SPEC SHEET

NEXSAN

UNITY™ NV12000

UNIFIED STORAGE

Built for AI scale, speed, and density.

CATEGORY	FEATURE	UNITY NV12000
ENTERPRISE FEATURES	**Immutable Storage; Security, Compliance and Ransomware Protection**	Unity delivers immutable volume and file system snapshots, S3 object locking and integrates with Assureon® to address a wide variety of data protection use cases. Includes AES software encryption for data at rest.
	Supports Multiple Protocols	SAN (Fibre Channel, iSCSI), NAS (NFS, SMB, FTP), Object (S3) - NexObject™
	Drives Supported	NVMe | SAS SSD | SAS HDD | SED | SED FIPS
	All-inclusive Licensing	No extra fees, just all the extra features: Immutable snapshots, S3 object locking, Cloud Connector, multi-factor authentication (MFA), SMB Access Audit, FASTier® caching, in-line compression, replication, data integrity, high availability, non-disruptive upgrades, data deduplication, Assureon Connector
	Cloud Connector - S3 Edge Caching	The S3 Cloud Connector enables seamless edge caching with bi-directional sync between on-prem storage and cloud providers like AWS S3 and Azure. It boosts performance, reduces latency, and ensures data availability across hybrid environments.
	Flexible Configurations	Unity is optimized to deliver the performance you need whether it's a hybrid configuration or an all-flash, making it easy and affordable to meet the application needs.
	Data Deduplication	Maximize usable capacity with intelligent data deduplication, delivering up to 9x data reduction.
	FASTier® Caching	Nexsan's FASTier® acceleration technology leverages the power of solid-state to accelerate the performance of the underlying spinning disks by a factor of up to 10X.
	User Interface	Unity includes both a built-in GUI and a comprehensive Command Line Interface (CLI). The Unity UI allows an administrator to easily manage and monitor a Unity deployment, regardless of size, from anywhere with just a web browser.
	PCI Compliance	Unity supports TLS 1.2 for PCI compliance.
	Authentication	Active Directory, LDAP, and Local - Multi-factor Authentication (MFA) with DUO Security.
	Host Platforms	All major platforms including Windows, Linux, Mac, VMware ESX, Hyper-V, Xen
	Data Services	Advanced data reduction, thin provisioning with dead space reclamation, replication, and snapshots.
	Performance	Up to 3,000,000 IOPS
	Backup Software Compatibility	Veeam, Commvault, Bacula, Arcserve, and more
	3rd Party Software Supported	Scale Computing, Windows VSS, VMware VAAI, Commvault, Veeam Ready Repository, Proxmox, XenServer, Bacula, Vates, Milestone, Genetec, Datacore & More
	High Availability	No single point-of-failure architecture with dual redundant storage controllers, redundant power supplies and RAID.
SYSTEM CONFIGURATION	**Disk bays | # JBODs Supported**	24 | up to 8
	Form Factor	2U
	System Memory/DRAM	512GB per Controller
	Supported Expansion Systems	U2G478 | U2F226
	Controllers	2
STORAGE MEDIA	**2.5" NVME | SAS SSDs (TB)**	1.92 | 3.84 | 7.68 | 15.36 | 30.72 | 122.88
	Max Capacity with All-Flash | Rack U	15.72PB NVMe | 10U with 4 U2F226 22.1PB SAS SSD + NVMe | 34U
	3.5" 7.2K Drives (TB)	10 | 12 | 16| 18 | 20 | 22 | 24 | 26
	Maximum Drives with Expansion	648 Drives with 8 U2G478 expansions
	Maximum Raw Capacity with HDD Expansions | Rack U	19.17PB | 34U

1287 Anvilwood Avenue, Sunnyvale, CA 94089 | 1.408.724.9809 | Nexsan.com

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UNITY™ NV12000

TECHNICAL SPECIFICATIONS



CATEGORY	FEATURE	UNITY NV12000
HOST CONNECTIVITY	16 | 32 Gb/s Fibre Channel Max Ports/System	12 | 12
	10 | 25 | 40 | 100GbE Max Number of Ports/System	16 | 12 | 12 | 12
	10GbE RJ45 Embedded Standard Configuration	YES
SYSTEM STORAGE SERVICES	Max NFS | CIFS File Systems	512 | 512
	Max LUNs per Target	255
	Max LUN Size	256TB
	System Max LUNs	255 - Fibre Channel | 1024 - iSCSI
	Max Snapshots per LUN	2048
	Replication	Asynchronous storage pool-level replication
POWER, COOLING, & ENVIRONMENTAL	Number of hot-swappable power supplies - head units	2
	Voltage, Frequency	100 - 240V | 50 - 60Hz
	Operating Temperature	10-35°C, 50-95°F
	Operating Humidity	8-90% (non-condensing)
	Max Power | Wattage per Controller	2000W | 2000W
SIZE & WEIGHT	Controller Form Factor	2U
	Dimension (WxHxD)	17.7 x 3.47 x 30 in | 449.4 x 88 x 762 mm
	Controller Unit Weight	89.6 lbs. (40.66 kg.)
RAILS & CABLES	Mounting Rails and SAS/PCIe Cables included	YES
POWER CABLE	Power Cable	C13/C14
STORAGE CHASSIS FOR EXPANSION	12Gb/s SAS Standard Configuration | PCIe retimer card (per controller)	Quad Port | Single Port
	Storage Chassis Supported	U2G478 | U2F226

CATEGORY	FEATURE	U2G478	U2F226
UNITY STORAGE EXPANSION CHASSIS	Chassis Form Factor	4U	2U
	Dimension (WxHxD)	17.61 x 6.89 x 28.03 in | 447 x 175 x 712 mm	17.2 x 3.5 x 29.5 in | 438 x 88 x 750 mm
	Storage Unit Weight	234 lbs full | 78 lbs empty	83.8 lbs empty
	Number of hot-swappable power supplies	2	2
	Voltage | Frequency	200-240V | 50-60Hz	100-240V | 50-60Hz
	Operating Temperature | Humidity	0-60°C, 32-140°F | 10-90%	0-35°C, 32-95°F | 20-80%
	Power Supply Wattage	1600W	3200W
	Power Cable	C13/C14	C19

ABOUT NEXSAN

Nexsan® is a global leader in enabling customers to securely store, protect, and manage data. Established in 1999, Nexsan has earned a reputation for delivering the most highly reliable, secure, and cost-effective storage while always remaining agile to continuously deliver purpose-built storage and data management solutions that meet complex and ever-changing IT, business, and budgetary requirements. Nexsan's patented technology is ideal for a variety of use cases including backup and recovery, content delivery and streaming, scientific lab data, virtualization, evidentiary data, digital video surveillance, regulatory compliance, and healthcare records. For further information, please visit www.nexsan.com.

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