DataON S2D Hyper-Converged Cluster Appliances
Quick Reference Guide

Highlights

- **Optimized for Windows Server 2016 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) Certification** — Follows Microsoft's requirements and best practices to ensure seamless deployments and steady-state operational experience on validated hardware.

- **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, leveraging the Windows Health Service API.

- 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.

	S2D-5208i*	S2D-5212i	S2D-5224i	S2D-5240i
Form Factor	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
Drive Config 1	4x NVMe U.2 + 24/60-Bay Ext. 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 1.5TB DDR4 DIMMs 24 slots	128GB to 1.5TB per DDR4 DIMMs 24 slots	128GB to 1.0TB per DDR4 DIMMs 16 slots
Cache Tier	Intel Optane™ or NVMe SSDs			
Capacity Tier	SAS HDDs (in external JBOD)	SATA SSDs & SAS HDDs	NVMe or SATA SSDs	SATA SSDs
PCIe 3.0 Slots	6x PCIe 3.0 x8	6x PCIe 3.0 x8	6x PCIe 3.0 x8	1x PCIe 3.0 x16
Onboard NIC	2x 10GbE RJ45			
Networking	2x 10GbE SFP+ or 2x 40/100GbE RDMA QSFP			
Security	TPM 2.0			
Max. TDP / Power Supplies	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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