DataON Arc-Enabled Hybrid Cloud Validated Nodes for Microsoft Azure Stack HCI

Highlights

- **A hyper-converged infrastructure operating system** — Azure Stack HCI is hybrid by design with support for Azure Virtual Desktop for Azure Stack HCI (preview), Azure Kubernetes Service hybrid, and more. Host locally with the benefits of Azure with always-up-to-date HCI delivered as a service.

- **HCI made simpler with Azure Arc** — The tight integration of Arc and Azure Stack HCI gives you a cloud-like experience for provisioning, management, and monitoring for Azure Stack HCI in hybrid environments.

- **Get up and running quickly & reliably** — DataON validated nodes provide a reference architecture-like experience with the broadest choice of hardware components.

Technology

- **4th Generation Intel® Xeon® Scalable processors** — Features built-in accelerators to improve performance across the fastest growing workloads (AI, analytics, networking, and storage) and provide more efficient utilization and power efficiency.

- **NVIDIA graphic processing units (GPUs) (select models)** — Provides high-user density for virtual desktop infrastructure (VDI) environments, powering the remote workforce.

- **Storage and Networking with SMB3 over RDMA** — Increases CPU efficiency while delivering the lowest latency and 2x throughput versus TCP/IP.

DataON MUST™ Visibility & Management Tool

- **DataON MUST** — Combines with Windows Admin Center to provide the ultimate monitoring and management for Azure Stack HCI and Windows Server environments from a single console. Adds functionality such as enhanced disk mapping, alert services, and call home service.

- **Call home service (available)** — Integrates with Azure Analytics to provide real-time monitoring of DataON solutions for Azure Stack HCI for disk failures or predicted disk failures. MUST can notify systems administrators and start the process to send a replacement disk.

	DataON HCI-7112	DataON HCI-7208G	DataON HCI-7212	DataON HCI-7216	DataON HCI-7224
SPECIFICATIONS					
Profile / Optimization	All-NVMe / Size & Performance	GPU Optimized	Hybrid / IOPS & Capacity	All-NVMe / IOPS & Performance	All-NVMe / IOPS & Performance
Form Factor	1U / 1-Node Rack	2U / 1-Node rack	2U / 1-Node rack	2U / 1-Node rack	2U / 1-Node rack
Drive Bay Config	12x 2.5" NVMe U.2	8x 2.5" NVMe U.2	4x 2.5"/3.5" NVMe U.2	16x 2.5" NVMe U.2	24x 2.5" NVMe U.2
PCIe Slot Config	2x PCIe 5.0 x16; 1x PCIe 5.0 x8	2x PCIe 5.0 x8; 2x PCIe 5.0 x16 (2W), 2x PCIe 5.0 x16 (1W)	2x PCIe 5.0 x8; 4x PCIe 5.0 x8 (elec, x16 mech; 2x PCIe 5.0 x16 (elec/mech)	2x PCIe 5.0 x8; 4x PCIe 5.0 x8 (elec and 16x mec); 2x PCIe 5.0 x16 (e/m)	1x PCIe 5.0 x8; 1x PCIe 5.0 x8 elec, x16 mech; 2x PCIe 5.0 x16 (e/m)
GPU	N/A	Up to 2x NVIDIA A2/16/30/40	N/A	Available	Available
Max. TDP / Power	205W / Dual 1300W @ 100-240V	250W / Dual 2100W @ 240V	205W / Dual 1300W @ 100-240V	350W / Dual 1300W @ 100-240V	350W / Dual 1300W @ 100-240V
Scalability	2 to 16 Nodes per cluster				
CONFIGURATION					
Processor	4th Generation Intel® Xeon® Scalable processors				
Number of Cores	Dual socket, up to 64 cores (per node)				Dual socket, up to 120 cores
Memory	Up to 8TB DDR5 3200 MT/s DIMMs (or 4TB per processor) / 32 slots (per node)				
Cache Tier	N/A	N/A	NVMe SSDs		N/A
Capacity Tier	NVMe SSDs				
Resiliency	2-way mirror, nested 2-way mirror, nested mirror-accelerated parity, 3-way mirror, mirror-accelerated parity				
Onboard Network	2x 10GbE RJ45 OCP mezzanine (per node)				
Add-On Networking	2x 25GbE SFP28 or 2x 40/50/100GbE QSFP28/56 2-port RDMA (per node)				
Networking Switch	2x 18/32-Port SFP28 25GbE; 2x 32-port QSFP 100GbE; or switchless				

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