



## Features:

- **High Performance** – Leverages all-flash NVMe SSDs to achieve over 3.2M 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** – Deploys easily with simple, out-of-the-box installation.
- **Easy to Manage** – Includes DataON MUST™ software for infrastructure visibility and management.

## DataON S2D Family of Hyper-Converged Infrastructure

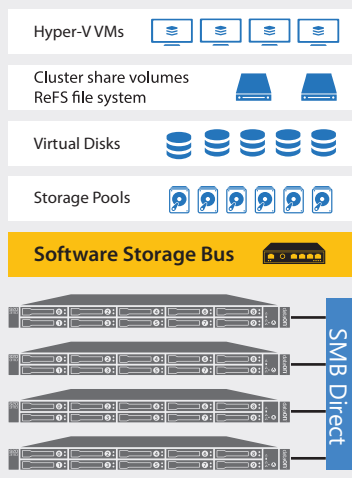
The DataON S2D family of hyper-converged infrastructure provides scale-out and scale-up infrastructure and management services for deploying Microsoft Windows Server 2016. It incorporates core software-defined services for compute, networking and storage as specified by Microsoft Storage Spaces Direct to create a next-generation software-defined data center (SDDC).

The S2D family is certified by Microsoft to seamlessly deploy with Microsoft Windows Server 2016. It provides the core principles of hyper-converged systems: a scale-out hyper-converged cluster, integrated software-defined services, and complete visibility and management of the storage infrastructure. The S2D family has also achieved Windows Server Software-Defined (WSSD) hyper-converged infrastructure premium certification, for the highest level of performance, manageability and security offered, delivered as a fully-deployed experience.

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

The DataON S2D family is built to optimize the full stack of Storage Spaces Direct, a feature in Windows Server 2016. It delivers industry-leading performance for the most affordable price, providing software-defined, shared-nothing storage. Windows Server 2016 can be used for hyper-converged deployments, where compute and storage are both on the same cluster, simplifying configuration and reducing hardware costs. Storage Spaces Direct can scale to up to 16 servers and over 400 drives, for up to 1 petabyte of storage per cluster. It also unlocks a new class of NVMe solid-state storage devices, for faster performance than SAS SSDs.

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



- **Intel® Xeon® Scalable Processors with Intel C620 chipsets and NVMe Express (NVMe)** – Leverages the latest technology to deliver incredible performance and responsiveness, with greater VM density.
- **Preconfigured 4-node Hyper-converged Clusters** – Scalable to up to 16 nodes, to provide expanded capacity and operational flexibility.
- **Industry-Leading Application Performance** – Provides over 3.2M IOPS performance (running VM Fleet) using the all-flash NVMe SSD technology to scale IOPS-intensive workloads.
- **Breakthrough performance and dramatically reduced disk latency** – Intel® Optane™ SSDs that are NVMe-based are available for the fast cache tier.
- **Hyper-V Virtualization Hosting** – Supports more than 40 Hyper-V virtual machines per node, with up to 16 nodes per cluster.
- **Storage and Networking with SMB3 over RDMA** – Increases CPU efficiency while delivering the lowest network latency and 2x throughput compared to TCP/IP.
- **Hyper-Converged Scalability** – Delivers incremental compute, networking, and storage resources while providing near-linear scalability. Each HCCA can 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.

# DataON S2D Family Specifications

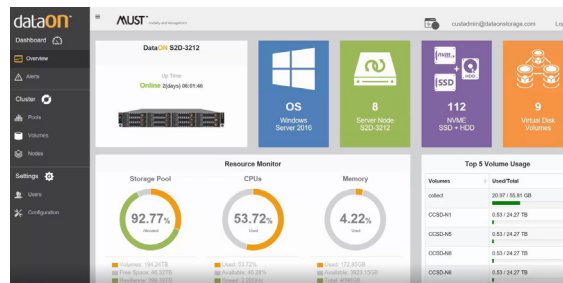
Compute, storage, and memory (per node)

\*Connects to JBOD for capacity tier

	S2D-5208i*	S2D-5212i	S2D-5224i	S2D-5240i
<b>Profile</b>	All-Flash/Hybrid Balanced IOPS & Capacity Optimized	Hybrid Performance & Cost Optimized	All-NVMe/All-Flash IOPS & Performance Optimized	All-Flash IOPS & Density Optimized
<b>Form Factor</b>	2U / 1-Node Rack with 8x 2.5" Bays	2U / 1-Node Rack with 12x 3.5" Bays	2U / 1-Node Rack with 24x 2.5" Bays	2U / 4-Node Rack with 24x 2.5" Bays
<b>Drive Bay Config 1</b>	4x NVMe U.2 + 24/60-Bay JBOD	2x NVMe U.2 + 10x SAS/SATA	24x NVMe U.2	8x NVMe U.2 + 16x SAS/SATA
<b>Drive Bay Config 2</b>	24/60-Bay JBOD	--	4x NVMe U.2 + 20x SAS/SATA or 4x Intel Optane + 20x NVMe	--
<b>Scalability</b>	4 to 16 Nodes per Cluster			
<b>Processor</b>	Intel® Xeon® Scalable Processor with Intel C620 Chipsets			
<b>CPU Cores</b>	Dual Socket, 16 to 44 Cores Per Node			
<b>Memory / Slots</b>	128GB to 1.5TB per node, 24 DIMM slots	128GB to 1.5TB per node, 24 DIMM slots	128GB to 1.5TB per node, 24 DIMM slots	128GB to 1.0TB per node, 16 DIMM slots
<b>Cache Tier</b>	Intel Optane™ or NVMe SSDs			
<b>Capacity Tier</b>	SATA HDDs (in external JBOD)	SATA SSDs & SAS HDDs	NVMe or SATA SSDs	SATA SSDs
<b>PCIe 3.0 Slots</b>	6x PCIe 3.0 x8	6x PCIe 3.0 x8	6x PCIe 3.0 x8	1x PCIe 3.0 x16
<b>Onboard NIC</b>	2x 10GbE RJ45			
<b>Networking</b>	2x 10GbE SFP+ or 2x 40/100GbE RDMA QSFP			
<b>Software</b>	DataON MUST Visibility, Monitoring, and Management Tool			
<b>Max. TDP</b>	165W	140W	140W	140W
<b>Power Supplies</b>	Dual 1300W	Dual 1300W	Dual 1300W	Dual 2130W

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

DataON MUST provides advanced cluster monitoring, performance metrics, system health statistics, and automated systems alerts for Windows Server environments. It can be used standalone or as a native extension for Windows Admin Center to provide end-to-end HCI monitoring and management capabilities from a single pane of glass. It adds to the Windows Admin Center experience by adding capabilities such as historic data reporting, disk mapping, system alerts, and call home services.



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## About DataON

DataON™ is the leader in Microsoft® Windows Server software-defined solutions. Our company is focused on customers who have made the "Microsoft choice" to deploy Microsoft applications, virtualization, data protection, and hybrid cloud services. Our enterprise-level solutions, delivered as a complete, turnkey experience, are designed to provide the highest level of performance, manageability, and security offered. DataON is a division of Area Electronics Systems, Inc.