D&LLTechnologies

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 Local, a new 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.

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
 - Instance scalability from 1 to 16 machines
 - Single-machine instances for remote, edge or branch projects, very sensitive to costs and that may tolerate the resiliency of a single machines

"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 Local 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.
- Azure management and governance services enable fleet management at scale of many Dell APEX Cloud Platform for Microsoft Azure deployments across distributed locations.
- 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 | All Flash | | Hybrid | | |
|--|---|---|---|---|--|
| Configuration | 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 Rapid | ds) or 5 th Gen (Emerald Rapids) | Intel Xeon Scalable processors | s 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-pl | ug 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: - PCle (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 Al nodes populated with 256GB D - NVIDIA Ampere A2 SW, 6 - NVIDIA Ampere A16 DW, - NVIDIA Ampere A30 DW, - NVIDIA Ampere A40 DW, - NVIDIA Ada Lovelace, L4 - NVIDIA Ada Lovelace, L4 - NVIDIA Ada Lovelace, L4 | II flash chassis with rear storage DIMMs.) 50W, 16GB Passive, up to 6 250W, 64GB Passive, up to 2 165W, 24GB Passive, up to 2 300W, 48GB Passive, up to 2 , SW, 72W, 24GB Passive, up to 0, DW, 300W, 48GB Passive, u 0S, DW, 350W, 48GB Passive, | e or MC Not supported o 4 p to 2 up to 2 | Not supported | |
| Operating System | Microsoft Azure Local, version 2411 or later (factory staged) | | | | |
| 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, Dell APEX Cloud F | Platform MC-760 Hardware Rec | uirements and Specifications | | |
| | | | | | |

PowerFlex Integration

If connecting to a PowerFlex Cluster refer to the <u>Design Guide</u>.

| Storage Configuration All Flash (All-SD) All Flash (All-NVMa) Chassis 10 x 2.5° XAS Chassis 10 x 2.5° NVMe Chassis Up to 10 NVMe front drives Configurations Up to 10 SSD front drives (SAS/VSAS) Up to 10 NVMe front drives Processors Processors Two 4th Gen (Sapphire Rapids) or 5 th Gen (Emerald Rapids) Intel Xeon Scalable processors with up to 20 cores per processor Memory 128 GB to 8 TB (Up to 32 x DDFs DDIMS, speeds up to 5600 MT/s) None Storage controller Internal HBA 3551 12Gbps SAS HBA Controller (NON-RAID) None Storage for Cache | MC-660 | | | | | |
|--|--|---|--|--|--|--|
| Chansis 10 x 2.5° XAS Chassis 10 x 2.5° VIVMe Chassis Processors Nov 4th Cosphiler Repide) or 5°° Gen (Emerald Rapids) Intel Xeon Scaleboorsors with up to 52 cores per processors Memory 12 G G B TE I (Up to 32 x DDR 5 RDIMS, speeds up to 6000 MT/s) Storage controller Internal HBA 3561 12 Gbps SAS HBA Controller (NON-RAID) Nore Storage for Cache GOSS N1 with dual hot-JUM 2 WVMe 960GB in RADD Drive Count and briving for Cache Minimum: 2 x 800GB = 1.6 TB Maximum: 10 x 7.68 TB 7.68 TB Minimum: 2 x 960GB = 1.92 TB Maximum: 10 x 7.68 TB 7.68 TB Prive Count and briving for Cache Minimum: 2 x 800GB = 1.6 TB Maximum: 10 x 7.68 TB 7.68 TB Minimum: 2 x 960GB = 1.92 TB Maximum: 10 x 7.68 TB 7.68 TB Prive Count and briving for Cache Minimum: 2 x 960GB = 1.92 TB Maximum: 10 x 7.68 TB 7.68 TB Minimum: 2 x 960GB = 1.92 TB Maximum: 10 x 7.68 TB 7.68 TB Prive Count and briving for Cache Form factors: | Storage Configuration | All Flash (All-SSD) | All Flash (All-NVMe) | | | |
| Processors Two 4th Gen (Sapphire Rapids) or 5 ^e Gen (Emeraid Rapids) Intel Xeon Scalable processors with up to 52 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 3551 12Gbps SAS HBA Controller (NON-RAID) None Storage - OS Boot BOSS N1 with dual hot-plug M.2 NVMe 960GB in RAID1 None Drive Count and Storage for Cache Minimum: 2 x 800GB = 1.6 TB Maximum: 10 x 7.68TB = 76.8 TB Minimum: 2 x 800GB = 1.92 TB Maximum: 10 x 7.68TB = 76.8 TB Drive Count and Storage for Capacity 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: Intel and NVIDA Poperation3 (speeds: 10, 25, and 100GbE RDM aprotool support: IWARP, RoCE RDM aprotool support: IWARP, RoCE GPU OPU capable of up 2 x SW GPU VIDIA Angere A2 SW, PCIe, 60W, 16GB Passive - NVIDIA Anda Lovelace, L4, SW, 72W, 24GB Passive - | 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 | | | |
| Memory 128 GB to 8 TB (Up to 32 x DDRS RDIMMs, speeds up to 5600 MTs) Storage controller Memory None Storage - OS Boot BOSS N1 with dual hot-plug X.2 NVMe 960G Bin RAID Drive Count and bringe for Cache Minimum: 2 x 800G B = 1.6 TB Maximum: 10 x 7.68TB = 76.8 TB Minimum: 2 x 960G B = 1.9 2 TB Maximum: 10 x 7.68TB = 76.8 TB Drive Count and bringe for Cache Minimum: 2 x 800G B = 1.6 TB Maximum: 10 x 7.68TB = 76.8 TB Minimum: 2 x 960G B = 1.9 2 TB Maximum: 10 x 7.68TB = 76.8 TB Storage for Cache Forn factors: - PCIe (required): 1.3 - OCP 30 (optional) Forn factor GPU Develop Wemory Bringe and Develop A cache VGPU - NVIDIA Ampere A 2 SW, PCIe, 60W, 16GB Passive - NVIDIA Ampere A 2 SW, PCIe, 60W, 16GB Passive - NVIDIA Ampere A 2 SW, PCIe, 60W, 16GB Passive - NVIDIA Ampere A 2 SW, PCIe, 60W, 16GB Passive - NVIDIA Ampere A 2 SW, PCIe, 60W, 16GB Passive - NVIDIA Ampere A 2 SW, PCIe, 60W, 16GB Passive - NVIDIA Ampere A 2 SW, PCIe, 60W, 16GB Passive - NVIDIA Ampere A 2 SW, PCIe, 60W, 16GB Passive - NVIDIA Amp | Processors | Two 4th Gen (Sapphire Rapids) or 5th Gen (Emerald Rapids) Intel Xeon Scalable processors with up to 52 cores per processor | | | | |
| Storage controller Internal HBA 3551 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 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 7.68TB = 76.8 TB Drive Count and Storage for Capacity Minimum: 2 x 900GB = 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: - PCIc (required): 1-3 - OCP 3.0 (optional) - Nore 200 (optional) PCIC (required): 1-3 - OCP 3.0 (optional) Network cards GPU POT Count: Dual-port and quad-port Operational speeds: 10, 25, and 100GbE RDMA protocol support: WARP. RoCEI GPU capable of up to 2 x SW GPU NVIDIA Ampere A2 SW, PCIe, 60W, 16GB Passive - NVIDIA Ampere | Memory | 128 GB to 8 TB (Up to 32 x DDR5 RDIMMs, speeds up to 5600 MT/s) | | | | |
| Storage - OS Boot BOSS N1 with dual hot-jut ANVHe 960GB in RADD Brive Count and bindmax | Storage controller | Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID) | None | | | |
| Drive Count and Storage for Cache 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 Drive Count and Storage for Capacity 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: Intel and NVIDIA Port Count: Dual-port and quad-port Operational speeds: 10, 25, and 100GbE RDMA protocol support: WARP, RoCE GPU DW = Outble Wide Sw = Single Wide GPU capable of up to 2 x SW GPU - NVIDIA Ampere A2 SW, PCIe, 60W, 16GB Passive - NVIDIA Ampere A2 SW, PCIe, 60W, 16GB Passive - NVIDIA Ada Lovelace, L4, SW, 72W, 24GB Passive - NVIDIA Ada Lovelace, L4, SW, 72W, 24GB Passive - NVIDIA Ada Lovelace, L4, SW, 72W, 24GB Passive - NVIDIA Ada Lovelace, Ch4, SW, 72W, 24GB Passive - NVIDIA Ada Lovelace, | Storage - OS Boot | BOSS N1 with dual hot-plug M.2 NVMe 960GB in RAID1 | | | | |
| Drive Count and binimum:Minimum: 2 x 800GB = 1.6 TB Maximum: 10 x 7.68TB = 76.8 TBMinimum: 2 x 960GB = 1.92 TB Maximum: 10 x 15.36TB = 153.6 TBPresent and a server and a serve | Drive Count and Storage for Cache Min/Max | - | - | | | |
| Form factors: - PCle (required): 1-3 - OCP 3.0 (optional) - Integrated LOM: 2 x 16bE 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, RoCEGPU DW= DW= DW= Single WideGPU capable of up to 2 x SW GPU - NVIDIA Ampere A2 SW, PCle, 60W, 16GB Passive - NVIDIA Ada Lovelace, L4, SW, 72W, 24GB Passive - NV | 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 | | | |
| GPU DW = Double WideGPU capable of up to 2 x SW GPU - NVIDIA Ampere A2 SW, PCIe, 60W, 16GB Passive - NVIDIA Ada Lovelace, L4, SW, 72W, 24GB PassiveOperating SystemMicrosoft Azure Local, version 2411 or later (factory staged)Out of Band ManagementIntegrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliantIntegrationsDell APEX Cloud Platform Foundation Software Dell APEX Cloud Platform extension in Microsoft Windows Admin CenterServicesProDeploy, 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 GatewaySecurityTrusted Platform Module 2.0Power SuppliesDual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800 WForm Factor1U Rack, Dell APEX Cloud Platform MC-660 Hardware Requirements and Specifications | Network cards | Form factors: - PCle (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: Intel and NVIDIA Port Count: Dual-port and quad-port Operational speeds: 10, 25, and 100GbE RDMA protocol support: iWARP, RoCE | | | | |
| Operating SystemMicrosoft Azure Local, version 2411 or later (factory staged)Out of Band ManagementIntegrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliantIntegrationsDell APEX Cloud Platform Foundation Software Dell APEX Cloud Platform extension in Microsoft Windows Admin CenterServicesProDeploy, 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 GatewaySecurityTrusted Platform Module 2.0Power SuppliesDual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800 WForm Factor1U Rack, Dell APEX Cloud Platform MC-660 Hardware Requirements and Specifications | 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 | | | | |
| Out of Band ManagementIntegrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliantIntegrationsDell APEX Cloud Platform Foundation Software Dell APEX Cloud Platform extension in Microsoft Windows Admin CenterServicesProDeploy, 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 GatewaySecurityTrusted Platform Module 2.0Power SuppliesDual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800 WForm Factor1U Rack, Dell APEX Cloud Platform MC-660 Hardware Requirements and Specifications | Operating System | Microsoft Azure Local, version 2411 or later (factory staged) | | | | |
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| ServicesProDeploy, 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 GatewaySecurityTrusted Platform Module 2.0Power SuppliesDual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800 WForm Factor1U Rack, Dell APEX Cloud Platform MC-660 Hardware Requirements and Specifications | Integrations | Dell APEX Cloud Platform Foundation Software Dell APEX Cloud Platform extension in Microsoft Windows Admin Center | | | | |
| SecurityTrusted Platform Module 2.0Power SuppliesDual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800 WForm Factor1U Rack, Dell APEX Cloud Platform MC-660 Hardware Requirements and Specifications | 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 | | | | |
| Power SuppliesDual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800 WForm Factor1U Rack, Dell APEX Cloud Platform MC-660 Hardware Requirements and Specifications | Security | Trusted Platform Module 2.0 | | | | |
| Form Factor 1U Rack, <u>Dell APEX Cloud Platform MC-660 Hardware Requirements and Specifications</u> | Power Supplies | Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/1800 W | | | | |
| | Form Factor | 1U Rack, Dell APEX Cloud Platform MC-660 Hardware Requirements and Specifications | | | | |

PowerFlex Integration

If connecting to a PowerFlex Cluster refer to the Design Guide.

| MC-4000x MC-4510c & MC-4520c | | | | | |
|--|---|--|--|--|--|
| Model | MC-4510c – All-NVMe (1U sled) | MC-4520c – All-NVMe (2U sled) | | | |
| Chassis Configurations | MC-4000r (Rackable): 1-4 sleds MC-4000z (Flexible/Stackable): 1-2 sleds | MC-4000r (Rackable): 1-2 sleds MC-4000z (Flexible/Stackable): 1 sled | | | |
| Processors | Single Socket Intel Xeon Ice Lake | e 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 PCle: None | Integrated LOM Intel E823-C LOM quad port 10/25 GbE PCle: 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 or 1 x DW - NVIDIA Ampere A2 SW, 60W, 16GB Passive, up to 2 - NVIDIA Ampere A30 DW, 165W, 24GB Passive, up to 1 | | | |
| Operating System | Microsoft Azure Local, version 2411 or later (factory staged) | | | | |
| Out of Band Management | Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter | | | | |
| 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 2U Rack Dell APEX Cloud Platform MC-4000x MC-4510c & MC-4520c Hardware Requirements and Specifications | | | | |





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