

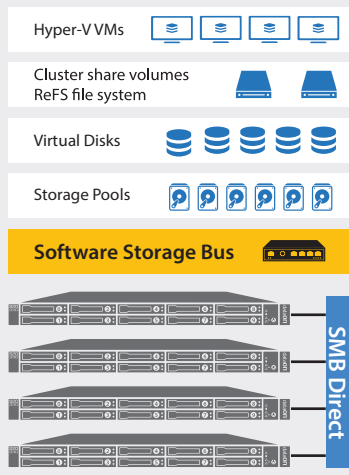
Windows Server 2016

Certified

### Features:

- Performance** – All-flash NVMe SSDs achieving 2.4M IOPS in 4-node cluster
- Virtualization** – Supports 40+ Hyper-V VMs per nodes, with up to 16 nodes per cluster
- Scalability** – Delivers compute, networking and storage resources with near-linear scalability
- Simplicity** – Simple out-of-the-box deployment and easy installation
- Management** – DataON MUST infrastructure visibility and management software

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



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

Built upon the DataON ClusterBlock Architecture (CBA), the S2D-3000 family of hyper-converged cluster appliances (HCCA) provides scale-out and scale-up infrastructure and management services for deploying Microsoft Windows Server 2016. The DataON HCCAs incorporate core software-defined services for compute, networking and storage specified by Microsoft Storage Spaces Direct (S2D) to build their next generation software-defined data centers (SDDC).

The S2D-3000 family of HCCAs is built and certified by Microsoft to seamlessly deploy with Microsoft Windows Server 2016. It 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. It is also comprised of solutions that are performance and I/O optimized, balanced for IOPS, and density, and capacity optimized for the delivery of core Microsoft services and enterprise applications.

## Optimized for Performance, Density, & Capacity with Windows Server 2016 Storage Spaces Direct

The DataON S2D-3000 family of HCCAs is built to optimize the full stack of Microsoft S2D in a hyper-converged platform. From scale-out file server (SoFS) and 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 capacity. The integrated S2D HCCA platform and DataON MUST (management utility software tools) visibility and management framework delivers:

- **Preconfigured 4-node HCCA Clusters** – Expanded performance and capacity with scalability and operational flexibility.
- **Industry-Leading Application Performance** – The HCCA with four cluster nodes is capable of providing over 2.4 million IOPS (running VM Fleet) using the latest all-flash Intel NVMe-based SSD technology to scale IOPS intensive workloads.
- **Maximum Capacity Utilization** – The capacity optimized HCCA with four cluster nodes is capable of providing over 150TB of usable capacity using the latest Intel NVMe-based SSD technology and SAS capacity drives to process enterprise applications and Hyper-V 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** – Delivers the highest throughput, lowest latency and increases CPU efficiency.
- **Hyper-Converged Scalability** – Incremental compute, networking, and storage resources provides near-linear scalability. Each HCCA can also be expanded in capacity via 12GB SAS JBODs for further storage expansion.
- **Automated Deployment** – Automated out-of-the-box workflows accelerate time to deployment for Windows Server 2016, Storage Spaces Direct, and Storage Replica environments.
- **Integrated Data Protection and Guarded Fabric** – Fully supports Windows Server 2016 with Shielded VM and TPM 2.0 trusted attestation for security and business continuity.





# DataON S2D Specifications

Compute, storage, and memory (per node)

Model	S2D-3110	S2D-3212	S2D-3224i	S2D-3240i
<b>Configuration</b>	All NVMe	Hybrid	All Flash	All Flash High Density
<b>Form-Factor</b>	1U 1-Node	2U 1-Node	2U 1-Node	2U 4-Node
<b>Drive bays</b>	10 x 2.5"	12 x 3.5"	24 x 2.5"	24 x 2.5"
	<b>Per Node</b>			
<b>CPU family</b>	Intel® Xeon® E5-2600 v4 Processor			
<b>CPU sockets</b>	Dual	Dual	Dual	Dual
<b>CPU clock</b>	2.1-3.5GHz	2.1-3.6GHz	2.1-3.6GHz	2.1-2.4GHz
<b>CPU core</b>	8-20 Cores	8-22 Cores	8-22 Cores	8-14 Cores
<b>Memory</b>	256GB - 1280GB DDR4	256GB - 1536GB DDR4	256GB - 1536GB DDR4	256GB - 1024GB DDR4
<b>NVMe</b>	20.0TB	1.6-4.0TB	3.2-8.0TB	1.6-4.0TB
<b>SSD (SATA)</b>	-	6.4TB	32TB	6.4TB
<b>HDD</b>	-	80TB	-	-
<b>Network</b>	2 x Intel I350 GbE	2 x Intel I350 GbE	2 x Intel® 10GbE	2 x Intel® 10GbE
<b>RDMA</b>	10/40/100GbE	10/40/100GbE	10/40/100GbE	10/40/100GbE
<b>Scale -Out</b>	4 to 16 nodes*	4 to 16 nodes*	4 to 16 nodes*	4 to 16 nodes*
<b>Security</b>	TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
<b>Monitoring Software</b>	DataON MUST	DataON MUST	DataON MUST	DataON MUST

\*MUST™ is DataON Storage Visibility and Management Software designed for Microsoft® Windows® 2016 Storage Spaces Direct.

## About DataON

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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.