

Achieve business agility and simplicity with your hybrid cloud: Choose the rack-scale Hitachi Unified Compute Platform RS, powered by VMware Cloud Foundation, to deliver your software-defined data center (SDDC) cloud.

**DATASHEET**

## Hitachi Unified Compute Platform RS Accelerates Innovation With Simple, Scalable SDDC Hybrid-Cloud Infrastructure

### Hybrid Cloud, Simplified

To simplify your hybrid cloud journey, Hitachi Unified Compute Platform RS (UCP RS) series provides a turnkey solution that reduces total cost of ownership (TCO) and improves security. The SDDC solution accelerates the time to market with a natively integrated cloud infrastructure stack that comes prepackaged with management software, to provide automated, policy-based IT operations (see Figure 1).

### Key Benefits

#### Faster Time to Production

- Turnkey delivery of pre-integrated, prevalidated SDDC.
- Automation that deploys an entire cloud infrastructure in hours, not weeks or months.
- Rapid, repeatable application deployment.

#### Flexibility and Scale

- Connect external storage systems with optional Fibre Channel host bus adapter (HBA) support on per-node basis.
- Move your workload across data centers to meet changing business needs.
- Manage your applications across private and public cloud from a common toolset.
- Scale without increasing IT head count.
- Employ heterogeneous server configurations in a rack with variable processor, memory, storage capacity and storage type.

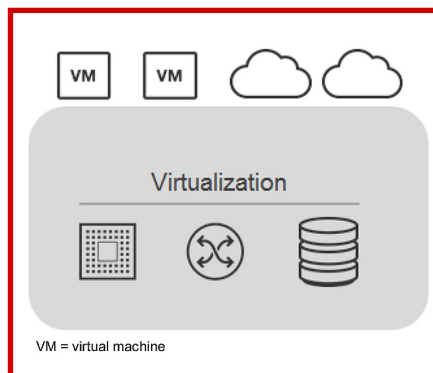


Figure 1. UCP RS automates operations.

### Intelligent Operations

- Do more with fewer resources.
- Automate your data center with policies.
- Optimize resource use with rich analytics.

### Secure Cloud Platform

- Hypervisor-embedded firewall for enhanced security.
- Granular security to prevent east-west breach.
- Security policies that align with workload, regardless of physical location.
- Integrated data protection with SDDC manager.

For more information, view our specification tables on the next page and visit [hitachivantara.com/UCPRS](http://hitachivantara.com/UCPRS).

### UCP RS FEATURES

- Rack-scale hyperconverged infrastructure.
- Turnkey delivery of SDDC.
- Flexible policy-based management capabilities with external storage.
- Natively integrated SDDC components, cloud management and automation software.
- Easy scalability up to 256 nodes across eight racks.
- Enterprise security with NSX microsegmentation.
- Multitenancy-enabled via workload domains.
- Automated life-cycle management of entire cloud infrastructure.
- Run apps anywhere, at any scale.
- Workload mobility across private and public cloud.

### SOFTWARE REQUIREMENTS

<b>VMware</b>	Cloud Foundation 3.8 or higher, vCenter Server 6.7 U2, vSphere 6.7 EP 07 U2, vSAN 6.7, SDDC Manager 3.8, NSX 6.4.5, vRealize Log Insight 4.8 (Optional software: vRealize Automation 7.6, vRealize Operations 7.5, Horizon 7.7)
<b>Hitachi</b>	Unified Compute Platform Advisor v3.0 or higher (Optional software: Data Instance Director, Management Packs for VMware)

## CONFIGURATIONS

Modes (Min., Max.)	4,256
Rack-Scale	1-8 racks
Node-Scale Increment	1
Node	UCP HC V120 (1U form factor), UCP HC V220 series (2U form factor), UCP RS V225G (2U form factor)
Management Switch	Cisco Nexus 3048TP
Network Switch	Cisco Nexus 93180YC-EX (or Cisco N9K-C9336C-FX2 for 40/50/100Gb/s TOR support)
Network Inter-Rack Switch	Cisco Nexus 93180LC-EX (or Cisco N9K-C9336C-FX2 if combined with Cisco N9K-C9336C-FX2 also as TOR switches)
Management Software	VMware SDDC Manager, Hitachi Unified Compute Platform Advisor
Server Virtualization	VMware vSphere
Network Virtualization	VMware NSX (SDN)
Storage Virtualization	VMware vSAN

## NODE SPECIFICATION

Product	UCP HC V120F	UCP HC V120	UCP HC V220F	UCP HC V225G
Configuration	All-Flash	Hybrid	All-Flash	All-Flash with GPU acceleration
Form Factor	1U, 1 Node	1U, 1 Node	2U, 1 Node	2U, 1 Node
Processor	2x  Intel Xeon Platinum 8276 or 8276M CPUs (28C, 2.2GHz, 165W); or Intel Xeon Gold 6240 CPUs (18C, 2.6GHz, 150W); or Intel Xeon Silver 4210 CPUs (10C, 2.2GHz, 85 W)	1x or 2x  Intel Xeon Platinum 8276 or 8276M CPUs (28C, 2.2GHz, 165W); or Intel Xeon Gold 6240 CPUs (18C, 2.6GHz, 150W); or Intel Xeon Silver 4210 CPUs (10C, 2.2GHz, 85 W)	2x  Intel Xeon Platinum 8276 or 8276M CPUs (28C, 2.2GHz, 165W); or Intel Xeon Platinum 8268 CPUs (24C, 2.9GHz, 205W); or Intel Xeon Gold 6254 CPUs (18C, 3.1GHz, 200W)	2x  Intel Xeon Platinum 8276 or 8276M CPUs (28C, 2.2GHz, 165W); or Intel Xeon Platinum 8268 CPUs (24C, 2.9GHz, 205W); or Intel Xeon Gold 6254 CPUs (18C, 3.1GHz, 200W)  Plus, general-purpose GPUs: Nvidia Tesla M10 (up to three); or Nvidia Tesla M60 (up to four) or Nvidia Tesla P40 (up to four) or Nvidia Tesla V100 (up to four)
Raw Storage (per node)	2-38TB	2.4-18TB	2-193TB	4-23TB
Estimated Usable Capacity	6-100TB	1.2-9TB	204-328TB	6-61TB
Memory	256GB-1.5TB per node	Up to 3TB per node	Up to 3TB per node	Up to 1.5TB
Cache	1.6-6.4TB NVMe SSD Pool	1-2 x 960GB	Up to 8TB high-performance cache using Intel NVMe SSD P4610 drives, or up to 3.75TB ultra-high-performance cache using Intel NVMe P4800X (Optane)	1-2 x 960GB
Network	Intel X527 4x 10GigE SFP+ or RJ45 ports; or Mellanox ConnectX-4 EN 2x 25GigE SFP28 ports; or Mellanox ConnectX-5 EN 2x 100/50/40/25 GigE QSFP28 ports	Intel X527 4 x10GigE SFP+ or RJ45 ports; or Mellanox ConnectX-4 EN 2x 25GigE SFP28 ports; or Mellanox ConnectX-5 EN 2x 100/50/40/25 GigE QSFP28 ports	Intel X527 4x 10GigE SFP+ or RJ45 ports; or Mellanox ConnectX-4 EN 2x 25GigE SFP28 ports; or Mellanox ConnectX-5 EN 2x 100/50/40/25 GigE QSFP28 ports	Intel X527 4x 10GigE SFP+ or RJ45 ports; or Mellanox ConnectX-4 EN 2x 25GigE SFP28 port; or Mellanox ConnectX-5 EN 2x 100/50/40/25 GigE QSFP28 ports
Management Network	1 Gb/s BMC port	1 Gb/s BMC port	1 Gb/s BMC port	1 Gb/s BMC port

SSD = solid state disk, SATA = serial ATA

## Hitachi Vantara



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