

SOLUTION PROFILE

Increase Flexibility and Agility With a Seamless Hybrid Cloud

Hitachi Unified Compute Platform for Microsoft Azure Stack HCI



Edge-Core-Cloud Extensibility

Effortlessly and reliably run edge workloads on Hitachi UCP and manage your hybrid cloud with Azure Arc



Effective Hybrid Cloud

Run VM and SQL based apps, VDI, Kubernetes Clusters with AKS and Azure Services on premises with cloud-based efficiency



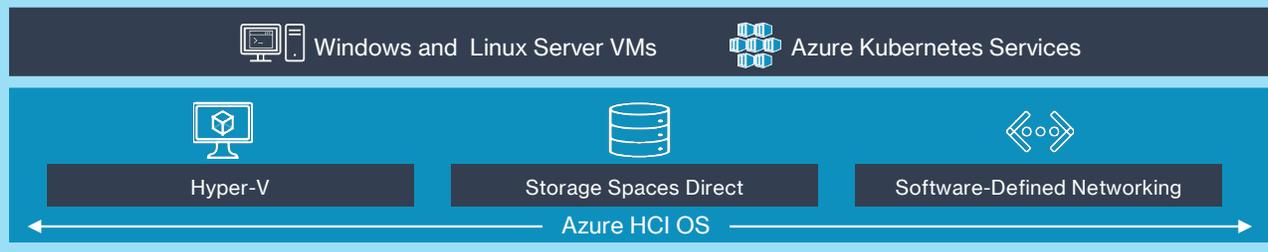
Reliable Branch/Edge Processing

Run your critical edge applications on Hitachi UCP for Azure Stack HCI with enterprise grade security and scalability

Hitachi UCP with Hitachi Advanced Server HA810 G2/HA820 G2 and G3 validated nodes for Azure Stack HCI provides a comprehensive HCI solution for deploying and managing SQL, virtualized and containerized workloads in Azure hybrid cloud service.



Azure Stack HCI Solution



Hitachi's validated nodes for Azure Stack HCI

Hitachi Advanced Server HA810 G2 and HA820 G2 validated nodes for Azure Stack HCI are rackmount servers supporting Intel® Xeon® Scalable Processor with high resiliency and larger internal storage. HA820 G2 has larger internal storage.



1U Server: HA810 G2



2U Server: HA820 G2

Solution Overview

Hitachi Advanced Server HA810/HA820 G2 and G3 validated nodes for Azure Stack HCI, combined with Azure Arc integration, provide a powerful, scalable and secure hybrid cloud solution for businesses of all sizes. This comprehensive solution enables organizations to modernize their data center infrastructure, streamline hybrid cloud management, and maximize the efficiency of their IT resources. Below are the solution components:

Unified Compute Platform

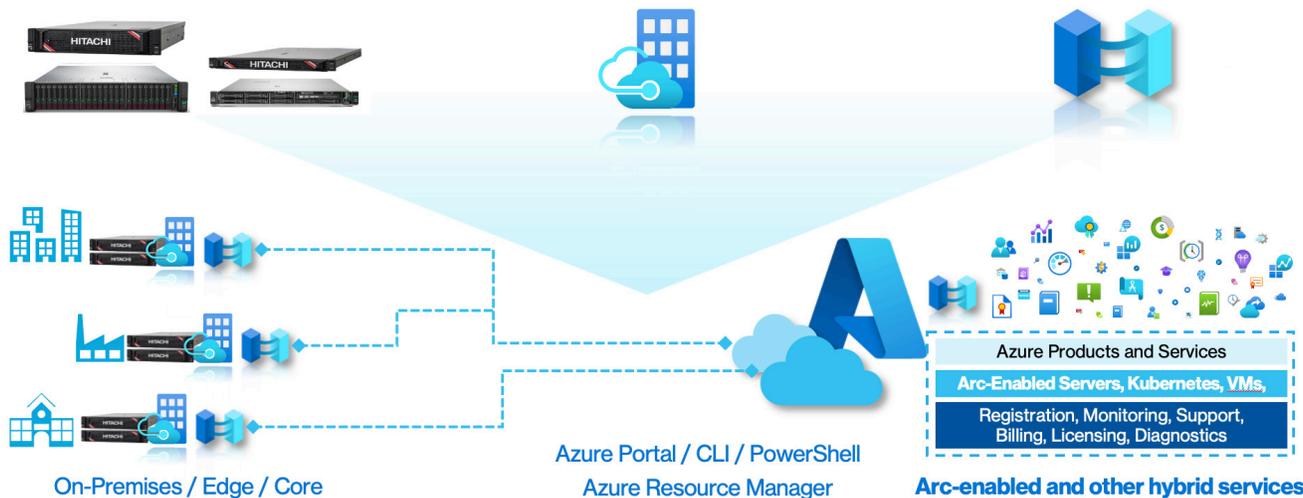
UCP HA810/HA820 G2 and G3 validated nodes for Azure Stack HCI provide a high-performance, reliable foundation for organizations seeking to upgrade their on-premises infrastructure. Built on industry-leading hardware, Hitachi advanced servers deliver robust compute power and storage capacity tailored to modern workloads.

Azure Stack HCI

As Microsoft's hyper-converged infrastructure solution, Azure Stack HCI enables businesses to run virtualized applications on-premises while seamlessly integrating with Azure for cloud services. This hybrid cloud platform simplifies management and deployment, ensuring data security and compliance across diverse environments.

Azure Arc

Azure Arc extends Azure's management capabilities to resources running on-premises, at the edge, or in multi-cloud environments. With Azure Arc, businesses can monitor, manage, and apply consistent policies across their entire hybrid infrastructure, reducing operational complexity and ensuring a unified governance model.



Unify Your Clouds. Azure Arc and Hitachi UCP for Azure Stack HCI: One Control Plane, Boundless Possibilities.

Reliable Branch Office Modernization:

Leverage Hitachi UCP, optional networking, GPUs and Arc-enabled services for agile, scalable Reliable Azure Stack HCI deployments.

Hybrid Application Development:

Accelerate app lifecycle management in Azure and deploy those apps with Azure Arc on the edge footprint with Hitachi UCP

High Performance Edge Computing:

Harness Hitachi UCP and Azure Arc for real-time data processing and performant SQL databases with portal management.

Disaster Recovery and Business Continuity:

Integrate Hitachi UCP with Azure Site Recovery, Backup, and Arc for robust recovery strategies.

Intelligent Resource Scaling:

Utilize Azure Arc for data-driven decisions with scaling and optimization across on-prem and edge Hitachi UCP nodes.

Extend with Hitachi edge portfolio:

Leverage Hitachi's broad range of additional portfolio offerings including software defined object storage for edge

Streamlined Policy Enforcement:

Utilize Azure Arc for consistent security and compliance policies across Hitachi UCP hosted apps, VMs and containers services

In-Depth Monitoring and Insights:

Leverage Azure Arc's centralized monitoring for performance insights on Hitachi UCP deployments.

Cloud-Native Workload Support:

Run cloud-native applications with Azure Kubernetes Services (AKS) on Hitachi UCP and extend Azure services with Azure Arc.

Unify hybrid and multi-cloud IT operations with Hitachi and Azure

Hitachi Advanced Server HA810 G3



Model	All-flash SAS	NVMe
Form factor	1U	
Processor	4th Generation Intel® Xeon® Scalable Processors	
Number of cores	16 cores or more up to 120 cores	
Memory *	128 GiB or more up to 8TiB	
GPU Support	NVIDIA A2	
Storage Capacity	SDD 1.6TB or more up to 64TB	NVMe 1.6TB or more up to 64TB
Network adapter	100Gb network adapter	

Hitachi Advanced Server HA820 G3



Model	All-flash SAS	NVMe
Form factor	2U	
Processor	4th Generation Intel® Xeon® Scalable Processors	
Number of cores	16 cores or more up to 120 cores	
Memory *	64 GiB or more up to 8TiB	
GPU Support	NVIDIA (A16, A100)	
Storage Capacity	SDD 1.6TB or more up to 102.4TB	NVMe 1.6TB or more up to 102.4TB
Network adapter	100Gb network adapter	

Hitachi Advanced Server HA810 G2



Model	All-flash configuration (SAS SSD)	All-flash configuration (NVMe/SAS SSD)	Hybrid configuration (NVMe/SAS HDD)	Hybrid configuration (SAS SSD/SAS HDD)
Form factor	1U			
Processor	3rd Generation Intel® Xeon® Scalable Processors			
Number of cores	4 cores or more up to 40 cores × 1 or 2 sockets			
Memory *	64 GiB or more up to 8TiB			
GPU Support	Up to 2 x Nvidia T4			
Storage	Cache	none	NVMe 800GB or more × 2 or more	NVMe 800GB or more × 2 or more
	Capacity	SAS SSD 800GB or more × 4 or more	SAS SSD 800GB or more × 4 or more	SAS HDD 900GB or more × 4 or more
Network adapter	10/25/100Gb network adapter		10/25Gb network adapter	

Hitachi Advanced Server HA820 G2



Model	All-flash configuration (NVMe SSD)	All-flash configuration (SAS SSD)	Hybrid configuration (NVMe/SAS SSD)	Hybrid configuration (NVMe/SAS HDD)	Hybrid configuration (SAS SSD/SAS HDD)
Form factor	2U				
Processor	3rd Generation Intel® Xeon® Scalable Processors				
Number of cores	4 cores or more up to 40 cores × 1 or 2 sockets				
Memory *	64 GiB or more up to 8TiB				
GPU Support	NVIDIA (A40, A100, T4)				
Storage	Cache	none	none	NVMe 800GB or more × 2 or more	NVMe 1.6TB or more × 2 or more
	Capacity	NVMe 800GB or more × 4 or more	SAS SSD 800GB or more × 4 or more	SAS SSD 800GB or more × 4 or more	SAS HDD 1.2TB or more × 4 or more
Network adapter	10/25/100Gb network adapter		10/25Gb network adapter		

Solution Key Benefits

- Performance Excellence: Deliver high-performance, optimized Azure Stack HCI with Hitachi Vantara's nodes.
- Hybrid Cloud Simplification: Streamline management and operations with seamless Azure integration.
- Future-Ready Scalability: Adapt easily to evolving business requirements.
- Robust Security: Protect data across locations with comprehensive measures.
- Accelerated Innovation: Foster innovation using on-demand Azure application services.
- Legacy App Consolidation: Efficiently run and maintain legacy apps on Azure Stack HCI.
- Resilient Scalability: Expand capacity and ensure fault tolerance with Azure Stack HCI

ABOUT HITACHI VANTARA

Hitachi Vantara, a wholly-owned subsidiary of Hitachi Ltd., delivers the intelligent data platforms, infrastructure systems, and digital expertise that supports more than 80% of the Fortune 100. To learn how Hitachi Vantara turns businesses from data-rich to data-driven through agile digital processes, products, and experiences, visit hitachivantara.com.



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Let us help you modernize and futureproof your hybrid multi-cloud infrastructure.

