Hitachi Unified Compute Platform HC (UCP HC) family of hybrid and all-flash models. UCP HC combines compute, storage and virtualization into a hyperconverged infrastructure appliance.

DATASHEET

Modernize Your Data Center With Smart Hyperconverged Infrastructure

Next-Generation Hyperconverged Solutions

Hitachi Unified Compute Platform HC (UCP HC) offers a scalable, simple and reliable hyperconverged platform to modernize data center and edge computing. The UCP HC family meets collective needs of business applications, databases, analytics, virtual desktops, remote and branch office (ROBO) and cloud hosting solutions. It offers industry-leading policy-based management and data protection solutions to help organizations deliver agile and efficient IT services to meet strategic goals.

The UCP HC family simplifies the scale-out process and provides elasticity to closely align the IT infrastructure with dynamic business demands. Start with what you need and scale to keep pace with business growth.

Agile

- Accelerate time to production.
- Deliver excellent performance with industry-leading software-defined storage embedded in VMware vSphere hypervisor kernel.
- Automate your operations with policies to accelerate service provisioning.
- Eliminate performance bottlenecks with all-NVMe flash storage.
- Accelerate your high-performance processing applications with next-generation graphics processing unit (GPU) enabled UCP HC.

- Use this unified platform to support all your enterprise apps with virtual machine (VM) specificity.

Resilient

- Continuing legendary Hitachi reliability, UCP HC delivers a robust foundation to run your important applications with aggressive recovery point and recovery time objective (RPO and RTO) requirements.
- UCP HC scale-out cluster is designed to tolerate 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 protected in a remote data center with rapid recoverability. Minimize the impact of site failure with five-minute RPO using vSphere host-based replication.
- Support smart file services with Hitachi Content Platform object storage.
- Hitachi Data Instance Director helps plan and control data copies for backup, recovery and archival purposes.
- [Hitachi Unified Compute Platform Advisor](#) (UCP Advisor) provides deep visibility into your physical and virtual stack and allows firmware upgrades in a nondisruptive manner. UCP Advisor's built-in Hi-Track Remote Monitoring software proactively monitors for potential issues and resolves them, before they impact operations.

- Hitachi's reliable one-stop support for the entire appliance provides a zero-worry experience to organizations using UCP HP.

Cost Efficient

- UCP HC leverages x86 CPU and inexpensive storage, integrated with VMware vSphere and vSAN to reduce the total cost of ownership.
- It delivers high VM density to support a mix of applications, eliminating the need for storage sprawl. Modern 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.
- Its advanced policy-based management engine ensures provisioning of the right storage services on the fly, with accurate quality of service (QoS) per VM.
- Organizations can manage UCP HC and traditional external storage systems with a common management framework, extending the life of legacy storage.

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Customer
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TABLE 1. HITACHI UNIFIED COMPUTE PLATFORM HC FAMILY SPECIFICATIONS

Product	UCP HC V124N	UCP HC V225G	UCP HC V220F	UCP HC V120F	UCP HC V120	UCP HC V220
Configuration	All-NVMe Flash	All-flash, general purpose (GP) GPU-enabled	All-flash	All-flash	Hybrid	Hybrid
Form Factor	1 unit (U), 1 node	2U, 1 node	2U, 1 node	1U, 1 node	1U, 1 node	2U, 1 node
Processor	Intel Xeon Platinum 8176M [28 core (C), 2.1GHz, 165W] or Intel Xeon Platinum 8160 CPU (24C, 2.1GHz, 145W) or Intel Xeon Gold 6140 CPU (18C, 2.3GHz, 135W)	Intel Xeon Platinum 8176M (28C, 2.1GHz, 165W) or Intel Xeon Platinum 8168 Processor (24C, 2.7GHz, 205W) or Intel Xeon Gold 6154 Processor (18C, 3.0GHz, 200W) or One or four GP GPU Nvidia Tesla M10 or Nvidia Tesla P40	Intel Xeon Platinum 8176M (28C, 2.1GHz, 165W) or Intel Xeon Platinum 8168 Processor (24C, 2.7GHz, 205W) or Intel Xeon Gold 6154 Processor (1C, 3.0GHz, 200W)	Intel Xeon Platinum 8176M (28C, 2.1GHz, 165W) or Intel Xeon Platinum 8160 CPU (24C, 2.1GHz, 145W) or Intel Xeon Gold 6140 CPU (18C, 2.3GHz, 135W) or Intel Xeon Silver 4110 Processor (8C, 2.1GHz, 85 W)	Intel Xeon Platinum 8176M (28C, 2.1GHz, 165W) or Intel Xeon Platinum 8160 CPU (24C, 2.1GHz, 145W) or Intel Xeon Gold 6140 CPU (18C, 2.3GHz, 135W) or Intel Xeon Silver 4110 Processor (8C, 2.1GHz, 85 W)	Intel Xeon Platinum 8176M (28C, 2.1GHz, 165W) or Intel Xeon Gold 6140 CPU (18C, 2.3GHz, 135W) or Intel Xeon Silver 4110 CPU (8C, 2.1GHz, 85W)
Raw Storage, per Node	3-80TB	4-47TB	2-193TB	4-77TB	2-18TB	12-64TB
Estimated Usable Capacity	5-210TB	6-124TB	204-328TB	7-200TB	1-9TB	6-32TB
Memory , per node	Up to 3.0TB	Up to 1.5TB	Up to 3.0TB	Up to 3.0TB	Up to 3.0TB	Up to 3.0TB
Cache	Cache P4600 drive (1.6TB) or P4800X (Optane) 375 or 750GB	1x or 2x Intel S4600 960GB	Up to 8TB cache NVMe SSD P4600 drive or Up to 3.75TB cache P4800X (Optane)	Intel Optane SSD DC P4800X Series (375 or 750GB, 2.5 in., U.2) or 800Gb - 1.6TB NVMe SSD	1-2 x 960GB	480GB SATA SSD (1x to 4x) or 960GB SATA SSD (1x to 4x)
Network	4 x 10GigE SFP+ or RJ45 port; 2 x 25GigE SFP28 port 2 x 100/50/40/25 GigE port Mellanox Connect X5 EN dual port	Intel X527 10G SFP+ dual or quad-port OCP PHY mezzanine 5Gbe ConnectX-4 LX EN dual port 2 x 100/50/40/25 GigE port Mellanox Connect X5 EN dual port	4 x 25GigE SFP+, 4 x 10GigE SFP+, 2 x 25GigE SFP+, Mix of 4 x 10 and 2 x 25GigE, 4 x 10GigE RJ45 port 2 x 100/50/40/25 GigE port Mellanox Connect X5 EN dual port	4 x 25GigE SFP+, 4 x 10GigE SFP+, 2 x 25GigE SFP+, 2 x 10GigE SFP+, Mix of 2 x 10 and 2 x 25GigE, 4 x 10GigE RJ45 port 2 x 100/50/40/25 GigE port Mellanox Connect X5 EN dual port	4 x 25GigE SFP+, 4 x 10GigE SFP+, 2 x 25GigE SFP+, Mix of 4 x 10 and 2 x 25GigE, 4 x 10GigE RJ45 port 2 x 100/50/40/25 GigE port Mellanox Connect X5 EN dual port	2 x 10GigE SFP+ or 2-4 x 10GigE RJ45 port 2 x 100/50/40/25 GigE port Mellanox Connect X5 EN dual port
Management Network	One 1Gb/s BMC port	One 1Gb/s BMC port	One 1Gb/s BMC port	One 1Gb/s BMC port	One 1Gb/s BMC port	One 1Gb/s BMC port
Network Switch Support	Customer-supplied switch such as Arista, 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	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 Nodes per Cluster	64	64	64	64	64	64
Maximum Nodes Manageable per VMware vCenter	2,000	2,000	2,000	2,000	2,000	2,000
Minimum Initial Order	2 node	2 node	2 node	2 node	2 node	2 node
Node Increment	1 node	1 node	1 node	1 node	1 node	1 node

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