



## Dell Integrated System for Microsoft Azure Local

### Dell and Microsoft certified and validated cloud infrastructure with end-to-end support

Dell Integrated System for Microsoft Azure Local delivers preconfigured, tightly integrated, and reliable hyperconverged infrastructure that is designed for on-premises Azure deployments. With a Microsoft-native management experience, this solution enhances automation and integration, empowering organizations to innovate and optimize their Azure hybrid cloud environment.

### Azure Stack HCI OEM license

Three Microsoft services bundled into a single perpetual license, including Azure Local, unlimited Windows Server 2022 Datacenter guest VMs and Azure Kubernetes Service.

### Key Features of the integrated system:

- With Azure Local, you can treat physical machines like cloud resources by using the Azure portal and APIs to perform lifecycle operations like deployment, configuration, updates, and monitoring.
- Azure Local includes the foundational Azure compute, networking, storage, and Kubernetes services needed to run all your apps, VMs and containers, Windows and Linux, running side-by-side on the same physical infrastructure.
- Azure Local is deployed with a hardened infrastructure security posture by default. Secured-Core settings are automatically applied, data is automatically encrypted, and app control is automatically enforced.
- Run select Azure platform services like app services, data services, and AI services on Azure Kubernetes Service, which is fully included at no additional cost with Azure Local.
- AX nodes from Dell offer deliberate, flexible, and factory-ready configurations to meet the performance and capacity requirements of any workload.
- Dell OpenManage Integration with Microsoft Windows Admin Center delivers granular, cluster-level management on-premises and simplifies management, monitoring, security, configuration drift detection and remediation, and more.
- Dell ProDeploy and Dell ProSupport services deliver professional onsite deployment and single point of contact technical support.

“Dell did the work to build their nodes to have the maximum amount of power and storage in a 2U device that conforms and is on catalog for Storage Spaces Direct. It was really an easy design to put forward and to consolidate our existing Hyper-V virtual machines on to.”

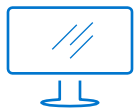
Lee Harrison  
Microsoft Solutions Architect, Fasthosts

# AX-760

Storage Configuration	All Flash		Hybrid	
	All Flash (All-SSD)	All Flash (All-NVMe)	Hybrid (SSD + HDD)	Hybrid (NVMe + HDD)
Chassis Configurations	24 drives: 24 x 2.5" front or 28 drives: 24 x 2.5" front bay + 4 x 2.5" rear	24 x 2.5" front bay drives (switched)	16 drives: 12 x 3.5" HDDs + 4 x 2.5" SAS (rear)	16 drives: 12 x 3.5" HDDs + 4 x 2.5" NVMe (rear)
Processors	Two 4th Gen (Sapphire Rapids) or 5 <sup>th</sup> Gen (Emerald Rapids) Intel Xeon Scalable processors with up to 64 cores per processor			
Memory	128 GB to 8 TB (Up to 32 x DDR5 RDIMMs, speeds up to 5600 MT/s)			
Storage controller	Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID)	None	Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID)	Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID)
Storage - OS Boot	BOSS N1 with dual hot-plug M.2 NVMe 960GB in RAID1			
Drive Count and Storage for Cache Min/Max	-	-	Min: 2 x 800GB = 1.6 TB Max: 4 x 1.6TB = 6.4 TB	Min: 2 x 1.6TB = 3.2 TB Max: 4 x 6.4TB = 25.6 TB
Drive Count and Storage for Capacity Min/Max	Min: 2 x 800GB = 1.6 TB Max: 28 x 7.68TB = 215 TB	Min: 2 x 960 TB = 1.92 TB Max: 24 x 15.36TB = 369 TB	Min: 4 x 4 TB = 16 TB Max: 12 x 20 TB = 240 TB	Min: 4 x 4 TB = 16 TB Max: 12 x 20 TB = 240 TB
Network cards	Form factors: <ul style="list-style-type: none"> <li>- PCIe (required): 1-4</li> <li>- OCP 3.0 (optional)</li> <li>- Integrated LOM: 2 x 1GbE Broadcom 5720 (used for factory imaging only, not supported for customer use cases)</li> </ul> Vendors: Intel and NVIDIA Port Count: Dual-port and quad-port Operational speeds: 10, 25, and 100GbE RDMA protocol support: iWARP, RoCE (GPUs are not supported on All flash chassis with rear storage.)			
GPU DW = Double Wide SW = Single Wide	<ul style="list-style-type: none"> <li>- NVIDIA Ampere A2 SW, 60W, 16GB Passive, up to 4</li> <li>- NVIDIA Ampere A16 DW, 250W, 64GB Passive, up to 2</li> <li>- NVIDIA Ada Lovelace, L4, SW, 72W, 24GB Passive, up to 4</li> <li>- NVIDIA Ada Lovelace, L40, DW, 300W, 48GB Passive, up to 2</li> <li>- NVIDIA Ada Lovelace, L40S, DW, 350W, 48GB Passive, up to 2</li> </ul>		Not supported	Not supported
Operating System	Microsoft Azure Local, version 23H2 (factory preinstalled), 22H2 (optional)			
Out of Band Management	Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliant			
Integrations	Dell OpenManage Integration with Microsoft Windows Admin Center			
Services	ProDeploy, ProDeploy Plus, ProSupport, ProSupport Plus, optional Dell Infrastructure and Consulting services Call-routing, phone home, remote support, and automated case creation supported with Secure Connect Gateway			
Security	Trusted Platform Module 2.0			
Power Supplies	Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800/2400/2800 W			
Form Factor	2U Rack			

## AX-4000x | AX-4510c & AX-4520c

Model	AX-4510c – All-NVMe (1U sled)	AX-4520c – All-NVMe (2U sled)
Chassis Configurations	AX-4000r (Rackable): 1-4 sleds AX-4000z (Flexible/Stackable): 1-2 sleds	AX-4000r (Rackable): 1-2 sleds AX-4000z (Flexible/Stackable): 1 sled
Processors	Single Socket Intel Xeon Ice Lake D 3rd Generation (8/16/20 cores)	
Memory	64 GB to 512 GB (Up to 4 x 128GB DDR5 3200MT/s)	
Storage controller	None	
Storage - OS Boot	BOSS N1 Modular ET (embedded) with dual M.2 NVMe 960GB in RAID1	
Drive Count and Storage for Cache Min/Max	-	-
Drive Count and Storage for Capacity Min/Max	Minimum: 2 x 800GB = 1.6 TB Maximum: 4 x 3.84TB = 15.36 TB	Minimum: 6 x 800GB = 4.8 TB Maximum: 12 x 3.84TB = 46.08 TB
Network cards	<ul style="list-style-type: none"> <li>- Integrated LOM                             <ul style="list-style-type: none"> <li>- Intel E823-C LOM quad port 10/25 GbE</li> </ul> </li> <li>- PCIe: None</li> </ul>	<ul style="list-style-type: none"> <li>- Integrated LOM                             <ul style="list-style-type: none"> <li>- Intel E823-C LOM quad port 10/25 GbE</li> </ul> </li> <li>- PCIe: 1-2                             <ul style="list-style-type: none"> <li>- Vendors: Intel and NVIDIA</li> <li>- Port Count: Dual-port and quad-port</li> <li>- Operational speeds 10, 25, and 100GbE</li> <li>- RDMA protocol support: iWARP, RoCE</li> </ul> </li> </ul>
GPU DW = Double Wide SW = Single Wide	NA	GPU capable: up to 2 x SW - NVIDIA Ampere A2 SW, 60W, 16GB Passive - NVIDIA Ada Lovelace L4 SW, 72W, 24GB Passive
Operating System	Microsoft Azure Local, version 23H2 (factory preinstalled), 22H2 (optional)	
Out of Band Management	Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliant	
Integrations	Dell OpenManage Integration with Microsoft Windows Admin Center	
Services	ProDeploy, ProDeploy Plus, ProSupport, ProSupport Plus, optional Dell Infrastructure and Consulting services Call-routing, phone home, remote support, and automated case creation supported with Secure Connect Gateway	
Security	Trusted Platform Module 2.0	
Power Supplies	Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800 W	
Form Factor	1U Rack	2U Rack



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