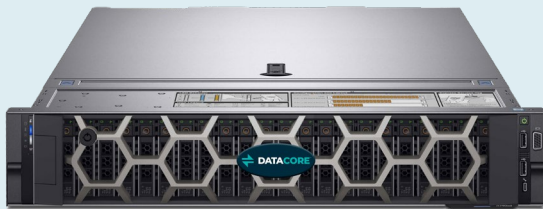# DataCore™ HCI-Flex Appliance

The simplicity of hyperconverged infrastructure with the flexibility of software-defined storage

As customers increasingly adopt HCI for its ease of deployment, reduced complexity, scalability, and simplified approach to moving and assigning virtual resources to workloads, they often overlook its challenges with fixed scaling, creating new silos, and vendor, technology, or architectural lock-in.

The **DataCore HCI-Flex appliance** includes the simplicity of HCI with the ultimate flexibility of software-defined storage (SDS) along with DataCore's deep SDS expertise and award-winning customer service.

- **Unparalleled Flexibility**
  Leverage internal and external storage regardless of vendor or underlying technology

- **Faster Time to Value**
  Accelerate deployment with simple, automated deployment in both ESXi and Hyper-V environments

- **Simplified Management**
  A single-click console is fully integrated with vCenter deployment and ESXi management

- **Performance that Scales**
  Scale up and out up to 64 nodes with minimal performance degradation

- **Cost-Optimized High Availability**
  Achieve true high availability with only 2 nodes using synchronous mirroring

- **Increased Storage Efficiency**
  Optimize diverse IT environments with storage pooling, auto-tiering, and data migration

POWERED BY DATACORE SOFTWARE DEFINED STORAGE

OPTIMIZED PERFORMANCE

Parallel I/O - Process I/O in parallel vs serially for increased application performance up to 10X

Caching - Accelerates disk I/O response and uses CPU cache/RAM as "mega cache"

Random Write Accelerator - Eliminates random write performance penalty and provides SSD-like performance from HDDs

Auto-Tiering - Automatically sets tier assignments based on policies, with support for up to 15 storage tiers

Load Balancing - Auto balances I/Os across devices and bypasses failed/offline channels

Quality of Servise (QOS) - Limits I/O traffic from lower tier workloads and enables critical apps to run faster

ALWAYS-ON AVAILABILITY

Replication & Site Recovery - Bi-directional asynchronous replication for disaster recovery and rapid restoration

Continuous Data Protection - Restore to any point in time without application interruption

Encryption - XTS-AES 256-bit encryption for data-at-rest that is storage-device independent

Synchronous Mirroring – Maintains data in two places eliminating storage as a single point of failure

Snapshots - Recover rapidly at disk speeds while eliminating extended backup windows

INCREASED STORAGE EFFICIENCY

Storage Pooling - Splits tiers based on price/perf/capacity and eliminates stranded disk space

Deduplication/Compression - Replaces duplicates with pointers to single, compressed instances

Data Migration – Clears and reclaims space with zero downtime migrations

Thin Provisioning - Occupies only space being written to and dynamically allocates more space as needed

SANSYMPHONY™ CUSTOMER TESTIMONIAL

DataCore SDS Simplifies Adding New Technologies to your Datacenter

" As we look at new storage technologies the question of how to integrate it with DataCore comes up and it never fails that the answer is to simply add it to the server and then add it to a pool.

— Storage Administrator, Medium Enterprise Insurance Company

Source: Storage Administrator, Medium Enterprise Insurance Company

DATACORE | TechValidate

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DATACORE HCI-FLEX MODELS

Choose the best solution that fits your unique business needs.

MODELS	PROCESSOR SPECS	MEMORY	TOTAL	HDD	SSD	CAP	NIC
HCI-Flex 3, 1U HYBRID	(2) Intel Xeon Silver 4110 2.1G, 8C/16T, 9.6GT/s 2UPI, 11M Cache, Turbo, HT (85W)	4x16GB	64GB	3x2.4TB	2x480GB	5TB	RJ45 or SFP+
HCI-Flex 3, 1U SSD	(2) Intel Xeon Silver 4110 2.1G, 8C/16T, 9.6GT/s 2UPI, 11M Cache, Turbo, HT (85W)	4x16GB	64GB		4x960GB	3TB	RJ45 or SFP+
HCI-Flex 5, 1U HYBRID	(2) Intel Xeon Gold 5118 2.3G, 12C/24T, 10.4GT/s 2UPI, 16.5M Cache, Turbo, HT (105W)	8x16GB	128GB	6x2.4TB	2x480GB	10TB	RJ45 or SFP+
HCI-Flex 5, 1U SSD	(2) Intel Xeon Gold 5118 2.3G, 12C/24T, 10.4GT/s 2UPI, 16.5M Cache, Turbo, HT (105W)	8x16GB	128GB		8x960GB	6TB	RJ45 or SFP+
HCI-Flex 7, 2U HYBRID - 192GB*	(2) Intel Xeon Gold 6152 2.1G, 22C/44T, 10.4GT/s 2UPI, 25M Cache, Turbo, HT (140W)	12x16GB	192GB	11x2.4TB	2x480GB	20TB	RJ45 or SFP+
HCI-Flex 7, 2U HYBRID - 384GB*	(2) Intel Xeon Gold 6152 2.1G, 22C/44T, 10.4GT/s 2UPI, 25M Cache, Turbo, HT (140W)	12x32GB	384GB	11x2.4TB	2x480GB	20TB	RJ45 or SFP+
HCI-Flex 7, 2U SSD - 192GB*	(2) Intel Xeon Gold 6152 2.1G, 22C/44T, 10.4GT/s 2UPI, 25M Cache, Turbo, HT (140W)	12x16GB	192GB		16x960GB	13TB	RJ45 or SFP+
HCI-Flex-7 2U SSD - 384GB*	(2) Intel Xeon Gold 6152 2.1G, 22C/44T, 10.4GT/s 2UPI, 25M Cache, Turbo, HT (140W)	12x32GB	384GB		16x960GB	13TB	RJ45 or SFP+

OPTIONS   **CAP**   *Only HCI-Flex 7 supports Fibre Channel
KIT, HARDDRIVE, (3) 2.4TB HARD DRIVES + SW + 3Yr SUS   5
KIT, HARDDRIVE, (4) 960GB SSDS + SW + 3Yr SUS   3
KIT, MEMORY 64GB
KIT, EIGHT SFP+
HBA, 16GB/S DUAL FIBRE CH,PCI-E 3.0 X8 WITH SFP+

THE AUTHORITY ON SOFTWARE-DEFINED STORAGE

As a pioneer of SDS and storage virtualization, **DataCore holds 22 patents and is trusted by over 10,000 customers worldwide**. With deep industry expertise, continuous innovation and a proven history of modernizing SDS for the software-defined datacenter, DataCore is the Authority on Software-Defined Storage™.

AWARD-WINNING GLOBAL SUPPORT TEAM

Distributed across three major service hubs strategically located in Europe, North America and Asia, the award-winning DataCore Support Centers are staffed 100% with Level 3 Service Engineers. When you contact DataCore Technical Support, the first responder is an experienced professional who owns your issue from inception to resolution regardless of the vendor. DataCore cares about its customers not which vendor's problem it is. We believe world-class support is the backbone of our customer relationships.

ALWAYS ON SUPPORT 24/7 – 365 DAYS	AWARD-WINNING TECHNICAL SUPPORT	CUSTOMER FOCUSED DATACORE cSat 99.6% 2016-2019

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Discover the Ultimate Flexibility of DataCore Software

REQUEST A DEMO

DataCore software-defined & hyperconverged storage solutions reduce costs, eliminate vendor lock-in, and deliver ultimate flexibility in how organizations manage, build and modernize their storage infrastructures.

See why over 10,000 customers recognize DataCore Software as the most flexible software-defined storage platform and visit www.datacore.com.

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