DataON S2D Hyper-Converged Infrastructure from Windows Server

Quick Reference Guide

Highlights

- **Optimized for Windows Server 2016/2019 Storage Spaces Direct** — Storage Spaces Direct delivers industry-leading performance for the most affordable price, providing software-defined, shared-nothing storage. It can be used for hyper-converged deployments, simplifying configuration and reducing hardware costs. Scalable to up to 16 servers and over 400 drives.
- **Windows Server Software-Defined (WSSD) HCI Premium Certification** — Has Microsoft's highest certification for hyper-converged infrastructure, for the highest level of performance, manageability, and security offered. Reduces lengthy design & build times.
- **High Performance** — Utilizes all-flash Intel® Optane™ or NVMe SSDs to achieve over 3.2M IOPS in a 4-node cluster.

Technology

- **Intel® Xeon® Scalable Processors with Intel C620 Series Chipsets** — Provides greater VM density per cluster, delivering up to 28 cores per socket, 18 DIMMs per CPU memory density, and 224 physical cores.
- **Intel® Optane™ SSD Cache Tier (select models) —** Provides breakthrough performance and dramatically reduced disk latency with 30% greater IOPS performance for write-intensive workloads.
- **Storage and Networking with SMB3 over RDMA** — Increases CPU efficiency while delivering the lowest latency and 2x throughput versus TCP/IP.

MUST Visibility & Management Tool

- Provides SAN-like storage monitoring features for Windows Server software-defined environments.
- Displays dashboard-level metrics of your cluster through a single pane of glass, with operational visibility of system analytics, infrastructure health management, storage system metrics, and event logging insights.
- Sends system alerts and automated e-mail notifications for hardware failures, configuration issues and resource saturation.
- Can be used through its standalone console or within **Windows Admin Center**, adding historical data reporting, disk mapping, system alerts, and call home support.





	S2D-5108i	S2D-5208i*	S2D-5212i	S2D-5224i	S2D-5240i
Profile	All-NVMe Performance & Density Optimized	All-flash or hybrid IOPS & Capacity Optimized	Hybrid Performance & Cost Optimized	All-NVMe or all-flash IOPS & Performance Optimized	All-flash IOPS & Density Optimized
Form Factor	1U / 2-Node Rack ; 8x 2.5" Bays	2U / 1-Node Rack; 8x 2.5" Bays	2U / 1-Node Rack ; 12x 3.5" Bays	2U / 1-Node Rack; 24x 2.5" Bays	2U / 4-Node Rack; 24x 2.5" Bays
Drive Config 1	8x NVMe U.2	4x NVMe U.2 + 24/60-Bay External JBOD	2x NVMe U.2 + 10x SAS/SATA	24x NVMe U.2	8x NVMe U.2 + 16x SAS/SATA
Drive Config 2	—	24/60-Bay External JBOD	—	4x NVMe U.2 + 20x SAS/SATA	—
Scalability	4 to 16 Nodes per Cluster				
Processor	Intel® Xeon® Scalable Processor with Intel C620 Chipsets				
CPU Cores	Dual Socket, 16 to 44 Cores Per Node				
Memory / Slots	128GB to 1.5TB DDR4 DIMMs 24 slots				128GB to 1.0TB per DDR4 DIMMs 16 slots
Boot Drive	SATA M.2 480GB				
Cache Tier	Intel® Optane™ or NVMe SSDs				
Capacity Tier	Intel® NVMe SSDs	SAS HDDs (in external JBOD)	SATA SSDs & SAS HDDs	NVMe or SATA SSDs	SATA SSDs
PCIe 3.0 Slots	2x PCIe 3.0 x16	7x PCIe 3.0 x8	7x PCIe 3.0 x8	7x PCIe 3.0 x8	1x PCIe 3.0 x16
Onboard NIC	2x 10GbE RJ45 & 2x 10GbE SFP+	2x 10GbE RJ45			
Networking	2x 10/25GbE SFP+ or 40/100GbE QSFP+	4x 10GbE SFP+ or 2x 40/100GbE RDMA QSFP			
Max.TDP/Power	165W / Dual 1100W	165W / Dual 1300W	140W / Dual 1300W	140W / Dual 1300W	140W / 2130W

For more information about the products listed, contact: dataon_sales@dataonstorage.com

*Connects to JBOD for capacity tier.

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