

Hitachi Unified Compute Platform CI delivers flexibility, reliability and performance with simplified operations designed around data.

## DATASHEET

# Hitachi Unified Compute Platform CI: The Foundation for a Modern Data Center

## Flexibility To Support Any Application at Any Scale

Organizations today face challenges from rapidly changing markets, new technologies and the need to exploit and safeguard ever-increasing amounts of data. IT departments must now deal with new data types from many sources and meet stringent new rules of oversight and compliance. Hitachi Unified Compute Platform CI (UCP CI) series, the foundation for a modern IT infrastructure, meets these challenges. It allows you to simply build a data-driven IT infrastructure that can host any application, at any scale, and at any location.

UCP CI works with Hitachi Unified Compute Platform Advisor (UCP Advisor) software, which provides intelligent unified automation of the management of your server, storage and networking components. As a result, you can monitor and allocate both physical and virtual resources rapidly and efficiently. With UCP CI, you can scale compute, storage and network capacity independently, to optimize the performance of your application and eliminate the cost of overprovisioning. With UCP Advisor, you can manage unified business resource pools across a single or multiple data centers from a single user interface.

## UCP CI Capabilities

### Flexible, Highly Configurable and Available Converged Infrastructure

Today's digital business must be always available, and organizations must rapidly



deploy new business applications despite flat or shrinking budgets. With its prevalent building blocks of compute, storage and networking guaranteed to work together the first time and deliver predictable performance, UCP CI addresses these needs. Its low-risk path to converged infrastructure provides a solution that can be operational, fast. Plus, it is simple to manage, with a single interface to monitor every aspect of the system from one place.

### Key Platform Features

- UCP CI is a highly configurable integrated infrastructure, in which server, network and storage can be scaled independently, to optimize performance and eliminate overprovisioning costs.

- UCP CI provides a flexible infrastructure for running bare metal and virtualized or bare metal only environments. It enables customers to increase application density and run multiple workloads on the same UCP system.
- Enterprise-class hardware components and preconfigured resilient architectures support high availability and reliability.
- Data resilience and scalability are achieved using a choice of storage options, including industry-leading Hitachi Virtual Storage Platform (VSP) all-flash arrays and VMware vSAN storage. This approach gives UCP CI administrators access to a wide range of sophisticated data services, including data protection and disaster recovery options. UCP CI administrators also have the option to leverage their existing storage products.
- Performance and scalability is provided by the Hitachi Advanced Server family. DS120, DS220, DS225 and DS240 rack-optimized models deliver scale-out capability and simplify growth. Enterprise-class DS7000 series servers meet the performance and scale-up needs of demanding business-critical applications.
- Networking is provided by a choice of top-of-rack switches from Cisco, Arista and Broadcom that can flexibly satisfy IP-switching and Fibre Channel needs and customer preferences.
- Hitachi UCP Advisor provides a single management interface to provision services quickly and provide integrated automation and management of both physical hosts and virtual machines,

reducing both deployment and operational costs. The user interface includes native integration with VMware vCenter to simplify operations and speed time to operation.

## Solution Architecture

The UCP CI architecture consists of modular building blocks. Its components scale independently and provide organizations with greater configurability, flexibility and agility. Systems can be configured with a wide range of server options from the Hitachi Advanced Server family. Choose from rackmount systems, such as DS120, which are optimized for scale-out cloud-native architectures. Or, select the enterprise-class DS7000 series systems to provide high performance for business-critical applications and high capacity for in-memory databases, such as SAP HANA.

Modernize  
Your Data  
Center

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TABLE 1. HITACHI UNIFIED COMPUTE PLATFORM CI: INFRASTRUCTURE OVERVIEW\*

<b>Compute</b>	<p>For virtualized environments:</p> <ul style="list-style-type: none"> <li>Up to 128 Hitachi Advanced Server DS120 or DS220 high-density rack-optimized servers. (Up to 16 DS120 servers in a single rack configuration)</li> </ul>
<b>Storage Options</b>	<ul style="list-style-type: none"> <li>Hitachi Virtual Storage Platform (VSP) <ul style="list-style-type: none"> <li>VSP 5000 series</li> <li>VSP F series all-flash arrays: F1500, F900, F800, F700, F600, F400, F370, F350</li> <li>VSP G series hybrid-flash arrays: G1500, G1000, G900, G800, G700, G600, G400, G370, G350</li> </ul> </li> <li>Local node storage, including VMware vSAN</li> <li>Other vendor storage virtualized through VSP family</li> </ul>
<b>Software</b>	<ul style="list-style-type: none"> <li>Hitachi Unified Compute Platform Advisor</li> <li>For VMware vSphere: <ul style="list-style-type: none"> <li>VMware vCenter</li> <li>VMware vSphere</li> </ul> </li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>Cisco Ethernet networking switches</li> <li>Arista Ethernet networking switches</li> <li>Broadcom Fibre Channel SAN switches</li> </ul>

\* Partial list of components

## Hitachi Unified Compute Platform Advisor

UCP CI is managed by UCP Advisor automated management software, which provides complete, secure, end-to-end management and automation for all Hitachi platforms. UCP Advisor enables life-cycle management and application policies for infrastructure across multiple workloads (virtualized, bare metal, containers, mission-critical applications and big data) for faster and easier deployment and streamlined IT modernization. With UCP Advisor, you can:

- Accelerate and simplify deployments of converged infrastructure.
- Automate provisioning, service catalog, custom workflows and API integration for a modern data strategy with ubiquitous data services.
- Reduce risk and increase effectiveness with predefined server provisioning. Use policy-based automation to enable the development and execution of policies, practices and procedures.

## Summary

Hitachi Unified Compute Platform CI enables you to rapidly deploy IT infrastructure for a modern data center. It delivers the enterprise scale, flexibility, performance and resiliency required for workloads, from modern cloud-native applications to legacy mission-critical databases. You gain the foundation you need to manage the increased volume, complexity and regulatory compliance requirements of data that business requires today. This is a foundation that can support the tools you need to extract insights, uncover new efficiencies and exploit new revenue opportunities.

With UCP CI, Hitachi offers a streamlined, integrated and automated platform for enterprise data centers and hybrid-cloud deployments. It improves time to production, makes enterprise-class applications more agile and resilient, and has the flexibility to grow as business needs demand. And, it provides a single source of legendary service and support.

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