DELL Technologies

Specification Sheet

Dell APEX Cloud Platform for Microsoft Azure

Dell APEX Cloud Platform for Microsoft Azure empowers organizations to unlock innovation with a consistent Azure experience across their IT environments. Through extensive integrations and numerous automations, the APEX Cloud Platform allows IT organizations to simplify app modernization and accelerate DevOps.

It is the first offer for Premier Solutions for Microsoft Azure Stack HCI, a new category in the Azure Stack HCI catalog reserved for key partners with the greatest levels of engagement with Microsoft and deepest integrations into familiar Microsoft management tools.

The platform enhances Azure operations by providing consistent management and operations with centralized Azure tools, while mitigating security and compliance risks with an intrinsic approach to security that extends Azure governance across all deployment environments.

Collaboratively engineered by Dell and Microsoft to optimize Azure hybrid cloud

Key Features of Dell APEX Cloud Platform for Microsoft Azure

- Intelligently designed MC nodes from Dell offer:
  - Initial deployment automation, full-stack lifecycle management, and ongoing infrastructure operations through Dell APEX Cloud Platform Foundation Software
  - Flexible configurations for varying application performance, capacity, or location needs
  - Cluster scalability from 1 to 16 nodes
  - Single-node clusters for remote, edge or branch projects, very sensitive to costs and that may tolerate the resiliency of a single server

> "Microsoft and Dell are simplifying hybrid cloud management with an integrated solution that gives customers consistent operations across the Azure public cloud and their on-premises and edge environments. Dell APEX Cloud Platform for Microsoft Azure provides native integration of Dell's differentiated infrastructure platforms and management software with Azure Arc and Arc-enabled services like Azure Stack HCI and AKS for a unified experience from cloud to edge."
>
> Bernardo Caldas
> Microsoft - Corporate Vice President, Azure Edge PM

- Dell APEX Cloud Platform Foundation Software integrates with Microsoft Windows Admin Center and the Azure Portal, leveraging familiar tools that provide a simple, consistent, centralized mechanism for operating on-premises, edge and public Azure deployments.
- Integration with the Azure portal enables easy extension of security and governance policies to the Dell APEX Cloud Platform for Microsoft Azure.
- Azure Arc-enabled services empower IT to simplify application modernization and innovate faster.
- The Secure Connect Gateway (SCG) creates a trustable platform to handle infrastructure and call home events, create service requests and deliver remote support for troubleshooting.
- Dell ProDeploy and Dell ProSupport services deliver professional onsite deployment and one contact technical support.

MC-760

Storage Configuration	All Flash	Hybrid	
	All Flash (All-SSD)	Hybrid (SSD + HDD)	Hybrid (NVMe + HDD)
Chassis Configurations	24 drives: 24 x 2.5” front or 28 drives: 24 x 2.5” front bay drives + 4 x 2.5” rear	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	Up to two dual socket Intel Sapphire Rapids 4th Generation EP Processors (Silver/Gold/Platinum options)		
Memory	128 GB to 4 TB DDR4 (Up to 32 x DDR5 RDIMMs 4800 MT/s) (16 or 32 DIMM optimal Population)		
Storage controller	Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID)	Internal HBA 355i (FH) 12Gbps SAS HBA Controller (NON-RAID)	Internal HBA 355i (LP) 12Gbps SAS HBA Controller (NON-RAID)
Storage - OS Boot	BOSS N1 with dual hot-plug M.2 NVMe 960GB in RAID1		
Storage for Cache Min/Max RI = Read Intensive MU = Mixed Use WI = Write Intensive	-	Min: 2 x 1.6TB = 3.2 TB Max: 4 x 6.4TB = 25.6 TB 1.6, 3.2, or 6.4 TB SAS/vSAS MU	Min: 2 x 1.6TB = 3.2 TB Max: 4 x 6.4TB = 25.6 TB 1.6, 3.2, or 6.4 TB NVMe MU
Storage for Capacity Min/Max RI = Read Intensive MU = Mixed Use WI = Write Intensive	Min: 4 x 800GB = 3.2 TB Max: 28 x 7.68TB = 215 TB - Options for SAS/vSAS - RI devices at >1.92 TB - MU => 800 GB - WI capacity at 800 GB	Min: 4 x 2 TB = 8 TB Max: 12 x 20 TB = 240 TB - Up to 12 x 4/8/10/12/16/20 TB SAS/NLSAS 3.5” HDD	Min: 4 x 2 TB = 8 TB Max: 12 x 20 TB = 240 TB - Up to 12 x 4/8/10/12/16/20 TB SAS/NLSAS 3.5” HDD
Min/Max Raw Storage	3.2 to 215 TB	8 to 240 TB	8 to 240 TB
Network cards	- Add-in-Card (required): 1-4 - Intel: E810-XXVDA2 dual port 1/10/25GbE SFP28, E810-XXVDA4 quad port 1/10/25GbE SFP28, E810-CQDA2 dual port 100GbE QSFP56 (iWARP, RoCE) - Mellanox: ConnectX-6 LX dual port 10/25GbE SFP28, ConnectX-6 DX dual port 100GbE QSFP56 (RoCE) - OCP NIC 3.0 Card (optional) - Intel: E810-XXVDA2 dual port 1/10/25GbE SFP28, E810-XXVDA4 quad port 1/10/25GbE SFP28 (iWARP, RoCE) - Mellanox: ConnectX-6 LX dual port 10/25 GbE SFP28 (RoCE) - Integrated LOM: 2 x 1 GbE Base-T Broadcom 5720 (used for factory imaging only, not supported for customer use cases)		
GPU DW = Double Wide SW = Single Wide	GPU capable: up to 4 x SW GPU or 2 x DW GPU (All flash 28 drive configuration not GPU capable) - NVIDIA Ampere A2 SW, 60W, 16GB Passive - NVIDIA Ampere A16 DW, 250W, 64GB Passive - NVIDIA Ampere A30 DW, 165W, 24GB Passive - NVIDIA Ampere A40 DW, 300W, 48GB Passive	Not supported	Not supported
Operating System	Microsoft Azure Stack HCI, version 22H2 (factory preinstalled)		
Out of Band Management	Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliant		
Integrations	Dell APEX Cloud Platform Foundation Software Dell APEX Cloud Platform extension in 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		

MC-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	Up to two dual socket Intel Sapphire Rapids 4th Generation EP Processors (Silver/Gold/Platinum options)	
Memory	128 GB to 4 TB DDR4 (Up to 32 x DDR5 RDIMMs 4800 MT/s) (16 or 32 DIMM optimal Population)	
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	
Storage for Cache Min/Max RI = Read Intensive MU = Mixed Use WI = Write Intensive	-	-
Storage for Capacity Min/max RI = Read Intensive MU = Mixed Use WI = Write Intensive	Minimum: 4 x 800GB = 3.2 TB Maximum: 10 x 7.68TB = 76.8 TB - Options for SAS/vSAS devices - RI devices at >1.92 TB - MU => 800 GB	Minimum: 4 x 1.6TB = 6.4 TB Maximum: 10 x 15.36TB = 153.6 TB - RI devices at >1.92 TB - MU => 800 GB
Min/Max Raw Storage	3.2 to 76.8 TB	6.4 to 153.6 TB
Network cards	- Add-in-Card (required): 1-3 - Intel: E810-XXVDA2 dual port 1/10/25GbE SFP28, E810-XXVDA4 quad port 1/10/25GbE SFP28, E810-CQDA2 dual port 100GbE QSFP56 (iWARP, RoCE) - Mellanox: ConnectX-6 LX dual port 10/25GbE SFP28, ConnectX-6 DX dual port 100GbE QSFP56 (RoCE) - OCP NIC 3.0 Card (optional) - Intel: E810-XXVDA2 dual port 1/10/25GbE SFP28, E810-XXVDA4 quad port 1/10/25GbE SFP28 (iWARP, RoCE) - Mellanox: ConnectX-6 LX dual port 10/25 GbE SFP28 (RoCE) - Integrated LOM: - 2 x 1 GbE Base-T Broadcom 5720 (used for factory imaging only, not supported for customer use cases)	
GPU DW = Double Wide SW = Single Wide	GPU capable: up to 2 x SW GPU - NVIDIA Ampere A2 SW, PCIe, 60W, 16GB Passive	
Operating System	Microsoft Azure Stack HCI, version 22H2 (factory preinstalled)	
Out of Band Management	Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliant	
Integrations	Dell APEX Cloud Platform Foundation Software Dell APEX Cloud Platform extension in 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	

Learn more about Dell APEX Cloud Platform for Microsoft Azure

Contact a Dell Expert
1-866-438-622