DataON™ Announces the Productization of Project Kepler-47, A Two-Node Hyper-Converged Infrastructure for Windows Server 2016 Storage Spaces Direct and Hyper-V Under $10K

DataON, an industry-leading provider of hyper-converged cluster appliances (HCCA) and optimized storage systems for Windows Server environments, today announces the first commercially available Kepler-47 hyper-converged infrastructure for Windows Server 2016 Storage Spaces Direct.

Anaheim, California (PRWEB) September 20, 2017 -- DataON, an industry-leading provider of hyper-converged cluster appliances (HCCA) and optimized storage systems for Windows Server environments, today announces the first commercially available Kepler-47 hyper-converged infrastructure for Windows Server 2016 Storage Spaces Direct.

• First Two-Node Hyper-Converged Infrastructure for Remote/Branch Office (ROBO), Edge Computing, and Internet of Things (IoT)
• Designed for Windows Server 2016 Hyper-V and Storage Spaces Direct
• Choice of Value-optimized Hybrid and Performance-optimized All-Flash SSD HCI with Enterprise High Availability
• Low-Cost, High-Speed Networking with Intel® Thunderbolt™ 3 Technology
• Small Form Factor Hyper-Converged Infrastructure for under $10K
• Easy to deploy, manage, and backed with Single Point of Support from DataON

Project Kepler-47 was a proof-of-concept from Microsoft’s Windows Server team that was presented at Microsoft Ignite 2016. The goal was to bring the software-defined data center features of Windows Server 2016 to remote office/branch office (ROBO), edge computing, and Internet of Things (IoT) environments. While these deployments share the same need for high availability for mission-critical apps and reliable storage, enterprise customers are looking for lower cost options. The DataON Kepler-47 appliance is built to optimize the full stack of Microsoft Storage Spaces Direct, this pre-configured and stress-tested solution is ideal for smaller deployments at an affordable cost.

• Kepler-47S – Value-optimized solution with hybrid SDD/HDD storage in a 2-node cluster
• Kepler-47P – Performance-optimized solution with all-flash SSDs in a 2-node cluster

This solution can achieve over 200K IOPS in a 2-node cluster. It combines high-performance SSDs with your choice of hybrid or all-flash storage to maximize performance and capacity. This appliance runs on the Cluster Shared Volumes Resilient File System (ReFS) to maximize data availability, deliver high resiliency, and improve data integrity across scale-out file server (SoFS) and software-defined data center stacks.

• Intel® Xeon® E3-1230 V6 4C/8T 3.5GHz
• 64GB DDR4 ECC Memory
• 10TB Usable Storage (Mirrored)
• 200,000 IOPS Throughput
• Intel Thunderbolt™ 3 networking
“DataON is exclusively focused on customers who have the ‘Microsoft choice’ for their software-defined data centers,” said Howard Lo, vice president of sales and marketing, DataON. “We were intrigued by the Project Kepler-47 proof-of-concept last year and we wanted to accept the challenge to bring the first Kepler-47 appliance to market. We are excited to introduce the Kepler-47 appliance, a budget-friendly Storage Spaces Direct two-node solution for customers with small and ROBO deployments. We are proud to work with Microsoft, Intel, and MSI to make this concept a reality.”

Claus Joergensen, Principal Program Manager for Storage Spaces Direct, Microsoft Corp. said, “Project Kepler-47 was a proof-of-concept that was born during our development of Storage Spaces Direct over the past 4 years. The question that we were trying to answer for our customers was ‘how low can you go?’ We had a high-performing, resource-efficient and budget-friendly product in Storage Spaces Direct and we wanted to see if it was possible to create a low-cost appliance that could run Storage Spaces Direct to meet the needs of small and ROBO deployments.”

Kepler-47 uses Intel Thunderbolt 3 over a USB Type-C connector instead of traditional Ethernet networking between the servers. This eliminates the need for costly high-speed network adapters and switches. Thunderbolt 3 provides up to 40Gbps throughput, plenty for replicating storage and live migration of virtual machines.

“This is a new and exciting application for Thunderbolt technology”, said Jason Ziller, General Manager, Client Connectivity Division at Intel. “The ability for Thunderbolt 3 to provide low-cost 10GbE networking makes it a perfect complement for Storage Spaces Direct to provide a low-cost hyper-converged infrastructure.”

DataON partnered with MSI to design the Kepler-47 appliance, including the chassis, motherboard and components.

“DataON and MSI have been long-time partners in creating hyper-converged cluster appliances,” said Norman Tsai, General Manager of Enterprise Platform Solutions BU, MSI. “When DataON approached us about the Kepler-47 concept, we were enthusiastic to support this project and provided our rich x86 platform design and production resources.”

The Kepler-47 appliances will be featured at the DataON booth (#1726) at Microsoft Ignite 2017, from September 25-29, 2017 in Orlando, Florida.

DESIGNED FOR WINDOWS SERVER 2016 STORAGE SPACES DIRECT

DataON Kepler-47 solutions are built to optimize the full stack of Microsoft Storage Spaces Direct in a hyper-converged platform.

DataON Kepler-47 solutions deliver:

- Simple 2-node hyper-converged infrastructure – Provides high availability and storage for enterprise applications with over 10TB usable capacity in a mirrored configuration.

- Hyper-V virtualization – Supports more than 20 Hyper-V virtual machines per HCI deployment.

- Low-cost, high-speed networking – Thunderbolt 3 provides simple, standardized and cost effective connection with the highest appliance I/O bandwidth, eliminating the need for costly network adapters and switches in
many implementations.

-Small Form Factor – Saves space with a footprint more than 50% smaller than a standard 2U rack server.

-High Availability and Resiliency – The servers form one Windows Server 2016 failover cluster with Cloud Witness as low-cost, low footprint quorum technology.

-Fault Tolerant – Uses local drives and leverages Storage Replica with Azure Site Recovery.


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 exclusively 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. For more information, go to www.dataonstorage.com or call +1 (714) 441-8820.

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