DataON Arc-Enabled Hybrid Cloud Validated Nodes for Microsoft Azure Local

Highlights

- **A hyper-converged infrastructure operating system** — Azure Local is hybrid by design with support for Azure Virtual Desktop for Azure Local, 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 Local gives you a cloud-like experience for provisioning, management, and monitoring for Azure Local 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

- **5th Generation Intel® Xeon® processors** — Get more compute and faster memory, plus outsized performance and TCO in AI, HPC, database, networking, and storage.
- **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 Local 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 Local 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" NVMe U.2 + 8-10x 3.5" SAS/SATA	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 Dual-slot GPUs	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	1 to 16 Nodes per cluster				
CONFIGURATION					
Processor	5th 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		HDDs	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 100GbE QSFP28/56 2-port RDMA (per node)				
Networking Switch	2x 48-port SFP28 25GbE; 2x 32-port QSFP 100GbE; or switchless				

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