



PRODUCT BROCHURE

NexaVM N5000

Unified Enterprise Storage Array



The NexaVM N5000 is a high-performance, independently developed enterprise storage array built on the Kunpeng multi-core CPU. Its proprietary dual-controller redundancy and clustered architecture, combined with a fully modular design, deliver outstanding reliability and dramatically simplified network deployment.

2U / 25 Bays

High-density 2U enclosure with 25 NVMe SSD bays; scale out to 2,048 drives.

Dual to 16 Controllers

Dual-controller redundancy, scalable to 16 controllers for growth on demand.

128 – 512 GB Cache

Dual-controller system cache from 128 GB up to 512 GB.

SAN + NAS Unified

Unified block and file storage across FC SAN, IP SAN and NAS in one system.

■ Key Points at a Glance

✓	Key Point	Summary
✓	Architecture	Kunpeng multi-core CPU; dual-controller redundancy scalable to 16 controllers
✓	Density	2U chassis with 25 NVMe SSD bays; up to 2,048 drives; up to 4,096 LUNs
✓	Unified storage	FC SAN, IP SAN and NAS with block and file services in a single system
✓	Availability	Hot-swappable redundant controllers, symmetric Active-Active SAN and NAS, automatic failover and failback
✓	Data protection	Snapshots, replication (sync/async, second-level RPO), mirroring, power-loss protection
✓	Efficiency	Thin provisioning, compression, deduplication, automatic tiering, SSD cache acceleration
✓	Connectivity	1/10/40 GbE iSCSI; 8/16/32 Gb FC; 10/40 Gb FCoE; NVMe over RoCE
✓	Ecosystem	VMware, Hyper-V, XenServer, KVM, OpenStack; UNIX, Linux, Windows, Kylin, UOS

■ Rich Management Features

- Web-based management for convenient local and remote control
- SMTP manager monitors all events and automatically notifies users
- SNMP support for network-wide monitoring
- Innovative high-efficiency cooling structure
- RAID 0, 1, 5, 6, 10, 50, 60 and linear RAID
- Global and dedicated hot-spare disks
- Online array roaming
- Online volume expansion
- Support for large-capacity drives
- Comprehensive event logging
- Multiple login methods, including HTTP and serial port
- Intelligent power management
- S.M.A.R.T. parameter monitoring
- Redundant FLASH mirroring

■ Advanced Storage Features

- Converged SAN and NAS to serve diverse business workloads in one system
- Online LUN expansion and LUN renaming for on-demand capacity allocation
- Intelligent LUN data migration with zero service interruption
- Fast remote LUN copy for backup
- Synchronous and asynchronous remote replication over FC and IP, with asynchronous replication down to second-level RPO
- Intelligent thin LUN management with automatic capacity expansion
- Intelligent LUN data sanitization to protect critical information
- LUN-level request queuing for guaranteed low latency

- Hardware-based power-loss protection to minimize data loss on failure
- Firmware-level SAS data processing module — secure and fast
- Firmware-level, gateway-free symmetric Active-Active SAN and NAS; SAN Active-Active supports load sharing with automatic failover and failback

■ Flexible and Reliable

- 1/10/40 Gbps iSCSI and 8/16/32 Gbps FC host interfaces for flexible network topologies
- Hot-swappable redundant controllers, redundant path protection and hot failover
- ALUA multipath with multi-link load balancing and fault tolerance

■ Product Specifications

Core Specifications	
Model	N5000
Processor	Kunpeng multi-core CPU
Controllers	Dual controllers, expandable up to 16 controllers
Form Factor / Bays	2U, 25 drive bays
System Cache	128 GB – 512 GB (dual controller)
Storage Modes	NAS / FC SAN / IP SAN; unified block and file storage
Storage Protocols	FC, iSCSI, NFS, CIFS, S3, FTP, HTTPS, NVMe over RoCE
Host Interface Slots	1/10/40 GbE, 8/16/32 Gb FC, 10/40 Gb FCoE, 24/48 Gb Mini SAS (expandable)
Drive Type	NVMe SSD
Maximum Drives	2,048

Key Software Features	
RAID Levels	0, 1, 5, 6, 10, 50, 60, linear RAID
OS Compatibility	UNIX, Linux, Windows, Kylin, UOS and others
Virtualization	VMware, Hyper-V, XenServer, KVM and others
OpenStack	Integrates with the OpenStack cloud platform for unified storage management
Maximum LUNs	4,096
Management Software	Web-based graphical management console with unified management; operation logs, fault statistics, email alerts, performance monitoring, configuration import/export and system diagnostics
Storage Pool Rebuild	Intelligently schedules rebuild rate according to workload

Key Software Features

Resource Efficiency	Intelligent RAID verification, automatic RAID rebuild, online RAID expansion, media scan, data integrity check and disk location
Active-Active Controllers	High-speed inter-controller data exchange with seamless request switchover, greatly reducing latency
Intelligent Disk Management	Intelligent disk hibernation
Cache Acceleration	SSD cache with configurable SSD ratio
Data Protection	Data replication, file migration, data mirroring, thin provisioning, snapshots, SSD acceleration, compression, deduplication, automatic tiering and local logical volume mirror

Hardware & Environment

Hot-Spare Disks	Local, global and dedicated hot-spare disks
Drive Indicators	Read/write and fault status (dual LED)
PSU / Fan Modules	2
Relative Humidity	10% – 85% non-condensing
Operating Temperature	0°C – 45°C