# Dell Integrated System for Microsoft Azure Stack HCI

## Dell - Microsoft certified and validated HCI Solution with end-to-end support

Dell Integrated System for Microsoft Azure Stack HCI delivers a fully productized, validated and supported hyperconverged (HCI) solution that enables organizations to modernize their infrastructure for improved application uptime and performance, simplified management and operations, and lower total cost of ownership. Azure Stack HCI combines the software-defined compute, storage and networking features of Microsoft Azure Stack HCI OS with AX nodes from Dell to offer the high performance, scalable and secure foundation needed for a software-defined infrastructure. Comprehensive management through Dell OpenManage Integration with Windows Admin Center, rapid time to value with Dell ProDeploy options, and solution-level Dell ProSupport complete this modern portfolio.

## Azure Stack HCI OEM license

Three Microsoft services bundled into a single perpetual license, including: Azure Stack HCI 23H2, Unlimited Windows Server 2022 DC edition guest VMs and Azure Kubernetes Services.

## Azure Stack HCI OS subscription available through Dell Cloud Solution Provider (CSP) program

New and existing customers can purchase their Azure subscription from Dell (or transfer to Dell) to activate their Azure Stack HCI OS. Additional Azure services will be supported in the future.

**Key Features of Azure Stack HCI:**

- AX nodes from Dell offer:
  - Flexible configurations for varying application performance, capacity or location needs
  - Cluster scalability from 2 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
  - Pre-configured and optimized features such as caching and storage tiering
  - Hardware innovations such as RDMA networking and high-performance SSD and NVMe drives

> "Dell did the work to build their nodes to have the maximum amount of power and storage in a 2U device that conforms and is on catalog for Storage Spaces Direct. It was really an easy design to put forward and to consolidate our existing Hyper-V virtual machines on to."
>
> Lee Harrison
> Microsoft Solutions Architect, Fasthosts

- Azure Stack HCI OS delivers new improved feature set including data deduplication, increased scalability, mirror accelerated parity and cluster sets.

- Dell OpenManage Integration with Microsoft Windows Admin Center (OMIMSWAC) simplifies management, configuration and monitoring.

- Dell Networking 10/25/100GbE switches are fully qualified to enable a complete hyperconverged infrastructure solution.

- Dell ProDeploy and Dell ProSupport services deliver professional onsite deployment and one 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 drives + 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 dual socket Intel Sapphire Rapids (Gen 4) or Emerald Rapids (Gen 5) EP Processors (Silver/Gold/Platinum) | | | |
| Memory | 128 GB to 8 TB (Up to 32 x DDR5 RDIMMs 5600 MT/s) | | | |
| Storage controller | Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID) | None | 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<br>RI = Read Intensive<br>MU = Mixed Use<br>WI = Write Intensive | - | - | Min: 2 x 1.6TB = 3.2 TB<br>Max: 4 x 6.4TB = 25.6 TB<br><br>1.6, 3.2, or 6.4 TB SAS/vSAS MU | Min: 2 x 1.6TB = 3.2 TB<br>Max: 4 x 6.4TB = 25.6 TB<br><br>1.6, 3.2, or 6.4 TB NVMe MU |
| Storage for Capacity Min/Max<br>RI = Read Intensive<br>MU = Mixed Use<br>WI = Write Intensive | Min: 4 x 800GB = 3.2 TB<br>Max: 28 x 7.68TB = 215 TB<br>- Options for SAS/vSAS<br>- RI devices at >1.92 TB<br>- MU => 800 GB<br>- WI capacity at 800 GB | Min: 4 x 1.6 TB = 6.4 TB<br>Max: 24 x 15.36 = 368 TB<br><br>- RI devices at >1.92 TB<br>- MU => 800 GB | Min: 4 x 2 TB = 8 TB<br>Max: 12 x 20 TB = 240 TB<br><br>- Up to 12 x 4/8/10/12/16/20 TB SAS/NLSAS 3.5" HDD | Min: 4 x 2 TB = 8 TB<br>Max: 12 x 20 TB = 240 TB<br><br>- 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 | 6.4 to 368 TB | 8 to 240 TB | 8 to 240 TB |
| Network cards | - Add-in-Card (required): 1-4<br>  - 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)<br>  - NVIDIA: ConnectX-6 LX dual port 10/25GbE SFP28/10GBase-T, ConnectX-6 DX dual port 100GbE QSFP56 (RoCE)<br>- OCP NIC 3.0 Card (optional)<br>  - Intel: E810-XXVDA2 dual port 1/10/25GbE SFP28, E810-XXVDA4 quad port 1/10/25GbE SFP28 (iWARP, RoCE)<br>  - NVIDIA: ConnectX-6 LX dual port 10/25 GbE SFP28/10GBase-T (RoCE)<br>- Integrated LOM:<br>  2 x 1 GbE Base-T Broadcom 5720 (used for factory imaging only, not supported for customer use cases) | | | |
| GPU<br>DW = Double Wide<br>SW = Single Wide | (All flash 28 drive configuration not GPU capable)<br>- NVIDIA Ampere A2 SW, 60W, 16GB Passive, up to 4<br>- NVIDIA Ampere A16 DW, 250W, 64GB Passive, up to 2<br>- NVIDIA Ada Lovelace, L4, SW, 72W, 24GB Passive, up to 4<br>- NVIDIA Ada Lovelace, L40, DW, 300W, 48GB Passive, up to 2<br>- NVIDIA Ada Lovelace, L40S, DW, 350W, 48GB Passive, up to 2 | | Not supported | Not supported |
| Operating System | Microsoft Azure Stack HCI, version 23H2 (factory preinstalled), 22H2 (optional) | | | |
| Out of Band Management | Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter<br>IPMI 2.0 compliant | | | |
| Integrations | Dell OpenManage Integration with Windows Admin Center | | | |
| Services | ProDeploy, ProDeploy Plus, ProSupport, ProSupport Plus, optional Dell Infrastructure and Consulting services<br>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<br>AX-4000z (Flexible/Stackable): 1-2 sleds | AX-4000r (Rackable): 1-2 sleds<br>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 | |
| Storage for capacity Min/Max<br>RI = Read Intensive<br>MU = Mixed Use<br>WI = Write Intensive | Default Internal M.2 NVMe Riser<br>4 x 800GB MU or<br>4 x 1.92TB RI or<br>4 x 3.84TB RI | Default Internal M.2 NVMe Riser [optional + 2 PCIe cards]<br>4 x 800GB MU [optional +8 x 800GB MU] or<br>4 x 1.92TB RI [optional +8 x 1.92TB RI] or<br>4 x 3.84TB RI [optional +8 x 3.84TB R] |
| Storage for Capacity Min/max<br>RI = Read Intensive<br>MU = Mixed Use<br>WI = Write Intensive | Minimum: 4 x 800GB = 3.2 TB<br>Maximum: 4 x 3.84TB = 15.36 TB<br>- RI devices at >1.92 TB<br>- MU => 800 GB | Minimum: 4 x 800GB = 3.2 TB<br>Maximum: 4 x 3.84TB + 8 x 3.84TB = 46.08 TB<br>- RI devices at >1.92 TB<br>- MU => 800 GB |
| Min/Max Raw Storage | 3.2 to 15.36 TB | 3.2 to 46.08 TB |
| Network cards | - Integrated LOM<br>  - Intel E823-C LOM quad port 1/10/25 GbE SFP28<br><br>- Add-in-Card (PCIe): None | - Integrated LOM<br>  - Intel E823-C LOM quad port 1/10/25 GbE SFP28<br><br>- Add-in-Card (PCIe): 1-2<br>  - Intel: E810C2P dual port 100GbE QSFP56, E810XXV2P dual port 10/25GbE SFP or SFP28, E810XXV4P quad port 10/25GbE SFP or SFP28 (iWARP, RoCE)<br>  - Mellanox: ConnectX-6 LX dual port 10/25GbE SFP or SFP28, ConnectX-6 DX dual port 100GbE QSFP56 (RoCE) |
| GPU<br>DW = Double Wide<br>SW = Single Wide | NA | GPU capable: up to 2 x SW<br>- NVIDIA Ampere A2 SW, 60W, 16GB Passive<br>- NVIDIA Ada Lovelace L4 SW, 72W, 24GB Passive |
| Operating System | Microsoft Azure Stack HCI, version 23H2 (factory preinstalled), 22H2 (optional) | |
| Out of Band Management | Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter<br>IPMI 2.0 compliant | |
| Integrations | Dell OpenManage Integration with Windows Admin Center | |
| Services | ProDeploy, ProDeploy Plus, ProSupport, ProSupport Plus, optional Dell Infrastructure and Consulting services<br>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 |

## AX-750

| Storage Configuration | All Flash (All-SSD) | All Flash (All-NVMe) | Hybrid (SSD + HDD) | Hybrid (NVMe + HDD) |
|---|---|---|---|---|
| Chassis Configurations | 24 x 2.5" front bay drives | 24 x 2.5" front bay drives (switched) | 12 x 3.5" drives | 16 drives:12 x 3.5" HDDs + 4 x 2.5" NVMe (rear) |
| Processors | Dual socket Intel Xeon Scalable, Ice Lake EP Processors (Silver/Gold/Platinum options) | | | |
| Memory | 128 GB to 4 TB DDR4 | | | |
| Storage controller | Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID) | None | Internal HBA 355i (FH) 12Gbps SAS HBA Controller (NON-RAID) | Internal HBA 355i (LP) 12Gbps SAS HBA Controller (NON-RAID) |
| Internal Boot Storage | BOSS S2 with Dual M.2 240 GB or 480 GB (RAID 1) | | | |
| Storage for Cache Min/Max<br>RI = Read Intensive<br>MU = Mixed Use<br>WI = Write Intensive | - | - | Min: 2 x 800 GB = 1.6 TB (SAS MU)<br>Max: 4 x 3.84TB = 15.36 TB (SAS/vSAS MU) | Min: 2 x 1.6TB = 3.2 TB<br>Max: 4 x 6.4TB = 25.6 TB<br>(NVMe MU) |
| Storage for Capacity Min/Max<br>RI = Read Intensive<br>MU = Mixed Use<br>WI = Write Intensive | Min: 4 x 800GB = 3.2 TB<br>Max: 24 x 7.68TB = 184 TB<br>- Options for SAS/vSAS<br>- RI devices at >1.92 TB<br>- MU => 800 GB<br>- WI capacity at 800 GB | Min: 4 x 1.6 TB = 6.4 TB<br>Max: 24 x 15.36 = 368 TB<br><br>- RI devices at >1.92 TB<br>- MU => 800 GB | Min: 4 x 2 TB = 8 TB<br>Max: 8 x 20 TB = 160 TB<br><br><br>- 4 or 8 x 2/4/8/12/16/20 TB SAS/NLSAS 3.5" HDD | Min: 4 x 2 TB = 8 TB<br>Max: 12 x 20 TB = 240 TB<br><br><br>- Up to 12 x 2/4/8/12/16/20 TB SAS/NLSAS 3.5" HDD |
| Min/Max Raw Storage | 3.2 to 184 TB | 6.4 to 368 TB | 8 to 160 TB | 8 to 240 TB |
| Network cards | - Add-in-Card (required): 1-4<br>  - Intel: E810-XXV Dual Port 10/25GbE SFP28, E810-CQDA2 Dual Port 100GbE QSFP (RDMA: iWARP, RoCE)<br>  - Mellanox: ConnectX-5 Dual Port 10/25GbE SFP28, ConnectX-6 DX Dual Port 100GbE QSFP56 (RDMA, RoCE)<br>- OCP NIC 3.0 Card (optional)<br>  - Intel: X710 Dual Port 10GbE SFP+, X710 Quad Port 10GbE SFP+, X710-T4L Quad Port 10GbE BASE-T, X710-T2L Dual Port 10GbE BASE-T (Non-Storage Capable)<br>  - Mellanox ConnectX-6 Lx Dual Port 10/25GbE SFP28 (Non-Storage Capable)<br>  - Broadcom: 57414 Dual Port 10/25GbE SFP28, 57504 Quad Port 10/25GbE SFP28, 57416 Dual Port 10GbE BASE-T, 57412 Dual Port 10GbE SFP+ (Non-Storage Capable)<br>- Integrated LOM:<br>  2 x 1 GbE Base-T Broadcom | | | |
| GPU<br>DW = Double Wide<br>SW = Single Wide | GPU capable: up to 2 x DW GPU or 2 x SW GPU<br>- NVIDIA Ampere A30 DW, PCIe, 165W, 24GB Passive<br>- NVIDIA Ampere A2 SW, PCIe, 60W, 16GB Passive<br>- NVIDIA Ampere A16 DW, PCIe, 250W, 64GB Passive<br>- NVIDIA Ampere A40 DW, PCIe, 300W, 48GB Passive<br>- NVIDIA Tesla T4 SW, PCIe, 70W, 16GB, Passive<br>- NVIDIA Ampere A10 SW, PCIe, 150W, 24GB Passive<br>- NVIDIA Ampere L4 SW, PCIe, 72W, 24GB Passive (APOS) | | Not supported | Not supported |
| Operating System | Microsoft Azure Stack HCI, version 23H2 (factory preinstalled), 22H2 (optional) | | | |
| Out of Band Management | Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter<br>IPMI 2.0 compliant<br>Quick Sync2 (Optional) | | | |
| Integrations | Dell OpenManage Integration with Windows Admin Center | | | |
| Services | ProSupport and ProSupport Plus, ProDeploy, ProDeploy Plus with add-on for Azure Stack HCI<br>Call-routing, phone home, and automated case creation supported with Secure Connect Gateway 5.0<br>Consulting Services for Azure Stack HCI<br>iDRAC Service Module (iSM) | | | |
| Security | Trusted Platform Module 2.0 v3 | | | |
| Power Supplies | Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400/2400 W | | | |
| Form Factor | 2U Rack | | | |

## AX-650

| Storage Configuration | All Flash (All-SSD) | All Flash (All-NVMe) | Hybrid (SSD + HDD) |
|---|---|---|---|
| Chassis Configurations | 10 x 2.5" SAS Chassis<br>Up to 10 SSD front drives (SAS/vSAS) | 10 x 2.5" NVMe Chassis<br>Up to 10 NVMe front drives | 10 x 2.5" SAS Chassis<br>Up to 10 SAS front drives |
| Processors | Dual socket Intel Xeon Scalable, Ice Lake EP Processors (Silver/Gold/Platinum options) | | |
| Memory | 128 GB to 4 TB DDR4 | | |
| Storage controller | Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID) | None | Internal HBA 355i 12Gbps SAS HBA Controller (NON-RAID) |
| Internal Boot Storage | BOSS S2 with Dual M.2 240 GB or 480 GB (RAID 1) | | |
| Storage for Cache Min/Max<br>RI = Read Intensive<br>MU = Mixed Use<br>WI = Write Intensive | - | | Minimum: 1.6 TB<br>  2 x 800 GB MU SAS<br>Maximum: 7.68 TB<br>  2 x 3.84TB MU SAS/vSAS |
| Storage for Capacity Min/max<br>RI = Read Intensive<br>MU = Mixed Use<br>WI = Write Intensive | Minimum: 4 x 800GB = 3.2 TB<br>Maximum: 10 x 7.68TB = 76.8 TB<br>- Options for SAS/vSAS devices<br>- RI devices at >1.92 TB<br>- MU => 800 GB | Minimum: 4 x 1.6TB = 6.4 TB<br>Maximum: 10 x 15.36TB = 153.6 TB<br>- RI devices at >1.92 TB<br>- MU => 800 GB | Minimum: 4 x 2.4 TB = 9.6 TB<br>Maximum: 8 x 2.4 TB = 19.2 TB<br><br>- 4/6/8 x 2.4 TB SAS 10K 2.5" HDDs |
| Min/Max Raw Storage | 3.2 to 76.8 TB | 6.4 to 153.6 TB | 9.6 to 19.2 TB |
| Network cards | - Add-in-Card (required): 1-3<br>  - Intel: E810-XXV Dual Port 10/25GbE SFP28, E810-CQDA2 Dual Port 100GbE QSFP (RDMA: iWARP, RoCE)<br>  - Mellanox: ConnectX-5 Dual Port 10/25GbE SFP28, ConnectX-6 DX Dual Port 100GbE QSFP56 (RDMA, RoCE)<br>- OCP NIC 3.0 Card (optional)<br>  - Intel: X710 Dual Port 10GbE SFP+, X710 Quad Port 10GbE SFP+, X710-T4L Quad Port 10GbE BASE-T, X710-T2L Dual Port 10GbE BASE-T (Non-Storage Capable)<br>  - Mellanox ConnectX-6 Lx Dual Port 10/25GbE SFP28 (Non-Storage Capable)<br>  - Broadcom: 57414 Dual Port 10/25GbE SFP28, 57504 Quad Port 10/25GbE SFP28, 57416 Dual Port 10GbE BASE-T, 57412 Dual Port 10GbE SFP+ (Non-Storage Capable)<br>- Integrated LOM:<br>  - 2 x 1 GbE Base-T Broadcom | | |
| GPU<br>DW = Double Wide<br>SW = Single Wide | GPU capable: up to 2 x SW GPU<br>- NVIDIA Ampere A2 SW, PCIe, 60W, 16GB Passive<br>- NVIDIA Ampere L4 SW, PCIe, 72W, 24GB Passive (APOS) | | |
| Operating System | Microsoft Azure Stack HCI, version 23H2 (factory preinstalled), 22H2 (optional) | | |
| Out of Band Management | Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter<br>IPMI 2.0 compliant<br>Quick Sync2 (Optional) | | |
| Integrations | Dell OpenManage Integration with Windows Admin Center | | |
| Services | ProSupport and ProSupport Plus, ProDeploy, ProDeploy Plus with add-on for Azure Stack HCI<br>Call-routing, phone home, and automated case creation supported with Secure Connect Gateway 5.0<br>Consulting Services for Azure Stack HCI<br>iDRAC Service Module (iSM) | | |
| Security | Trusted Platform Module 2.0 v3 | | |
| Power Supplies | Dual, Hot-plug, Redundant Power Supply (1+1), 1100/1400 W | | |
| Form Factor | 1U Rack | | |

## AX-7525

| Storage Configuration | All Flash (All-NVMe) | All Flash (NVMe + SSD) |
|---|---|---|
| Chassis Configurations | 24 x 2.5" front bay drives<br>16 x 2.5" front bay drives | 24 x 2.5" front bay drives |
| Processors | Dual socket, 2nd / 3rd Gen AMD EPYC (Rome/Milan) Processor | |
| Memory | 128 GB to 2 TB | |
| Storage controller | - | Internal HBA 355i |
| Internal Boot Storage | BOSS S1 with dual M.2 240GB or 480GB (RAID 1) | BOSS S2 with Dual M.2 240 or 480 GB (RAID 1) |
| Storage for Cache<br>RI = Read Intensive<br>MU = Mixed Use<br>WI = Write Intensive | - | 2, 3, 4 or 8 x PCIe Gen 4 NVMe drives<br>1.6/3.2/6.4 TB (MU) |
| Storage for Capacity | 4 – 24 x PCIe Gen 4 NVMe drives:<br>   1.6/3.2/6.4 TB (MU)<br>   3.84/7.68/15.36 TB (RI) | 4 – 16 x SAS/vSAS/SATA SSDs:<br>   960/1.92/3.84/7.68 TB SAS/vSAS/SATA (RI)<br>   800/1600/3200 SAS (MU)<br>   960/1.92/3.84 TB vSAS/SATA (MU) |
| Min/Max Raw Storage | 6.4 to 368.64 TB | 3.2 to 122.88 TB |
| Network cards | - Add-in-Card (required): 1-4<br>  - Intel: E810-XXV Dual Port 10/25GbE SFP28, E810-CQDA2 Dual Port 100GbE QSFP (RDMA: iWARP, RoCE)<br>  - Mellanox: ConnectX-5 Dual Port 10/25GbE SFP28, ConnectX-6 DX Dual Port 100GbE QSFP56 (RDMA, RoCE)<br>- OCP NIC 3.0 Card (optional)<br>  - Intel: X710 Dual Port 10GbE SFP+, X710 Quad Port 10GbE SFP+ (Non-Storage Capable)<br>  - Mellanox ConnectX-6 Lx Dual Port 10/25GbE SFP28 (Non-Storage Capable)<br>  - Broadcom: 57414 Dual Port 10/25GbE SFP28, 57416 Dual Port 10GbE BASE-T (Non-Storage Capable)<br>- Integrated LOM:<br>  On-Board Broadcom 5720 Dual Port 1Gb LOM | |
| GPU<br>DW = Double Wide<br>SW = Single Wide | GPU capable: up to 3 x DW GPU or 3 x SW GPU    (No GPU support for All-NVMe 24 drive configurations)<br>  - NVIDIA Ampere A30 DW, PCIe, 165W, 24GB Passive<br>  - NVIDIA Ampere A2 SW, PCIe, 60W, 16GB Passive<br>  - NVIDIA Ampere A16 DW, PCIe, 250W, 64GB Passive<br>  - NVIDIA Ampere A40 DW, PCIe, 300W, 48GB Passive<br>  - NVIDIA Tesla T4 SW, PCIe, 70W, 16GB, Passive<br>  - NVIDIA Ampere A10 SW, PCIe, 150W, 24GB Passive<br>  - NVIDIA Ampere L4 SW, PCIe, 72W, 24GB Passive | |
| Operating System | Microsoft Azure Stack HCI, version 23H2 (factory preinstalled), 22H2 (optional) | |
| Out of Band Management | Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter<br>IPMI 2.0 compliant<br>Quick Sync2 (Optional) | |
| Integrations | Dell OpenManage Integration with Windows Admin Center | |
| Services | ProSupport and ProSupport Plus, ProDeploy, ProDeploy Plus with add-on for Azure Stack HCI<br>Call-routing, phone home, and automated case creation supported with Secure Connect Gateway 5.0<br>Consulting Services for Azure Stack HCI<br>iDRAC Service Module (iSM) | |
| Security | Trusted Platform Module 2.0 v3 | |
| Power Supplies | Dual, Hot-plug, Redundant Power Supply (1+1), 1100 W<br>Dual, Hot-plug, Redundant Power Supply (1+1), 1400 W<br>Dual, Hot-plug, Redundant Power Supply (1+1), 2400 W | |
| Form Factor | 2U Rack | |

## AX-6515 (End of Life)

| Storage Configuration | All Flash (All-SSD) |
|---|---|
| Chassis Configurations | 8 x 2.5" front bay drives |
| Processors | Single socket, 2nd / 3rd Gen AMD EPYC (Rome/Milan) Processor |
| Memory | 64 GB to 1 TB |
| Storage controller | Internal HBA330 12Gbps SAS HBA Controller (NON-RAID) |
| Internal Boot Storage | BOSS with dual M.2 240GB or 480GB (RAID 1) |
| Storage for Cache<br>  MU = Mixed Use<br>  WI = Write Intensive | - |
| Storage for Capacity | 4 to 8 x up to 7.68 TB SAS/ vSAS/ SATA SSDs |
| Min/Max Raw Storage | 3.2 to 61.44 TB |
| Network cards | - Integrated LOM:<br>    On-Board Broadcom 5720 Dual Port 1Gb LOM<br>- Add-in-Card (required): 1<br>    - Mellanox: ConnectX-5 Dual Port 10/25 GbE, ConnectX-6 DX Dual Port 40/100 GbE (RoCE)<br>    - Qlogic/Marvell QL41262 DP 10/25 GbE (iWARP)<br>- Mezz:<br>    - Broadcom: 57414 Dual Port 10/25GbE SFP28, 57416 Dual Port 10 GbE SFP+/Base-T |
| HCI Software | Microsoft Azure Stack HCI, version 23H2 (factory preinstalled), 22H2 (optional)<br>Microsoft Windows Admin Center (WAC) |
| Out of Band Management | Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter<br>IPMI 2.0 compliant<br>Quick Sync2 (Optional) |
| Integrations | Dell OpenManage Integration with Windows Admin Center |
| Services | ProSupport and ProSupport Plus, ProDeploy, ProDeploy Plus with add-on for Azure Stack HCI<br>Call-routing, phone home, and automated case creation supported with Secure Connect Gateway 5.0<br>Consulting Services for Azure Stack HCI<br>iDRAC Service Module (iSM) |
| Security | Trusted Platform Module 2.0 |
| Power Supplies | Dual, Hot-plug, Redundant Power Supply (1+1), 550W<br>Dual, Hot-plug, Redundant Power Supply (1+1), 750W |
| Form Factor | 1U Rack |

# AX-740xd (End of Life)

| Storage Configuration | Hybrid (SSD + HDD) | Hybrid (NVMe + HDD) | All flash (NVMe + SSD) | All flash (All-NVMe) | All flash (All-SSD) |
|---|---|---|---|---|---|
| Chassis Configurations | 18 x 3.5" drives 12 x 3.5" front bay 4 x 3.5" mid bay 2 x 3.5" rear bay | 12 x 3.5" front bay drives | 24 x 2.5" front bay drives | 24 x 2.5" front bay drives | 24 x 2.5" front bay drives with up to 12 x NVMe drives | 24 x 2.5" front bay drives |
| Processors | Dual Intel Xeon Scalable Processors, Cascade Lake/Skylake (CL/CL-R), Select Silver/Gold/Platinum options | | | | | |
| Memory | 96 GB to 1.5 TB | | | | | |
| Storage controller | Internal HBA330 12Gbps SAS HBA Controller (NON-RAID) | | | | | |
| Internal Boot Storage | BOSS with dual M.2 240GB or 480GB (RAID 1) | | | | | |
| Storage for Cache MU = Mixed Use WI = Write Intensive | Up to 6 x 800 GB to 3.84 TB SAS (WI/MU) / SATA (MU) SSDs | 2 or 4 x 800 GB to 3.84 TB SAS (WI/ MU) / SATA (MU) SSDs | 2 to 4 x 1600 GB to 6400 GB PCIe NVMe (MU) SSDs | 2 to 4 x 1600 GB to 6400 GB PCIe NVMe (MU) SSDs | - | - |
| Storage for Capacity | Up to 12 x 2/4/8/12/16 TB NL-SAS/ SATA HDDs | 4 or 8 x 2/4/8/12/16 TB NL-SAS/ SATA HDDs | 4 to 20 x 2 TB SATA or 2.4 TB SAS 10K HDDs | 4 to 20 x 960 GB to 7.68 TB SAS/vSAS/SATA (MU) SSDs | 4 - 12 x 1.6 to 15.35 TB NVMe | 4 to 24 x 800 GB to 3.84 TB SAS or 960 GB to 3.84 TB SATA or 3.84 TB to 7.68 TB vSAS SSDs (WI or MU highly recommended) |
| Min/Max Raw Storage | 24 to 192 TB | 8 to 128 TB | 8 to 48 TB | 3.84 to 153.6 TB | 6.4 to184.32 TB | 3.2 to 184.32 TB |
| Network cards | Add-in-cards *QLogic QL41262 (Dual Port 25GbE) *[4x on selected models] or Mellanox ConnectX-4 LX (Dual Port 25GbE) or *Mellanox ConnectX-5 (Dual Port 100GbE) *[On selected models] Network daughter card (NDC) Dual Port Intel X710 (10 GbE) + Dual Port Intel i350 (1 GbE) or Dual Port Broadcom 57412 (10 GbE) + Dual Port Broadcom 5720 (1 GbE) or QLogic FastLinQ 41162 Dual Port 10GbE BASE-T & Dual Port 1GbE BASE-T | | | | | |
| HCI Software | Microsoft Azure Stack HCI, version 22H2 (factory preinstalled) Microsoft Windows Admin Center (WAC) | | | | | |
| Out of Band Management | Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter IPMI 2.0 compliant Quick Sync2 (Optional) | | | | | |
| Integrations | Dell OpenManage Integration with Windows Admin Center | | | | | |
| Services | ProSupport and ProSupport Plus, ProDeploy, ProDeploy Plus with add-on for Azure Stack HCI Call-routing, phone home, and automated case creation supported with Secure Connect Gateway 5.0 Consulting Services for Azure Stack HCI iDRAC Service Module (iSM) | | | | | |
| Security | Trusted Platform Module 2.0 | | | | | |
| Power Supplies | Dual, Hot-plug, Redundant Power Supply (1+1), 1100W or 1100W - 48VDC only Dual, Hot-plug, Redundant Power Supply (1+1), 1600W Dual, Hot-plug, Redundant Power Supply (1+1), 2000W Dual, Hot-plug, Redundant Power Supply (1+1), 2400W | | | | | |
| Form Factor | 2U Rack | | | | | |

## AX-640 (End of Life)

| Storage Configuration | Hybrid (SSD + HDD) | Hybrid (NVMe + HDD) | All flash (NVMe + SSD) | All flash (All-NVMe) | All flash (All-SSD) |
|---|---|---|---|---|---|
| Chassis Configurations | 10 or 12 x 2.5" bay drives (10 x front, 2 x rear) | 10 x 2.5" front bay drives | | | 10 or 12 x 2.5" bay drives (10 x front, 2 x rear) |
| Processors | Dual socket Intel Xeon Scalable Processors, Cascade Lake (CL/CL-R), Select Silver/Gold/Platinum options | | | | |
| Memory | 96 GB to 1.5 TB | | | | |
| Storage controller | Internal HBA330 12Gbps SAS HBA Controller (NON-RAID) | | | | |
| Internal Boot Storage | BOSS with dual M.2 240GB or 480GB (RAID 1) | | | | |
| Storage for Cache <br><br> MU = Mixed Use <br> WI = Write Intensive | 10 drives: 2 x 800 GB (WI) SAS or 960 GB to 3.84 TB (MU) SAS/SATA SSDs <br><br> 12 Drives: 2/3/4 x 800 GB to 3.84 TB SAS (WI/MU)/ SATA (MU) SSDs | 2 x 1.6/3.2/6.4 TB (MU) NVMe SSDs | 2 x 1.6/3.2/6.4 TB (MU) NVMe SSDs | - | - |
| Storage for Capacity <br><br> RI= Read Intensive <br> MU = Mixed Use <br> WI = Write Intensive | 10 drives: 4/6/8 x 2 TB SATA or 2.4 TB SAS 10K HDDs <br> 12 drives: 4/8/9 x 2 TB SATA or 2.4 TB SAS 10K HDD | 4/6/8 x 2 TB SATA or 2.4 TB SAS 10K HDD | 4/6/8 x 800GB to 7.68 TB SAS/vSAS/ SATA SSD) | 4/6/8/10 x 4 TB (RI) or 1.6/3.2/6.4 TB (MU) NVMe | 10 drives: 4 to 10 x 800GB to 3.84TB SAS/SATA SSDs or 7.68TB vSAS <br> 12 drives: 4 to 12 x 800GB to 3.84TB SAS/SATA SSDs or 7.68TB vSAS |
| Min/Max Raw Storage | 8 to 19.2 TB | 8 to 19.2 TB | 3.2 to 61.4 TB | 6.4 to 64 TB | 3.2 to 92.16 TB |
| Network cards | Add-in-cards <br> *Qlogic QL41262 (Dual Port 25 GbE) *[2 on select models] or <br> Mellanox ConnectX-4 LX (Dual Port 25GbE) or <br> *Mellanox ConnectX-5 (Dual Port 100GbE) <br> *[On selected models] <br><br> Network daughter card (NDC) <br> Dual Port Intel X710 (10 GbE) + Dual Port Intel i350 (1 GbE) or <br> Dual Port Broadcom 57412 (10 GbE) + Dual Port Broadcom 5720 (1 GbE) or <br> QLogic FastLinQ 41162 Dual Port 10GbE BASE-T & Dual Port 1GbE BASE-T | | | | |
| HCI Software | Microsoft Azure Stack HCI, version 22H2 (factory preinstalled) <br> Windows Admin Center (WAC) | | | | |
| Out of Band Management | Integrated Dell Remote Access Controller (iDRAC) 9 Enterprise or Datacenter <br> IPMI 2.0 compliant <br> Quick Sync2 (Optional) | | | | |
| Integrations | Dell OpenManage Integration with Windows Admin Center | | | | |
| Services | ProSupport and ProSupport Plus, ProDeploy, ProDeploy Plus with add-on for Azure Stack HCI <br><br> Call-routing, phone home, and automated case creation supported with Secure Connect Gateway 5.0 <br><br> Consulting Services for Azure Stack HCI <br><br> iDRAC Service Module (iSM) | | | | |
| Security | Trusted Platform Module 2.0 | | | | |
| Power Supplies | Dual, Hot-plug, Redundant Power Supply (1+1), 1100W or 1100W - 48VDC only <br> Dual, Hot-plug, Redundant Power Supply (1+1), 1600W | | | | |
| Form Factor | 1U Rack | | | | |

Learn more about Dell Integrated Systems for Microsoft Azure Stack HCI

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DELLTechnologies

v5.0