S2D-3110 Hyper-Converged Cluster Appliance

Windows Server 2016 Storage Spaces Direct (S2D)

Windows Server 2016 Certified

Windows Server 2012 R2 Certified

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

Built upon the DataON ClusterBlock Architecture (CBA), the S2D-3000 was created to provide scale-out and scale up infrastructure and management services for deploying Microsoft Windows Server 2016. With the DataON™ CBA, the family of Hyper-Converged Cluster Appliances incorporate the core software-defined services for compute, networking and storage, specified by Microsoft Storage Spaces Direct (S2D) and to build their next generation Software -Defined Data Centers (SDDC).

The new S2D-3000 family of Hyper-Converged Cluster Appliances™ (HCCA) are built and certified by Microsoft to seamlessly deploy with Microsoft's Windows 2016. The S2D-3000 family is designed on three core principles of scale out hyper-converged cluster, integrated software-defined services, and complete visibility and management of the storage infrastructure. The DataON™ S2D-3000 family provides both performance optimized solutions and capacity focused appliances to meet the needs of Microsoft Windows services and enterprise applications.

Benefits:

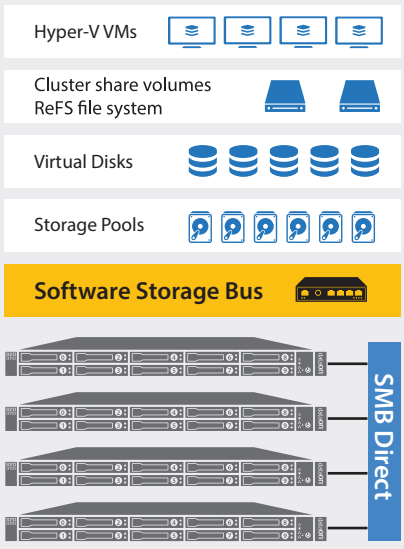
- **Performance** – All Flash NVMe SSD achieving 2.4M IOPs in 4-Nodes Cluster
- **Virtualization** – Support 40+ Hyper-V VMs per nodes up-to 16-Nodes per Clusters
- **Scalability** – Delivering compute, networking and storage resources near-linear scalability
- **Simplicity** – Simple out-of-box deployment and ease of installation
- **Management** – DataON™ Infrastructure Visibility and Management

DataON™ S2D-3110 Hyper-Converged Cluster Appliance Optimized for Performance and IOPs with Windows Server 2016 Storage Spaces Direct

The DataON™ S2D-3110 HCCA is built to optimize the full stack of Microsoft S2D in the Hyper-Converged platform. From Scale-Out File Server (SoFS) to Software Storage Bus to Storage and Networking hardware, this appliance runs on the cluster Shared Volumes Resilient file system (ReFS) and uses high performance NVMe SSDs with SMB 3.0 networking to maximize performance and IOPS. The integrated S2D-3110 HCCA platform and DataON™ MUST™ (Management Utility Software Tools) Visibility and Management Framework delivers:

- **Preconfigured 4-Nodes S2D-3110 HCCS Cluster** – Expand performance and capacity with scalability and operational flexibility.
- **Industry Leading Application Performance** – The S2D-3110 HCCA with four (4x) cluster nodes is capable of providing over 2.4 million IOPS (running VMFleet) using the latest all flash NVMe based SSD technology to scale I/O intensive workloads.
- **Hyper-V Virtualization Hosting** – Each S2D-3110 HCCA can support up to 40+ Hyper-V virtual machines per node, up to 16 nodes per cluster.
- **Storage and Network with SMB 3.0 over RDMA** – Delivers highest throughput, lowest latency, and increases CPU efficiency.
- **Hyper-Converged Scalability** - Incremental compute, networking, and storage resources provide near-linear scalability. Each HCCA can also be expanded in capacity via 12G SAS JBODs for further storage expansion.
- **Automated Deployment** – Automated out-of-box workflow accelerates time to deployment for Windows Server 2016, Storage Spaces Direct, and Storage Replica environments.
- **Integrated Data Protection and Guarded Fabric** - Fully support 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, Dynamics ERP, and Business Intelligence deployments.

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



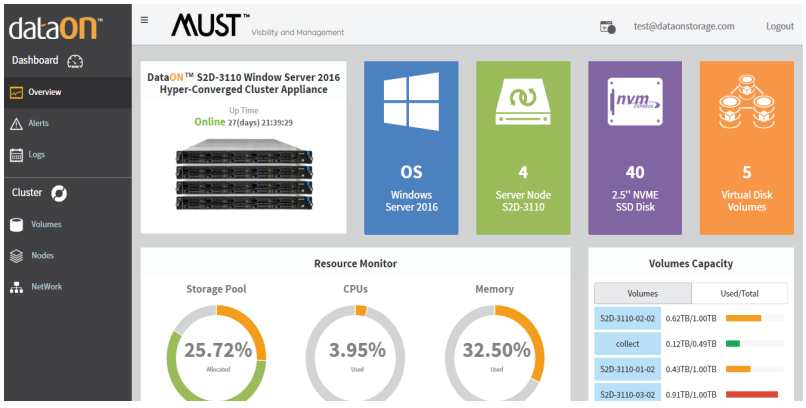
Appliance Node	S2D-3112 HCCA
Form Factor	1U Rack Mount
Processor	(2) Intel® Xeon® E5-2600v4 family, Max. TDP 145W up to 22 Cores
Chipset	Intel® C610
Memory	(20) DIMM slots, 2133/2400 MHz DDR4 RDIMM, up to 640GB
Storage Drive	(10) 2.5" hot-plug PCIe-base NVMe SSD
Expansion Slot	(2) NVMe Cache Tier & (8) NVMe Capacity Tier
	(1) PCIe 3.0 x8; & (2) PCIe 3.0 x8 LP
Network	Dual-port 10GbE RDMA NIC (RoCE/iWARP), up to 40/100GbE
Power & Cooling	(1+1) 750W hot-plug & Redundant & (6) dual-rotor fans
TPM	TPM 2.0
Microsoft Software	Hyper-Converged Premium
Defined Offering	Hyper-Converged Standard
	S2D Storage
Appliance Profile	All Flash NVMe SSD
Scale for Cluster	Four Nodes per S2D-3110 Cluster, up to 16
Management	DataON™ MUST™

DataON™ MUST— Infrastructure Visibility and Management for Windows Server 2016

DataON™ MUST (Management Utility Software Tools) provides a new level of advanced monitoring, visibility, analytics, and management tools leveraging the open Windows Storage Management API (SM-API). With the initial focus on storage monitoring and visibility, MUST provide system level information, storage cluster / volume / nodes level utilization, and automated fault alerts on your system. With MUST you will have dashboard level view of your operational visibility, analytics, infrastructure health management, storage systems metrics, and event logging insights.

Features:

- Dashboard Level Metrics
- System Alerts based on Health Server Faults
- Automated Email Services for Administrators
- Mobile Friendly User Interface



About DataON™

DataON™ is the industry leading provider for 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 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.

www.dataonstorage.com
dataon_sales@dataonstorage.com
1.714.441.8820
1247 N. Lakeview Ave #C
Anaheim, CA 92807