



Next-generation Hyper-Converged Flexibility, Simplicity and Performance

DataCore and Supermicro team up to increase business productivity and reduce infrastructure costs



INTRODUCTION

The Supermicro® hyper-converged appliance, Powered by DataCore™, delivers the performance and VM density companies expect. Record-breaking DataCore Parallel I/O technology unleashes the power of Supermicro's multi-cores to drive industry leading I/O performance and consolidation ratios. The hyper-converged appliance enables companies to scale their applications with the smallest possible footprint in a modern datacenter and remote office.

SIMPLE, POWERFUL & SCALABLE SOLUTIONS FOR BUSINESS CRITICAL APPLICATIONS

Companies need better performance from their key applications in order to meet ever higher SLAs. The Supermicro appliance, Powered by DataCore, delivers a faster and more reliable architecture for these applications.

These hyper-converged appliances provide the following advantages:

- Greater VM density per node
- Highest performance in the industry (>500,000 IOPS/node)
- Industry-best availability & data protection (zero-touch)

The net result is better performance and availability at a lower cost. This represents the highest value for virtualized environments.

LOWEST TCO HYPER-CONVERGED SOLUTION

The Supermicro appliance, Powered by DataCore, is easy to setup, manage & scale for a wide variety of business workloads. The solution provides:




- Fast deployment with the DataCore Advanced Smart-Deployment Wizard
- Best server performance (per-watt, per-square foot and per dollar)
- Scalable architecture enables seamless adaptation to changing business requirements

The DataCore software platform integrates all storage, including hyper-converged, SAN and cloud storage, eliminating storage silos and ensuring future-proof IT investments.

Benefits-at-a-glance:

- CPU from 30 to 88 cores
- Usable capacity from 8TB to 116TB
- High-speed cache from 256GB to 3TB
- Easily scales to 64 nodes but HA requires only 2 nodes
- Synchronous metro mirrors with only 2 nodes
- Scale-out storage capacity with SAN or cloud storage
- Support for all major hypervisors

	Mainstream Hyper-converged Appliance	Remote Office / Branch Office (ROBO) Sites	Hyper-converged Data Center-in-a-Box
Needs	Predictable performance and scalability to support high performance, Tier 1 applications.	Simplify remote infrastructure and centrally manage with enterprise level availability.	Highly available infrastructure is capable of meeting a wide variety of mission-critical workloads such as SAP, Oracle and SQL Server.
Challenges	Current approach to meet performance of latency sensitive applications is expensive and difficult to scale.	Necessary redundancy for high availability at remote sites is too expensive and difficult to set up and manage.	Too many components from multiple suppliers makes it hard to manage, integrate, tune, and troubleshoot.
Solutions	Optimize performance using high speed caching, random write accelerator and auto-tiering; all speed up I/O and decrease latency.	Provide a highly available storage infrastructure with only two servers to reduce TCO and eliminate storage complexity.	Collapse compute, networking and storage into a fully integrated, simpler, compact environment with higher availability and better performance.

DESCRIPTION*	BASE CONFIGURATION (2 NODES)	
<p>Large Enterprise SRS-DCVSEM-0216-01-WT010</p>	<p>Software CPU Memory Storage • Flash • Disk Connectivity Optional Total Rack Space</p>	<p>DataCore Hyper-converged Virtual SAN HS128 4x E5-2699 v4 (88 cores) 1,536 GB (3,072 GB max) 115.6 TB (Mirrored) • 7.6 TB - 4x 3.8 TB SAS SSD, RAID-1 (per node) • 108 TB - 20x 6.0 TB NL-SAS, RAID-5 (per node) 4x 10 Gb ports Supermicro Qlogic Based FC adapter AOC-QLE2672 4U</p> 
<p>Enterprise SRS-DCSVEM-0064-01-WT001</p>	<p>Software CPU Memory Storage • Flash • Disk Connectivity Optional Total Rack Space</p>	<p>DataCore Hyper-converged Virtual SAN HS32 4x E5-2683 v4 (64 cores) 1,024 GB (2,048 GB max) 33.6 TB (Mirrored) • 1.6 TB - 2x 1.6 TB SAS SSD, RAID-1 (per node) • 32 TB - 10x 4.0 TB NL-SAS, RAID-5E parity+Spare (per node) 4x 10 Gb ports Supermicro Qlogic Based FC adapter AOC-QLE2672 4U</p> 
<p>Mid range SRS-DCSVEM-0028-01-WT001</p>	<p>Software CPU Memory Storage • Flash • Disk Connectivity Optional Total Rack Space</p>	<p>DataCore Hyper-converged Virtual SAN HS16 4x E5-2620 v4 (32 cores) 512 GB (2,048 GB max) 14.8 TB (Mirrored) • 0.8 TB - 2x 800 GB SAS SSD, RAID-1 (per node) • 14 TB - 8x 2.0 TB NL-SAS, RAID-5 (per node) 4x 10 Gb ports Supermicro Qlogic Based FC adapter AOC-QLE2672 2U</p> 
<p>Entry SRS-DCSVEM-0016-01-WT001</p>	<p>Software CPU Memory Storage • Flash • Disk Connectivity Optional Total Rack Space</p>	<p>DataCore Hyper-converged Virtual SAN HS8 4x E5-2620 v4 (32 cores) 256 GB (2,048 GB max) 8.4 TB (Mirrored) • 0.4 TB - 2x 400 GB SAS SSD, RAID-1 (per node) • 8 TB - 5x 2.0 TB NL-SAS, RAID-5 (per node) 4x 10 Gb ports Supermicro Qlogic Based FC adapter AOC-QLE2672 2U</p> 

* Each SKU includes a bundle of 2 nodes.

The Supermicro hyper-converged appliance, Powered by DataCore, is available through resellers and Lifeboat Distribution.

To learn more about our solution or for additional information, please email supermicro@datacore.com