

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.

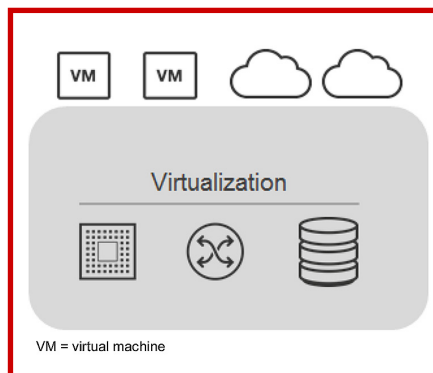


Figure 1. UCP RS automates operations.

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.

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

VMware	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)
Hitachi	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



Corporate Headquarters
2535 Augustine Drive
Santa Clara, CA 95054 USA
hitachivantara.com | community.hitachivantara.com

Contact Information
USA: 1-800-446-0744
Global: 1-858-547-4526
hitachivantara.com/contact

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