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.

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**Azure Stack HCI Solution**

- **Windows and Linux Server VMs**
- **Azure Kubernetes Services**
- **Hyper-V**
- **Storage Spaces Direct**
- **Software-Defined Networking**

**Azure HCI OS**

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**Hitachi’s validated nodes for Azure Stack HCI**

- **1U Server: HA810 G2**
- **2U Server: HA820 G2**

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.
SOLUTION PROFILE

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

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 Portal / CLI / PowerShell

Azure Resource Manager

On-Premises / Edge / Core

Azure Products and Services

Arc-Enabled Servers, Kubernetes, VMs,
Registration, Monitoring, Support, Billing, Licensing, Diagnostics

Arc-enabled and other hybrid services
Unify hybrid and multi-cloud IT operations with Hitachi and Azure

### Solution Key Benefits
- **Hybrid Cloud Simplification**: Streamline management and operations with seamless Azure integration.
- **Performance Excellence**: Deliver high-performance, optimized Azure Stack HCI with Hitachi Vantara’s nodes.
- **Future-Ready Scalability**: Adapt easily to evolving business requirements.
- **Resilient Scalability**: Expand capacity and ensure fault tolerance with Azure Stack HCI.
- **Accelerated Innovation**: Foster innovation using on-demand Azure application services.
- **Robust Security**: Protect data across locations with comprehensive measures.

### Model Specifications

#### Hitachi Advanced Server HA810 G3

<table>
<thead>
<tr>
<th>Model</th>
<th>All-flash SAS</th>
<th>NVMe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form factor</td>
<td>1U</td>
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</tr>
<tr>
<td>Processor</td>
<td>4th Generation Intel Xeon Scalable Processors</td>
<td></td>
</tr>
<tr>
<td>Number of cores</td>
<td>16 cores or more up to 120 cores</td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>128 GiB or more up to 8TiB</td>
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</tr>
<tr>
<td>GPU Support</td>
<td>NVIDIA A2</td>
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</tr>
<tr>
<td>Storage Capacity</td>
<td>SDD 1.6TB or more up to 64TB</td>
<td>NVMe 1.6TB or more up to 64TB</td>
</tr>
<tr>
<td>Network adapter</td>
<td>100Gb network adapter</td>
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#### Hitachi Advanced Server HA820 G3

<table>
<thead>
<tr>
<th>Model</th>
<th>All-flash SAS</th>
<th>NVMe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form factor</td>
<td>2U</td>
<td></td>
</tr>
<tr>
<td>Processor</td>
<td>4th Generation Intel Xeon Scalable Processors</td>
<td></td>
</tr>
<tr>
<td>Number of cores</td>
<td>16 cores or more up to 120 cores</td>
<td></td>
</tr>
<tr>
<td>Memory</td>
<td>64 GiB or more up to 8TiB</td>
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</tr>
<tr>
<td>GPU Support</td>
<td>NVIDIA (A16, A100)</td>
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<tr>
<td>Storage Capacity</td>
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<td>NVMe 1.6TB or more up to 102.4TB</td>
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<td>Network adapter</td>
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#### Hitachi Advanced Server HA810 G2

<table>
<thead>
<tr>
<th>Model</th>
<th>All-flash configuration (SAS SSD)</th>
<th>All-flash configuration (NVMe/SAS SSD)</th>
<th>Hybrid configuration (NVMe/SAS HDD)</th>
<th>Hybrid configuration (SAS SSD/SAS HDD)</th>
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<tbody>
<tr>
<td>Form factor</td>
<td>3rd Generation Intel Xeon Scalable Processors</td>
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<tr>
<td>Processor</td>
<td>Up to 2 x Nvidia T4</td>
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<tr>
<td>Number of cores</td>
<td>4 cores or more up to 40 cores × 1 or 2 sockets</td>
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<td></td>
<td></td>
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<tr>
<td>Memory</td>
<td>64 GiB or more up to 8TiB</td>
<td></td>
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<tr>
<td>GPU Support</td>
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<tr>
<td>Storage Capacity</td>
<td>SAS SSD 800GB or more × 4 or more</td>
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<tr>
<td>Network adapter</td>
<td>10/25/100Gb network adapter</td>
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<tr>
<td>Processor</td>
<td>NVIDIA (A40, A100, T4)</td>
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<tr>
<td>Number of cores</td>
<td>4 cores or more up to 40 cores × 1 or 2 sockets</td>
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<tr>
<td>Storage Capacity</td>
<td>NVMe 800GB or more × 4 or more</td>
<td>SAS SSD 800GB or more × 4 or more</td>
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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.

Contact Us

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