



# Dell AX System for Azure Local: The Premier Hybrid Foundation

## Stop Managing Complexity. Start Innovating.

The Dell AX System for Azure Local is the most deeply integrated, purpose-built infrastructure for running Azure on-premises. As a Microsoft Premier Solutions partner, Dell gives you the unified, cloud-native experience you demand, eliminating the complexity and friction of traditional hybrid IT.

**DELL**Technologies  
TITANIUM BLACK PARTNER

 Microsoft Azure

## Get Started with the Premier Azure Experience

Ready to unify your cloud and data center?

The Dell AX System for Azure Local is the fastest path to realising a truly seamless, fully supported Azure hybrid cloud.

- **Accelerate Innovation:** Leverage Azure services on-premises with integrated automation and a cloud-native experience.
- **Simplify Management:** Eliminate complexity with full-stack lifecycle management using familiar Azure and Dell tools.
- **Scale Confidently:** Deploy the right-sized infrastructure, from the edge to the data center, backed by Dell ProSupport.

# Node information

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"> <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: Broadcom, 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	- 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
DW = Double Wide SW = Single Wide				
Azure Local release	Latest Azure Local golden image from Dell Technologies available from the <a href="#">Support Matrix</a> .			
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 v3.3.2 or higher can be used with Windows Admin Center installed locally on-premises or Windows Admin Center in 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](#).

# Node information

AX-660		
Storage Configuration	All Flash (All-SSD)	All Flash (All-NVMe)
Chassis Configurations	10 x 2.5" SAS Chassis Up to 10 SSD front drives (SAS/vSAS)	10 x 2.5" NVMe Chassis Up to 10 NVMe front drives
Processors	Two 4th Gen (Sapphire Rapids) or 5 <sup>th</sup> Gen (Emerald Rapids) Intel Xeon Scalable processors with up to 36 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
Storage - OS Boot	BOSS N1 with dual hot-plug 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: 10 x 7.68TB = 76.8 TB	Minimum: 2 x 960GB = 1.92 TB Maximum: 10 x 15.36TB = 153.6 TB
Network cards	Form factors: <ul style="list-style-type: none"> <li>- PCIe (required): 1-3</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: Broadcom, 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	GPU capable of up to 2 x SW GPU <ul style="list-style-type: none"> <li>- NVIDIA Ampere A2 SW, PCIe, 60W, 16GB Passive</li> <li>- NVIDIA Ada Lovelace, L4, SW, 72W, 24GB Passive</li> </ul>	
Azure Local release	Latest Azure Local golden image from Dell Technologies available from the <a href="#">Support Matrix</a> .	
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 v3.3.2 or higher can be used with Windows Admin Center installed locally on-premises or Windows Admin Center in 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 W	
Form Factor	1U Rack	
<b>PowerFlex Integration</b>	<b>If connecting to a PowerFlex Cluster, refer to the <a href="#">Design Guide</a>.</b>	

# Node information

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: Broadcom, 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
Azure Local release	Latest Azure Local golden image from Dell Technologies available from the <a href="#">Support Matrix</a> .	
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"> <li>• Operate in temp ranges from -5C to 55C. Rated to MIL 810H and NEBS Level 3.</li> <li>• 'Stackable' and 'rackable' chassis with options to mount on walls or place on shelves when space is at a premium.</li> <li>• Withstand dusty and harsh environments while providing extra physical security with an optional lockable intelligent filtered bezel.</li> </ul>	
Form Factor	1U Rack	2U Rack
<b>PowerFlex Integration</b>	<b>If connecting to a PowerFlex Cluster (AX-4520c only), refer to the <a href="#">Design Guide</a>.</b>	



## Key Differentiators & Features

Why Dell for Azure?	Core Benefit
<b>Microsoft Premier Solution</b>	Guarantees the deepest integration and a Microsoft-native management experience.
<b>Perpetual OEM Licensing</b>	Included with the initial purchase—you get Azure Local software and Unlimited Windows Server Datacenter VMs for the lifetime of the hardware.
<b>Full-Stack Automation</b>	Lifecycle management is handled by Azure Update Manager with integrated Dell tools, automating updates from firmware to drivers and Windows security policy.
<b>Scalable AX Nodes</b>	Flexible configurations that scale from a single edge machine up to a 16-node cluster.
<b>Edge-Ready Resilience</b>	Includes the ruggedized AX-4000 for reliable, high-performance computing in harsh remote and branch office environments.
<b>Independent Storage</b>	Use Dell PowerFlex software-defined storage to scale capacity linearly and independently of compute resources.
<b>Unified Monitoring</b>	Dell OpenManage integrates directly into Azure services, pushing hardware alerts to Azure Monitor and policy definitions to Azure Policy.
<b>Single-Contact Support</b>	Dell ProDeploy and ProSupport Services provide professional onsite deployment and streamlined technical support for the entire stack.

## Connect with the Hybrid Cloud Experts

Talk to the specialists at Insight today to design and deploy your Dell AX System for Azure Local.