PERFORMANCE TIER

KUMULUS NVMe NAS

Extreme Performance. Ultra-Low Latency. Built for the Fast Lane.

KUMULUS NVMe NAS delivers uncompromising performance for mission-critical workloads. Built on an all-NVMe architecture, it provides ultra-low latency, high IOPS, and consistent performance at scale for the most demanding file-based applications.

EXTREME SPEED
NVMe drives deliver ultra-low latency for the fastest file access.

HIGH IOPS AT SCALE
Consistent performance for virtual desktop, AI/ML, and HPC workloads.

ENTERPRISE DATA SERVICES
Erasure coding, replication, snapshots, and self-healing.

EASY TO GROW & MANAGE
Scale-out architecture with simplified operations and automation.

ALL-NVMe ARCHITECTURE. BUILT FOR EXTREME WORKLOADS.

EXTREME SPEED
NVMe drives deliver ultra-low latency for the fastest file access.

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ENTERPRISE DATA SERVICES
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EASY TO GROW & MANAGE
Scale-out architecture with simplified operations and automation.

FLEXIBLE HIGH AVAILABILITY

DUAL CONTROLLER (HA)
Active-active architecture with automatic failover for maximum availability.

OR

SINGLE CONTROLLER
Cost-effective option for workloads that do not require high availability.

KEY BENEFITS

- **Unmatched Performance**
  All-NVMe design delivers ultra-low latency and maximum throughput.
- **Consistent Low Latency**
  Built for mission-critical workloads that require predictable performance.
- **High Availability Options**
  Deploy with dual controllers for HA or single controller for cost efficiency.
- **Enterprise Data Protection**
  Snapshots, replication, erasure coding, and built-in data services.
- **Operational Simplicity**
  Unified management with automation-ready features.

IDEAL FOR

VIRTUAL DESKTOP INFRASTRUCTURE
High performance file storage for VDI environments.

DATABASE & BUSINESS APPS
Low latency and high IOPS for transactional workloads.

AI / ML & HPC WORKLOADS
Accelerate training, simulation, and data analysis.

MEDIA & CONTENT CREATION
High bandwidth for real-time editing and collaboration.

PRIVATE CLOUD & MULTI-TENANT
High performance shared storage for cloud and container platforms.

FILE SHARES & COLLABORATION
Fast, reliable file access for users and teams at scale.

ANALYTICS & BIG DATA
High-throughput storage for large datasets and real-time insights.

SURVEILLANCE & VIDEO ANALYTICS
Ingest and store high resolution video streams without compromise.

TRADITIONAL NAS vs KUMULUS NVMe NAS

TRADITIONAL NAS	CHALLENGES	KUMULUS NVMe NAS
HDD / SAS based architecture	Higher latency, limited IOPS	All-NVMe architecture for ultra-low latency & high IOPS
Complex tiers and management	High TCO and management overhead	Simplified architecture with lower TCO and automation
Limited data services	Additional software and licensing	Built-in data services no extra licenses
Downtime risk	Single point of failure in architecture	Active-active HA with dual controllers or cost-effective single controller option

KEY CAPABILITIES

All-NVMe Architecture
End-to-end NVMe for maximum performance and efficiency.

High-Speed Connectivity
25GbE / 100GbE for ultra-fast data access.

Built-in Data Services
Snapshots, replication, erasure coding, and self-healing.

Automation & Integration
REST API and automation-ready for seamless integration with ecosystem tools.

Monitoring & Analytics
Real-time performance monitoring and proactive insights.

USE CASES

- Virtual Desktop Infrastructure
- Database & Business Apps
- AI / ML & HPC Workloads
- Media & Content Creation
- File Shares & Collaboration
- Analytics & Big Data
- Surveillance & Video Analytics
- Private Cloud & Multi-Tenant

MAX PERFORMANCE. ZERO COMPROMISE.
BUILT FOR THE MOST DEMANDING WORKLOADS.

KUMULUS NVMe NAS delivers the speed and consistency modern businesses require to stay ahead.