



Dell AX System for Azure Local

The foundation for your Azure adaptive cloud

Dell AX System for Azure Local is Dell's offering for Premier Solutions, a category in the Azure Local catalog reserved for key partners with the greatest levels of engagement with Microsoft and deepest integrations into familiar Microsoft management tools. Dell AX System delivers turnkey, purpose-built hybrid cloud infrastructure that is designed for on-premises Azure deployments. With a Microsoft-native management experience and the Dell OpenManage Integration with Microsoft Windows Admin Center, this solution enhances automation and integration, empowering organizations to innovate and optimize their Azure hybrid cloud environment.

Azure Stack HCI OEM license

Purchase three Microsoft services in a single perpetual license:

- Azure Local
- Azure Kubernetes Service (AKS) enabled by Azure Arc
- Unlimited containers and Windows Server 2022 Datacenter Edition VMs

The Azure Stack HCI OEM license is only available at initial purchase and cannot be added later. The licensing is configured on the AX nodes in the factory and cannot be changed.

Key features of this Premier Solution

- Intelligently designed AX nodes from Dell offer:
 - Azure Local factory pre-installed.
 - Flexible configurations for varying application performance, capacity, or location needs – including ruggedized AX-4000 for edge locations with challenging environmental conditions.
 - Azure Local instance scalability from 1 to 16 machines
 - Single-machine Azure Local instances for remote, edge or branch office projects that can tolerate the resiliency of a single machine.
- Supported with Dell PowerFlex software-defined storage for linear scaling of storage resources independently from Azure Local compute and Storage Spaces Direct.
- Automated, full stack lifecycle management using Azure Update Manager with Dell's Solution Builder Extension (SBE) integrated for firmware, driver, and Windows Defender Application Controls (WDAC) supplemental policy updates.
- Dell ProDeploy and ProSupport services deliver professional onsite deployment and single contact technical support.
- Dell OpenManage Integration with Microsoft Windows Admin Center delivers integrations with Azure services. Add Dell HCI Configuration Profile (HCP) policy definitions into Azure Policy and AX node hardware alerting into Azure Monitor.

"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 5th 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"> - PCIe (required): 1-4 - OCP 3.0 (optional) - Integrated LOM: 2 x 1GbE Broadcom 5720 (used for factory imaging only, not supported for customer use cases) 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"> - NVIDIA Ampere A2 SW, 60W, 16GB Passive, up to 4 - NVIDIA Ampere A16 DW, 250W, 64GB Passive, up to 2 - NVIDIA Ada Lovelace, L4, SW, 72W, 24GB Passive, up to 4 - NVIDIA Ada Lovelace, L40, DW, 300W, 48GB Passive, up to 2 - NVIDIA Ada Lovelace, L40S, DW, 350W, 48GB Passive, up to 2 		Not supported	Not supported
Operating System	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 Dell OpenManage Integration extension v3.3.2 or higher can be installed in Windows Admin Center deployed on-premises or the Azure portal.			
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			

PowerFlex Integration

If connecting to a PowerFlex Cluster, refer to the [Design Guide](#).

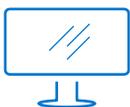
AX-4000x | AX-4510c & AX-4520c

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"> - Integrated LOM <ul style="list-style-type: none"> - Intel E823-C LOM quad port 10/25 GbE - PCIe: None 	<ul style="list-style-type: none"> - Integrated LOM <ul style="list-style-type: none"> - Intel E823-C LOM quad port 10/25 GbE - PCIe: 1-2 <ul style="list-style-type: none"> - Vendors: Intel and NVIDIA - Port Count: Dual-port and quad-port - Operational speeds 10, 25, and 100GbE - RDMA protocol support: iWARP, RoCE
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	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	
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Security	Trusted Platform Module 2.0	
Power Supplies	Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800 W	
Environmental	Purpose-built and ruggedized for edge deployments: <ul style="list-style-type: none"> • Operate in temp ranges from -5C to 55C. Rated to MIL 810H and NEBS Level 3. • 'Stackable' and 'rackable' chassis with options to mount on walls or place on shelves when space is at a premium. • Withstand dusty and harsh environments while providing extra physical security with an optional lockable intelligent filtered bezel. 	
Form Factor	1U Rack	2U Rack

PowerFlex Integration

If connecting to a PowerFlex Cluster, refer to the [Design Guide](#).

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