

kaminario.

STORAGE FOR WHAT'S NEXT

ALL FLASH STORAGE
SOLUTIONS FOR
GETTING FROM
NOW TO NEXT.

Kaminario: Storage
without compromise

What makes
Kaminario's all-flash
architecture unique?

All-flash storage
strategies for the
modern datacenter

Storage that gets
you from now to next

STORAGE FOR **WHAT'S NEXT**

The applications we use in our personal lives have raised the level of expectations for the user experience in enterprise applications. How do modern IT organizations get ahead of user expectations and increasingly complex application requirements?

To succeed in such a dynamic environment, businesses must manage more information better—and the pace will only quicken over time.

To meet these expectations IT needs to overcome significant challenges in its storage architecture and datacenter strategy. Legacy infrastructure based on HDD technology, along with attendant skill and mindsets, are not equipped to address modern application requirements within realistic budgets. Storage spending is squeezed as IT budgets are spread across more categories. And with increasing emphasis on productivity, IT staffing strategies are evolving from storage specialists towards IT generalists.

Kaminario leverages the potential of all-flash storage to deliver consistently high performance and scalability without compromising cost-efficiency and control. Imagine getting the scalability and agility of cloud storage with predictable costs and on-premise control. IT organizations need scalability and agility with highly predictable performance and economics over time. Build a datacenter infrastructure strategy that positions your business to successfully handle whatever comes next for your business.

Kaminario's K2 all-flash array leverages a unique software-defined architecture that delivers predictable performance, scalability and cost-efficiency—highly valued predictability for the unpredictable world of the modern datacenter.

◀ [Click on the buttons to see what's next.](#)

KAMINARIO: STORAGE WITHOUT COMPROMISE

Kaminario takes a highly unique approach to storage that does not force IT organizations to make tradeoffs between scalability, performance and cost-efficiency.

Traditional storage strategies have been about compromise. Even new “alternative storage architectures” like cloud, hyperconverged, and flash storage have forced tradeoffs. Cloud storage solutions trade scalability and agility for lack of control and added cost. Hyperconverged solutions may offer simplicity but add cost and inhibit the ability to optimize performance. Even traditional all-flash arrays force IT to trade performance for higher costs—especially for scalability.

The Kaminario K2 all-flash array’s unique scale-up-and-out architecture allows businesses to achieve consistently high performance, scale seamlessly with business growth, while being highly cost efficient—even compared to legacy disk and hybrid storage.



Scalability

Kaminario gives businesses a path to scalability with a consistent performance and cost profile—guaranteed.

Performance

Kaminario allows IT to maintain predictably high performance across different workloads at scale.

Cost-efficiency

Kaminario ensures predictable cost efficiency today—and can easily adopt newer, more efficient flash media moving forward.

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“We selected K2 based on its exceptional scalability, resiliency and performance offered at an attractive price—even when compared with legacy arrays. K2 is a storage solution that can grow in our very dynamic business.”

Eric Ellerman,
Network Manager, Dot Foods.

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WHAT MAKES KAMINARIO'S ALL-FLASH ARCHITECTURE UNIQUE?

Kaminario's software-defined architecture is a hardware agnostic framework that delivers best-in-class capabilities while leveraging falling price points and advances in commodity CPU power, networking and flash media.

Scalability: Kaminario's software defined architecture scales both up and out delivers extreme flexibility for rapidly growing businesses. Businesses can scale up for higher density and lower cost/GB—and also scale out to add more nodes for greater processing capability. Kaminario's Perpetual Array™ enables customers to add the newest flash media, CPU, and networking functionality to existing implementations with non-disruptive expansions.

Performance: Kaminario can scale out ensure consistent I/O performance as data volumes grow. Further, Kaminario uses proprietary algorithms to ensure consistently high performance for mixed application workloads. IT can better control latency, IOPs performance and bandwidth on a per-application basis. Selective inline de-duplication shuts off processing on part of a storage array for specific workloads to further increase performance.

Cost-efficiency: Kaminario's ability to scale out enables customers to scale more cost effectively. A software-defined architecture fully leverages the commodity economics of flash, CPU and networking technologies with the ability to incorporate the newest, most cost-effective technologies into existing implementations. Finally, industry leading capacity efficiency enables Kaminario to offer Guaranteed Effective Capacity: where customers are guaranteed the ability to meet usable capacity goals set at the beginning of projects.

Simplicity: Free IT from expensive data migrations and forklift upgrades. Kaminario's software defined architecture enables flexible and non-disruptive expansions, up and out. New hardware can be added without costly downtime while the array continues to perform at full speed.

Resiliency: Kaminario combines an active-active controller architecture, high availability features, a proprietary version of RAID-6 called K-RAID, and native replication to deliver best-in class availability and resiliency. Always-on, data-at-rest 256-bit AES encryption capabilities support compliance with industry and government regulations without compromising storage efficiency.

ALL-FLASH STORAGE STRATEGIES FOR THE MODERN DATACENTER

Kaminario allows IT to implement an all-flash strategy for all tier-1 storage workloads, ranging from customer-facing online applications like eCommerce online banking, analytics, VDI to general datacenter virtualization. No special tuning is required—mixed workloads can run in the same array. With average pricing of less than \$1/usable GB, the Kaminario K2 is equipped to be the backbone of your storage strategy.

Dot Foods: A Kaminario success story. The largest food redistributor in the US found itself out of capacity in its HDD array for its ERP system (4,200 users and 180TB of effective capacity). Kaminario delivered a flexible and scalable infrastructure for both production and disaster recovery. Runtimes for select PeopleSoft batch processes have improved by more than 30%. A 5:1 data reduction rate gives Dot Foods maximum capacity efficiency, while a smaller footprint and lower power and cooling costs reduce the company's TCO.

With Kaminario, Dot Foods is confident that they can reliably meet the commitments to their customers as the business continues to grow.

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- Databases:** Deploy production database workloads on all-flash storage with Kaminario. The K2 maintains consistent IOPs, throughput and low latencies, and comes with native technologies like writeable snapshots, selective de-duplication and inline compression.
- Analytics:** Run analytics and OLTP workloads on the same production databases with Kaminario. The K2 can scale up for expanding data sets and scale out for more throughput and IOPs for preparation and analysis workloads.
- VDI Deployments:** Global, inline selective deduplication lowers virtual desktop storage requirements up to 95%. Consistent performance under load extends the scope of VDI to performance-sensitive expert users.
- Virtual Server Consolidation:** Kaminario's ability to efficiently scale up and out to handle demanding mixed workloads and blended IO make it an ideal primary storage for consolidating virtual servers. DevOps, QA testing and user training servers benefit from inline selective deduplication, and fast, native writeable snapshots.

Watch the Clearwater Analytics case study video here »

STORAGE THAT GETS YOU FROM **NOW TO NEXT**

- Kaminario's fifth-generation platform has a proven track record for performing in the most demanding modern datacenter. Gartner's 2015 Magic Quadrant for solid-state arrays named Kaminario as a visionary, and also among the top three vendors in critical capabilities such as online transaction processing; server virtualization; VDI; high performance computing and analytics.¹
- IDC highlights Kaminario's "...feature-rich enterprise-class platform...well suited for dense mixed virtual workload consolidation" and reports that "100% of Kaminario customers to date rank themselves as satisfied customers, and 80% of customers have increased their spend with Kaminario by 2-2.5 times within 12 months of their original purchase."²
- Kaminario is committed to providing world-class technical support. HealthShield™ cloud-based Call Home monitoring, a foundation of our support, enables Kaminario to proactively detect and resolve product issues.
- "The Kaminario K2 experience from sales to installation has been excellent, and we were able to realize a 400% performance improvement in the majority of our application environments."
—**Chris DiGiacomo, Systems Director, PetMed Express.**
- "What impresses me most is the support we receive. I have been doing this for 23 years and believe me when I say, I've had to deal with a lot. The Kaminario teams are second to none in their efficiency and professionalism."
—**Joel Andrews, Systems Engineer, Cobb EMC.**

Kaminario makes the all-flash datacenter a reality, delivering consistently high performance, flexible scalability without compromising cost-efficiency and control. Kaminario's unique set of capabilities deliver the benefits of all-flash at price points competitive with hybrid and legacy disk storage. Businesses can realize the full benefits of all-flash arrays so they are better positioned to successfully handle whatever comes next.

Call Kaminario **1-855-876-2441** to speak to an expert or email **info@kaminario.com**

STORAGE FOR WHAT'S NEXT

¹ Filks, Valdis, et. al., "Magic Quadrant for Solid-State Arrays, Gartner, June 2015.
² Burgener, Eric, "Kaminario Exhibits Major Market Momentum in the Hotly Contested AFA Market," IDC, April 2015.

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