

The NYRIAD logo is displayed in a large, white, sans-serif font. The letter 'A' is stylized with a triangle inside it. The background of the top section of the page features a hand reaching out towards a glowing digital interface with various icons and data points.

ULTRAIOTM STORAGE FOR BACKUP & RECOVERY

Imagine a revolutionary new erasure-code-based architecture that utilizes patented algorithms powered by GPUs and CPUs to deliver a combination of performance, resilience, and efficiency, enabling massive amounts of data to be managed in a single storage platform.

Nyriad® is enabling a new generation of storage solutions that empower businesses to grow, adapt, and stay competitive in a data-driven world. We are simplifying how data is stored, accessed, and managed.

PERFORMANCE - RESILIENCE - EFFICIENCY

REIMAGINE YOUR STORAGE REDEFINE YOUR POTENTIAL

WITH COMBINED GPU + CPU ARCHITECTURE

Overview

The Nyriad® UltraIO™ storage system's unique architecture enables organizations to leverage the highest capacity drives, with the processing power of GPUs and advanced algorithms, to deliver a combination of performance and data integrity. Nyriad's UltraIO storage system is equipped to handle increasingly complicated backup & recovery and archive workloads.

Staying ahead of increasing data protection performance demands

The UltraIO storage system's performance and ability to read and write multiple streams at the same time provides enterprise customers with the ability to meet increasing throughput demands. At up to 20 GB/s, the UltraIO storage system can support data protection and archiving solutions for ingest workloads at speeds required in today's ever changing threat landscape.

Restoration speeds - recovery is the key

With the UltraIO storage system, data is recovered at the fastest speed possible (up to 20 GB/s) regardless of the age of your backups. The UltraIO system enables complex parallel recovery scenarios to be accomplished in a performant manner. The UltraIO system's performance is optimized for single and multi-stream restoration.

Achieve lower cost per TB; typically only recognized with large cloud backup providers & hyperscalers

The UltraIO system's erasure coding enables you to leverage up to 92% of purchased capacity resulting in a much lower cost per TB, a cost closer to that of hyperscalers, while allowing on premises access to your data. This results in more capacity within a smaller footprint than most competing solutions.

Harnessing the power of GPUs for resilience

By using GPUs to calculate erasure codes, coupled with intelligent data placement, Nyriad's UltraIO system can leverage the largest media solutions in the industry, providing real-time checksums that deliver worry-free data resiliency from bit rot. Nyriad liberates data center managers from the burdens of maintaining RAID arrays, RAID sets, and multi-copy solutions. These practices are driven by the fear of losing data and reducing performance which could result in huge business losses. Block level erasure coding provides extremely high fault tolerance, well beyond what file system level data protection can do. We deliver data resilience and performance you can count on, even when up to 10% of the drives fail.

Eliminate disruption when media failures happen

Have you ever waited on a media repair to complete so you can start all of your workstreams again? With the UltraIO system, you can keep ingesting your backup and archive streams while simultaneously restoring.

The extreme resilience of Nyriad's UltraIO system means the data storage process of archiving and data protection streaming will always be one of the strongest functions in your ecosystem.

Consolidate multiple protection workloads

With the UltraIO system architecture, multiple disparate data streams can be hosted on a single array without compromise. Data protection workloads can coexist with video streaming, database dumps, and countless other functions.

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