DATA SHEET

NEXSAN

UNITY™ NV10000

ENTERPRISE STORAGE THAT BALANCES PERFORMANCE, CAPACITY, AND COST

The Unity™ NV10000 product enhances the Unity platform with All-Flash NVMe technology, ensuring top-notch performance, ample storage space, and versatility. With this technology, the Unity platform can handle data transfers at speeds of up to 20GB/s, adapting smoothly as your application demands change.

The platform serves as an excellent primary storage option or as a FASTier® cache acceleration layer to speed up data access. Additionally, the Unity NV10000 supports various configurationsand is built for easy expansion, meeting your specific storage and performance needs.

KEY CAPABILITIES

TRUE UNIFIED SOLUTION

- Unity supports block (iSCSI, FC), file (NFS, SMB) and object (S3) protocols that can adapt to any storage environment.
- Unity is deployed in financial institutions, multimedia production companies, hospitals, and national labs for multiple applications, including big data, backup/archive, data virtualization, databases, database dumps and log files, file sharing, video editing and more.

IMMUTABLE SNAPSHOT PROTECTION

- Unity's Immutable Snapshot functionality provides advanced data protection and security.
- Once retention settings are applied, they cannot be altered, ensuring long-term data integrity.
- Strict access controls help defend against unauthorized access and ransomware, making snapshots immutable and resistant to modification or deletion.
- Optional Assureon® integration adds ransomware protection for tiered data and regulatory compliance.

S3 OBJECT LOCKING & COMPLIANCE

- The Unity S3 Object Store features object locking, enforcing WORM (Write Once, Read Many) immutability to ensure data remains unaltered.
- This supports compliance-driven organizations and effective data lifecycle management.
- Together, Unity's snapshot, object lock, and AES-256 encryption capabilities deliver multi-layered data protection.

FEATURE-RICH, ENTERPRISE-READY

- Unity delivers core enterprise features for multi-protocol access along with advanced features like high availability, snapshots, ESXi integration, in-line compression, FASTier® caching, asynchronous and synchronous replication, data at rest encryption, and storage pool scrubbing to protect against bit rot, avoiding silent data corruption.
- Unity supports a comprehensive OS matrix and is certified for both Veeam Ready Repository and Veeam Object Ready.

2 MILLION IOPS

High Performance

FASTier ® SSD caching for accelerated workloads.

IMMUTABLE

Data Protection

Immutable snapshots and S3 object locking.

ON-PREMISES

Cost-Effective Storage

Avoid unpredictable long-term cloud costs.

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UNITY™ NV10000

PRODUCT OVERVIEW



CATEGORY	FEATURE	UNITY NV10000
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 2,000,000
	Max Capacity with All-Flash | Rack U	19.89PB Raw | 34U
	Maximum Drives with Expansion	648 drives with up to 8 U2G478 expansions
	Maximum Raw Capacity with HDD Expansions | Rack U	16.22PB | 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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