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

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: - 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: 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	(GPUs are not supported on All flash chassis with rear storage.) - 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
Azure Local release	Latest Azure Local golden image from Dell Technologies available from the Support Matrix.			
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 5th 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: - PCIe (required): 1-3 - OCP 3.0 (optional) - Integrated LOM: 2 x 1GbE Broadcom 5720 (used for factory imaging only, not supported for customer use cases) 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 - NVIDIA Ampere A2 SW, PCIe, 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 Support Matrix.	
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	
PowerFlex Integration	**If connecting to a PowerFlex Cluster, refer to the** Design Guide**.**	

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	- Integrated LOM
	  - Intel E823-C LOM quad port 10/25 GbE
	
	- PCIe: None
		- Integrated LOM
		  - Intel E823-C LOM quad port 10/25 GbE
		
		- PCIe: 1-2
		  - 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	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 Support Matrix.	
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	
Environmental	Purpose-built and ruggedized for edge deployments: • 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 (AX-4520c only), refer to the Design Guide.**	

Key Differentiators & Features

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

Insight.

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