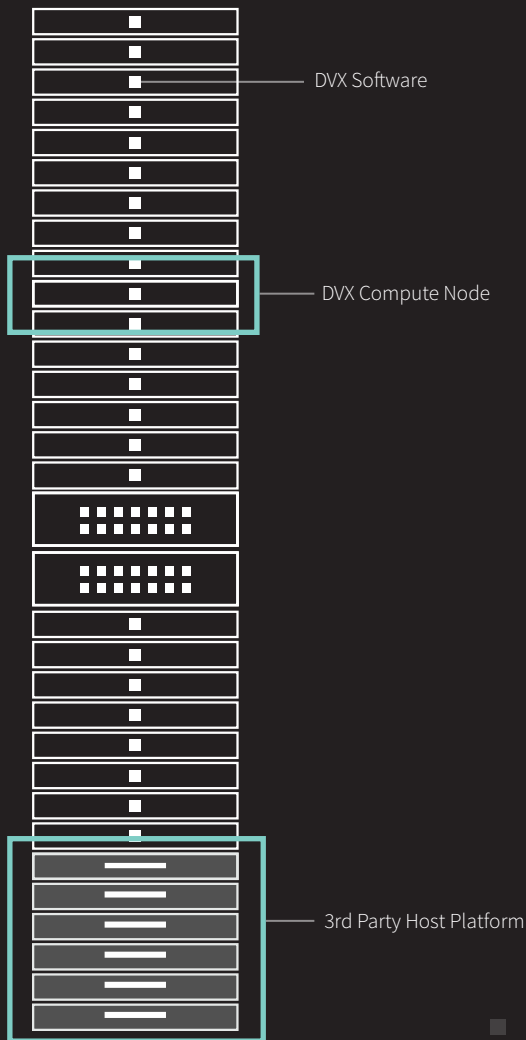




Datrium DVX Compute Node Specification



DVX Compute Node specifications: CN2100

Chassis	1U form factor, 8x NVMe / SAS or 10x SATA drive slots, RAID controller
CPU Options	2x Intel Xeon Silver 4114, 10 cores / socket, 2.2 GHz 2x Intel Xeon Gold 6148, 20 cores / socket, 2.4 GHz 2x Intel Xeon Gold 6132, 14 cores / socket, 2.6 GHz 2x Intel Xeon Gold 6134, 8 cores / socket, 3.2 GHz
Memory	128GB (4x32GB RDIMM 2400 MT/s, Dual Rank, x4 Data Width). Expandable up to 768GB total (4x32GB increments)
System SSD	960GB (2x480GB SATA Read Intensive)
Base Cache SSD	NVMe <ul style="list-style-type: none"> • 3.2TB (2x1.6TB) • Expandable to 16TB (1.6TB, 3.2TB options) SSD <ul style="list-style-type: none"> • 3.84TB (2x1.92TB) • Expandable to 16TB (1.92TB, 3.84TB options)
Networking	2 ports 10GbE SFP+ and 2 ports 1GbE (default) Add Ons <ul style="list-style-type: none"> • 2 ports 10GbE SFP • 2 ports 10GbE BaseT • 2 ports 25GbE SFP28
Performance (32K / 4K) Estimates	Per Host: 40,000 IOPS / 140,000 IOPS; Per DVX: 5 Million IOPS / 18 Million IOPS
Power	Dual, Hot Plug, Redundant Power Supply, 750W
Hypervisor	VMware <ul style="list-style-type: none"> • Ships with VMware vSphere 6.0 U3. Red Hat <ul style="list-style-type: none"> • Ships with RHEL 7.3 + KVM + RHV Packages Also Supports <ul style="list-style-type: none"> • vSphere 6.0 U3+, vSphere 6.5+ • KVM on CentOS 7.3 • Docker Containers running Docker Engine 1.2 on Bare Metal RHEL, CentOS

Physical and environmental specifications: CN2100

Dimensions (H x W x D)	1U chassis, 19" 1.68 x 18.97 x 30.42 in. (42.8 x 482.3 x 755.1 mm)
Weight (max)	48.28 lbs (21.9 kg)
Input Power	495W (1908 BTU/h)
Power Supply Capacity	750W (2891 BTU/h)
Storage Temp	-40°C to 65°C (-40°F to 149°F)
Continuous Operation Temp	10°C to 35°C (50°F to 95°F) with no direct sunlight on the equipment ¹
Expanded Operating Temp	5°C-40°C at 5% to 85% RH with 29°C dew point

DVX Compute Node specifications: CN2000

Chassis	1U form factor, 10 drive slots, 3 low profile PCIe, RAID controller
CPU Options	2x Intel Xeon E5-2620 v4, 8 cores / socket, 2.1GHz, or 2x Intel Xeon E5-2680 v4, 14 cores / socket 2.4GHz
Processor Sockets / Core Options	2 Sockets, 8-core or 14-core per Socket.
Memory	128GB (4x32GB RDIMM 2400 MT/s, Dual Rank, x4 Data Width) Expandable up to 768GB total (4x32GB increments)
System SSD	960GB (2x480GB SATA Read Intensive, 6Gpbs)
Base Cache SSD	1.92TB (2x960GB SAS Read Intensive, 12Gbps) Expandable to 13.4TB (960GB, 1.92TB drive options)
Networking	Intel X520 DP 10Gb DA/SFP+, + I350 DP 1Gb Ethernet, Network Daughter Card. Add up to 2 Intel X520 DP 10Gb DA/SFP+ or Intel Ethernet X540 10GBASE-T
Performance (32K / 4K) Estimates	Per Host: 40,000 IOPS / 140,000 IOPS; Per DVX: 5 Million IOPS / 18 Million IOPS
Power	Dual, Hot Plug, Redundant Power Supply, 750W
Hypervisor and Container Support	Ships with VMware vSphere 6.0 U3. Also Supports: <ul style="list-style-type: none"> vSphere 6.0 U3+, vSphere 6.5+ KVM on Red Hat Enterprise Linux 7.3, with Red Hat Virtualization Management KVM on CentOS 7.3 Docker Containers running Docker Engine 1.2 on Bare Metal RHEL, CentOS

Physical and environmental specifications: CN2000

Dimensions (H x W x D)	1U chassis, 19" 1.68 x 18.98 x 29.72 in (42.8 x 482.3 x 755.1 mm)
Weight	37.3 lbs (16.9 kg)
Input Power	483W (1648.1 BTU/h)
Power Supply Capacity	750 W (2559.1 BTU/h)
Maximum Potential Power	720.1 W (2457 BTU/h)

Input Current	4.4 amps
Sound Power Level	7.5 bels
Airflow Rate	16.2 Vs, 34.4 CFM
Air Temperature Rise	25.3° C (45.6° F)
Processor Thermal Configuration	2 CPU up to 120W
Power Cords	2 x NEMA 5-15P to C13 wall plug, 125V, 15A, z10 feet (3m), North America

3rd Party Host Platform

Hypervisor and Container Support	VMware <ul style="list-style-type: none"> vSphere v5.5 update 2 & above, v6.0 & above. Red Hat <ul style="list-style-type: none"> RHEL 7.3 + KVM + RHV Packages Also Supports <ul style="list-style-type: none"> KVM on CentOS 7.3 Docker Containers running Docker Engine 1.2 on Bare Metal RHEL, CentOS
Host Platforms	Any server, RAID controller on VMware VCG3 ² . RAID controller not required.
CPU	Minimum 2 cores for DVX, limited to 20% of available cores by default ³ .
Memory	7.5 GB, plus 2.5 GB per 1 TB of local host SSD
SSD Type	Any flash device (PCIe, SAS, SATA) on VMware VCG for VSAN or vFlash by Cisco, Dell, HP or IBM, as well as select Intel and Samsung drives. Read-intensive drives preferred.
SSD Per Host	Quantity (Min / Max): 1 Drive / 10 Drives. Capacity (Min / Max): 800 GB / 16 TB.
Performance (32K / 4K) Estimates	Per Host: 40,000 IOPS / 140,000 IOPS; Per DVX: 5 Million IOPS / 18 Million IOPS

¹ For altitude less than 950 m or 3117 ft

² VMware Hardware Compatibility: <http://www.vmware.com/resources/compatibility/search.php>

³ The Hyperdriver uses a minimum of 2 cores on a host. If the host has more than 10 cores, the Hyperdriver uses up to 20% of available host cores up to a maximum of 20 cores for DVX use. Insane Mode dynamically adjusts this to 40% of available cores.