Dell AX System for Microsoft Windows Server

Dell and Microsoft certified and validated solution with end-to-end support

Dell AX System for Microsoft Windows Server is a validated hyperconverged infrastructure solution that delivers the software-defined features of Microsoft Windows Server like Hyper-V and Storage Spaces Direct on an intelligent hardware foundation. You can use familiar on-premises systems management software like Windows Admin Center and System Center to manage your clusters.

Key Features:

- Windows Server 2022 delivers a feature set that includes data deduplication, increased scalability, mirror accelerated parity, cluster sets and persistent memory support.

- AX nodes from Dell offer deliberate, flexible, and factory-ready configurations to meet the performance and capacity requirements of any workload. The ruggedized AX-4000 is ideal for edge locations with challenging environmental conditions.

- Dell OpenManage Integration with Microsoft Windows Admin Center (OMIMSWAC) and System Center Virtual Machine Manager (SCVMM) simplify management, configuration and monitoring.

> "The simplification of life cycle management for AX nodes from Dell AX System for Microsoft Windows Server is a game changer. This takes away all the hard work through a tested and validated catalog, reducing the time to complete from a few days to hours."
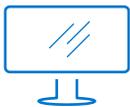>
> Terry Storey
>
> Chief Cloud Officer, Acuutech

- Purchase Windows Server 2022 OEM directly from Dell and save 31% on average versus the cost of a volume license. Save 86% on the deployment time with this pre-installed software solution.

- Dell ProDeploy and Dell ProSupport services deliver professional onsite deployment and single point of contact technical support.

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: - 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			
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
Operating System	Microsoft Windows Server 2022 (factory preinstalled)			
Out of Band Management	Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliant			
Integrations	Dell OpenManage Integration with Windows Admin Center Dell OpenManage Enterprise Integration for Microsoft System Center Operations Manager Dell OpenManage Enterprise Integration for Microsoft System Center Virtual Machine Manager and Microsoft Configuration Manager			
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	- 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: 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	Microsoft Windows Server 2022 (factory preinstalled)	
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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

Learn more about Dell AX System for
Microsoft Windows Server

Contact a Dell Expert
1-866-438-622

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