DATA SHEET

NEXSAN

UNITY NV-SERIES™

ONE PLATFORM, ANY WORKLOAD.

Nexsan's Unity NV-Series™ unifies enterprise-class block, file, and NexObject™ S3 object storage in both blazing all-flash NVMe and budget-friendly hybrid builds. Whether you deploy a Unity NV4000 at the edge, a Unity NV6000 for mixed workloads, the Unity NV10000 for top-tier performance, or the all-flash NVMe Unity NV12000 for maximum speed and density, every system ships with the same full software suite. No à la carte license fees.

Core capabilities such as FASTier® caching, immutable snapshots, integrated S3 object store, deduplication and the Cloud Connector are baked into every model, giving you identical functionality from terabytes to multi-petabyte scale. This shared foundation, and the choice between flash IOPS or hybrid capacity economics lets you fine tune cost and performance without compromising consistency, resiliency, or future-proof flexibility across the entire NV-Series portfolio.

CORE FEATURES

FLEXIBLE ALL-FLASH & HYBRID CONFIGURATIONS

- Deploy ultra-low latency all-flash arrays or economical hybrid tiers that blend SSD and HDD.
- Capacity and performance scale independently.
- Optimized for mixed workloads with FASTier® SSD caching and adaptive I/O paths that let VMs, databases, analytics, surveillance, and backup streams coexist with consistent low latency and high throughput.
- Native SAN (iSCSI), NAS (SMB, NFS, FTP), and NexObject S3 object services enable a single array to present block LUNs, file shares, and object buckets simultaneously, eliminating storage silos and simplifying workflows.

HIGH AVAILABILITY & RESILIENCY

- Each model is designed with redundancy at every critical point, including dual controllers and power supplies.
- Advanced error detection and self-healing functions minimize downtime, protecting against potential data loss and operational slowdowns.

SCALABILITY

- Right-Size Today, Scale Tomorrow: From cost-effective hybrid to top-tier all-flash NVMe, choose the Unity system that matches your workload and budget, then expand capacity as you grow.
- Linear Scale Without Sacrifice: Adding shelves or higher density drives increases capacity and throughput in lock step, so performance keeps pace with growth.
- Mission Critical Ready: Unity NV-Series pairs larger drive counts with more cache and CPU to sustain mixed workloads ranging from VM farms to high bandwidth analytics to AI data lakes.

ENTERPRISE DATA SERVICES

- Every Unity NV-Series model ships with the complete software suite, immutable snapshots, S3 object locking, thin provisioning, deduplication, replication, and Cloud Connector, all managed through a single mangement interface, with no per feature license fees.
- Immutable snapshots for quick recovery from data corruption or accidental deletions.
- Intelligent caching and a high-performance storage architecture boost system performance, helping IT teams maintain responsive and efficient storage operations.

ALL-FLASH NVME

- With support for 122.88TB QLC NVMe SSDs, a single 2U NV12000 holds up to 2.95PB of raw all-flash capacity.

CLOUD CONNECTOR

- Automatic bi-directional sync for files and directories with leading cloud providers such as AWS S3, Azure, and the Unity NexObject.

DATA DEDUPLICATION

- Up to 9x data reduction with intelligent deduplication for greater storage efficiency.

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UNITY NV-SERIES™

PRODUCT FAMILY OVERVIEW






CATEGORY	FEATURE	UNITY NV4000	UNITY NV6000	UNITY NV10000	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			
	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.			
	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.			
	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.			
	Backup Software Compatability	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.			
PERFORMANCE AND CAPACITY	Performance (IOPS)	Up to 1,000,000	Up to 1,500,000	Up to 2,000,000	Up to 3,000,000
	Max Capacity with All-Flash | Rack U	1.47PB Raw | 8U	6.63PB Raw | 12U	19.89PB Raw | 34U	15.72PB NVMe | 10U with 4 U2F226 22.1PB SAS SSD + NVMe | 34U
	Maximum Drives with Expansion	48 drives with 1 U2G424 expansion	216 drives with 2 U2G478 expansions	648 drives with up to 8 U2G478 expansions	648 Drives with 8 U2G478 expansions
	Maximum Raw Capacity with HDD Expansions | Rack U	1.24PB | 8U	5.61PB | 12U	16.22PB | 34U	19.17PB | 34U

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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