S2D-3212 Hyper-Converged Cluster Appliance

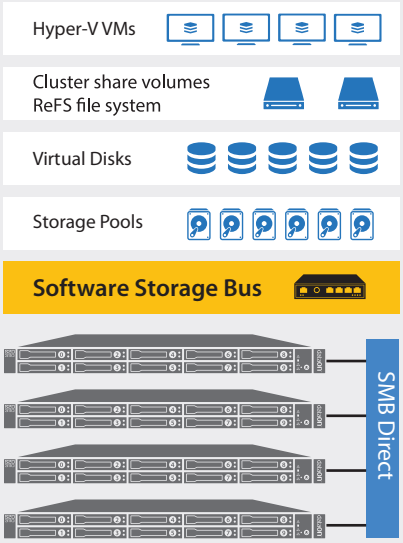
Windows Server 2016 Storage Spaces Direct

Windows Server 2016 Certified

Highlights:

- Performance – Utilizes all-flash NVMe SSDs to achieve over 1.5M IOPS in a 4-node cluster
- Supports More VMs – Supports 40+ Hyper-V VMs per nodes, with up to 16 nodes per cluster
- Highly Scalable – Delivers compute, networking and storage resources with near-linear scalability
- Easy to Deploy – Simple out-of-the-box installation
- Easy to Manage – DataON's exclusive MUST software is pre-installed for infrastructure visibility and management

Hyper-Converged Storage & compute with **Storage Spaces Direct**



DataON S2D-3000 Family of Hyper-Converged and Converged Cluster Appliances

DataON S2D-3000 hyper-converged and converged cluster appliances leverage DataON's ClusterBlock Architecture™ (CBA) to deliver scale-out and scale-up infrastructure and management services for deploying Microsoft Windows Server 2016.

They incorporate the core software-defined services of compute, networking, and storage, that are specified by Microsoft for Storage Spaces Direct and their next generation of software-defined data centers (SDDC).

S2D-3000 HCCAs are certified by Microsoft to seamlessly deploy with Microsoft Windows Server 2016. They are designed on three core principles of scale-out hyper-converged cluster, integrated software-defined services and complete visibility and management of the storage infrastructure through our exclusive MUST™ (Management Utility Software Tool) software tool.

The DataON S2D-3000 family provides both performance-optimized and capacity-focused appliances to meet the needs of Microsoft Windows services and enterprise applications.

DataON S2D-3212 – Optimized for Performance, Density, and Capacity with Windows Server 2016 Storage Spaces Direct

The DataON S2D-3212 is built to optimize the full stack of Microsoft Storage Spaces Direct in a hyper-converged platform.

Optimized for performance, density, and capacity, this hybrid SSD/HDD solution can achieve over 1.5M IOPS in a 4-node cluster. It combines high-performance NVMe SSDs with SMB 3.0 networking to maximize performance and capacity. This appliance also runs on the Cluster Shared Volumes Resilient File System (ReFS) to maximize data availability, deliver high resiliency, and improve data integrity across scale-out file servers (SoFS) and software storage bus to storage and networking hardware.

- **Preconfigured 4-node HCCA Clusters –** Provides expanded capacity with scalable and operational flexibility.
- **Industry-Leading Application Performance –** Provides over 1.5M IOPS (running VM Fleet) using the latest all-flash Intel NVMe SSD technology to scale IOPS intensive workloads.
- **Hyper-V virtualization hosting –** Each HCCA can support more than 40 Hyper-V virtual machines per node, with up to 16 nodes per cluster.
- **Storage and networking with SMB 3.0 over RDMA –** Increases CPU efficiency while delivering the highest throughput and lowest latency.
- **Hyper-converged scalability –** Delivers incremental compute, networking, and storage resources while providing near-linear scalability. HCCA storage can also be expanded via 12GB/s SAS JBODs.
- **Automated out-of-the-box deployment –** Accelerates time to deployment for Windows Server 2016, Storage Spaces Direct, and Storage Replica environments.
- **Integrated data protection and guarded fabric –** Supports Windows Server 2016 with Shielded VM and TPM 2.0 trusted attestation for security and business continuity.
- **Built for Microsoft services and I/O intensive applications –** Ideal for VDI, SQL Server, Dynamics ERP, and business intelligence deployments.

Appliance Node	S2D-3212 HCCA
Form Factor	2U 1-Node
Processor	(2) Intel® Xeon® E5-2600v4 family, max. TDP 145W up to 22 cores
Chipset	Intel® C610
Memory	256GB -1536GB
Storage Drive	(12) 3.5" hot-plug HDD/SSD drives
Expansion Slot	(2) NVMe cache tier & (12) performance and capacity tier
	(3) PCIe 3.0 x8; (1) PCIe x16 & (2) PCIe 3.0 x8 mezzanine
Onboard Network	2x Intel I350 GbE
Power & Cooling	(1+1) 1100W High-efficiency redundant hot-plug power supplies
TPM	TPM 2.0
Microsoft Software	Hyper-Converged Premium, Hyper-Converged Standard, and S2D Storage
Defined Offering	Hybrid
Management	DataON MUST

Features:

- **Dashboard level metrics** through a single pane of glass.
- **System alerts & automated e-mail notifications** for hardware failures, configuration issues and resource saturation.
- **Mobile-friendly user interface** allows you to monitor your Windows Storage deployments when you're out of the office.
- **Pre-configured with DataON S2D solutions** at no extra charge.

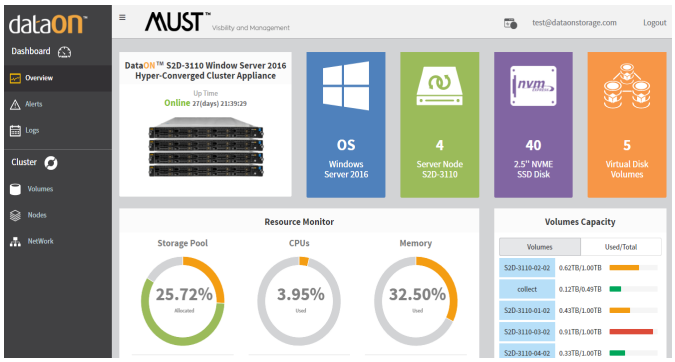
DataON MUST— Infrastructure Visibility and Management for Windows Server 2016

The DataON S2D solutions are integrated with DataON's exclusive MUST visibility and management tool to provide SAN-like storage monitoring features for customers deploying Windows Server software-defined solutions.

Leveraging the Windows Health Service API, MUST provides visibility to system-level information and storage cluster / volume / node-level utilization. It also gives you a dashboard-level view of your cluster, with operational visibility of system analytics, infrastructure health management, storage systems metrics, and event logging insights.

With system alerts based on Windows Health Service faults and SAN-like call home services, MUST notifies system administrators of hardware failures, configuration issues and resources saturation.

DataON is the first to market with a management tool that provides monitoring for Windows Storage deployments.



www.dataonstorage.com

dataon_sales@dataonstorage.com

1.714.441.8820

Copyright © 2017 DataON. All Rights Reserved. Specifications may change without notice. DataON is not responsible for photographic or typographical errors. DataON, the DataON logo, MUST, and the MUST logo are trademarks of DataON in the United States and certain other countries. Other company, product, or services names may be trademarks or service marks of others.

About DataON

DataON is the industry-leading provider of hyper-converged cluster appliances (HCCA) and storage systems optimized for Microsoft Windows Server environments. Our solutions are built with the single purpose of rapidly and seamlessly deploying Microsoft applications, virtualization, data protection, and hybrid cloud services. Our company is exclusively focused on customers who have made the "Microsoft choice" and we provide the ultimate platform for the Microsoft software-defined data center (SDDC). DataON is a division of Area Electronics Systems, Inc.