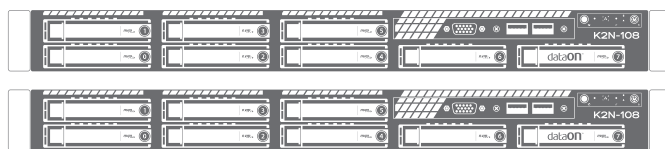# DataON Kepler 2-Node (K2N) Hyper-Converged Appliances

dataON™

Features

- **Designed for SMB, ROBO and Edge** – Cost-effective 2-node hyper-converged appliances.

- **Simple to deploy** – Get started in less than 15 minutes, without an Ethernet switch.

- **High performance** – Performance-tuned with NVMe SSD and 25GbE SMB3 RDMA fabric.

- **Certified by Microsoft** – Validated as a Windows Server Software-Defined (WSSD) solution.

- **Managed by MUST** – Includes DataON MUST software for infrastructure visibility, monitoring, and management.

Move into the cloud with the latest infrastructure technologies

withness virtual machines

management witness

S2D Availability Set

Windows Server 2016 Hyper-Converged Solutions for SMB, ROBO, and Edge Deployments

DataON Kepler 2-node (K2N) hyper-converged appliances are designed for smaller, remote deployments such as small-to-medium sized businesses, remote office/branch offices and Edge computing. These environments can present a challenge for IT departments because of constrained budgets, space and power footprints, and IT resources. DataON Kepler appliances are optimized for Microsoft Windows Server 2016 Storage Spaces Direct, to create highly available (HA) and highly scalable HCI platforms with RDMA networking to deliver unrivaled efficiency and performance.

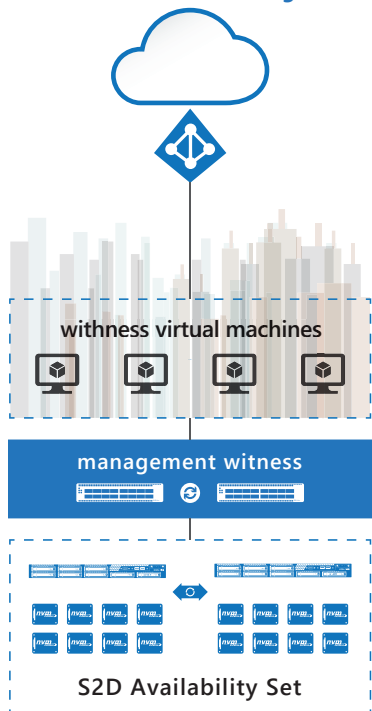## DataON Kepler 2-Node (K2N) Hyper-Converged Appliances with Storage Spaces Direct

DataON K2N solutions are low cost and small-sized hyper-converged appliances designed with integrated compute, network and storage infrastructure. They have near-linear scalability to simplify and maximize the deployment of Microsoft applications, virtualization, data protection and hybrid cloud services. They are designed to optimize the full stack of Storage Spaces Direct, a feature in Windows Server 2016, for the most affordable software-defined, shared-nothing storage.

K2N appliances combine high-performance NVMe SSDs with your choice of all-flash or hybrid storage to maximize performance and capacity. They are available in mini tower, 1U rack, and 2U rack configurations. All of them are designed to be turnkey, easy-to-deploy solutions that can be up and running in less than 15 minutes. The nodes in each solution are directly connected to each other without an Ethernet fabric switch. Mini tower nodes are connected via Intel® Thunderbolt™ 3 and rack nodes are connected via 25GbE cables. Rack models are expandable to 16 nodes without needing to replace any hardware.

K2N appliances are certified by Microsoft to seamlessly deploy with Microsoft Windows Server 2016. They have also achieved Windows Server Software-Defined (WSSD) certification. This ensures that they follow Microsoft's requirements and best practices for seamless deployments and steady-state operational experience on validated hardware.

- **Windows certified and validated, pre-configured solutions** – Highly available (HA) and ready to be deployed out-of-the-box in 15 minutes or less.

- **Affordable solution for SMB, ROBO, and Edge** – Complete 2-node hyper-converged solutions at an affordable entry point price under $30K.

- **Simplified infrastructure** – Windows Server 2016 hyper-converged environment consolidates compute, storage and networking, reducing space and power by up to 80%.

- **High availability and resiliency** – The servers form one Windows Server 2016 failover cluster with Cloud witness as low cost, low footprint quorum technology.

- **Flexible platforms** – Choose between mini tower, 1U rack server, and 2U rack platforms.

- **Performance-tuned** – Leverages NVMe SSD cache and 25GbE SMB3 RDMA fabric for high performance.

- **Low-cost, high-speed networking** – Mini tower models leverage Intel Thunderbolt technology to eliminate the need for costly network adapters and switches. Rack models are directly connected via 25GbE cables, eliminating the need for an expensive Ethernet switch.

K2N-47

K2N-108

K2N-212

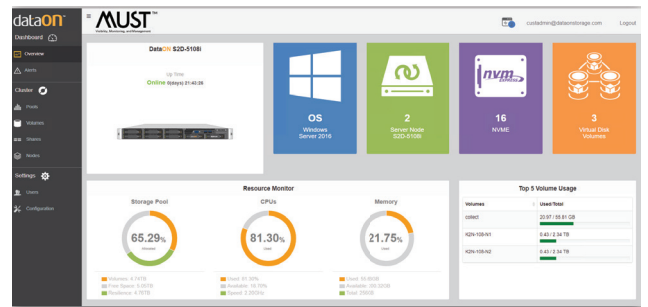|	K2N-47	K2N-108	K2N-212
Form Factor	Mini tower, 2-Node	1U Rack, 2-Node	2U Rack, 2-Node
Profile	Hybrid or All-Flash	All-NVMe	Hybrid or All-Flash
Drive Bay	8x 2.5" SAS/SATA	8x NVMe U.2	2x NVMe U.2 +10x SAS/SATA
Scalability	2 Nodes per Cluster	2 to 16 Nodes per Cluster	
Processor	Single Intel® Xeon® E3-1230 v6 3.5GHz per Node	Dual Intel® Xeon® Silver 4110 Processor per Node	
CPU Cores	4 Cores per Node	16 Cores per Node	
Memory/Slots	64GB DDR per Node	128GB per Node	
Cache Tier	--	--	Intel NVMe SSDs
Capacity Tier	SATA SSDs	Intel NVMe SSDs	SATA SSDs & SAS HDDs
PCIe 3.0 Slots	1x PCIe 3.0 x8	2x PCIe 3.0 x16	7x PCIe 3.0 x8
Onboard NIC	2x 1GbE RJ45	2x 10GbE RJ45	
Networking	2x Intel Thunderbolt™ 3 or 2x 10GbE	2x 10/25GbE SFP+ or 2x 40/100GbE QSFP28 RDMA	
Software	DataON MUST Visibility, Monitoring, and Management Tool		
Max. TDP	72W	165W	140W

Features

- **Dashboard level metrics** through a single pane of glass.

- **System alerts & automated e-mail notifications** for hardware failures, configuration issues and resource saturation.

- **Mobile friendly user interface** allows you to monitor your Windows Storage deployments when you're out of the office.

- **Pre-configured with DataON hyper-converged solutions** at no extra charge.

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1.714.441.8820

DataON MUST— Infrastructure Visibility and Management for Windows Server 2016

Every DataON K2N hyper-converged solution is pre-configured with our exclusive MUST (Management Utility Software Tool) visibility, monitoring, and management tool to provide SAN-like storage monitoring features.

Leveraging the Windows Health Service API, MUST can provide visibility at the system level as well as the storage cluster/volume/node levels. Its dashboard view gives you operational visibility of system analytics, infrastructure health, storage system metrics, and even logging insights.

With system alerts based on Windows Health Service faults and SAN-like call home services, MUST can notify system administrators of hardware failures, configuration issues, and resource saturation.

About DataON

DataON™ is the industry leading provider of 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 Systems, Inc.