

About ATTO

For over 30 years, ATTO Technology, has been a global leader across the IT and media & entertainment markets, specializing in network and storage connectivity and infrastructure solutions for the most data-intensive computing environments. ATTO works with partners to deliver end-to-end solutions to better store, manage and deliver data.

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About Kaminario

Kaminario solutions enable organizations to succeed in today's on-demand world and prepares them to seamlessly handle tomorrow's innovations. Only the Kaminario K2 all-flash array delivers the agility, scalability, performance and economics a data center requires to deal with today's cloud-first, dynamic world and provide real-time data access — anywhere, anytime. Hundreds of customers rely on Kaminario K2 to power their mission critical applications and safeguard their digital ecosystem.

Kaminario is headquartered in Needham, Massachusetts, with offices in Israel, London, Seoul and New York City. www.kaminario.com

ATTO and Kaminario

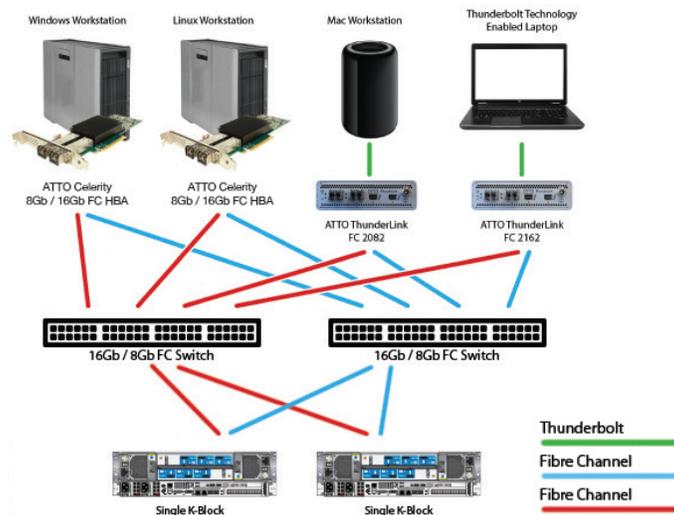
A Heterogeneous, Rich Media Solution for Digital Post-Production

The Challenge

The increasing volume of digital media – and the shift to higher-density 4K formats – means digital post-production organizations are struggling to meet their customers' demands for more capacity and faster processing. Typically each project must accommodate a plethora of servers and workstations, streaming multiple versions, e.g., different focal lengths, 3D left eye/right eye, and increasingly High Dynamic Range (HDR) 16-bit color palettes. With multiple copies and overprovisioning, some shops use as much as 300TB per project. In addition, workflow streams themselves have gotten more complex: each step, from ingesting different formats to transcoding to delivering masters, requires more digital capacity and processing power.

Some companies have tried to solve capacity challenges by over-subscribing storage, adding a new storage array per version or throwing more solid-state drives (SSDs) at legacy architecture. Such an approach is not only expensive and increases complexity, but does not always improve throughput. These solutions can still be “performance bound.”

In fact it takes more than “infinite storage.” The post-production company with the greatest advantage is the one that can process workflows faster, without losing quality. How do you do this without breaking the bank? Your customer requirements may have increased—but your budget has not.



Solution Benefits

ATTO and Kaminario are teaming up to provide a more efficient and cost-effective workflow that increases the revenue per version, as well as increasing the number of versions per month.

The solution provides the ability to connect heterogeneous network including Windows®, Linux®, and macOS® workstations and servers through a high-performance Fibre Channel network to the Kaminario K2 Storage Systems.

This provides post-production workflow with a cross-platform, balanced and flexible performance characteristics allowing for reliable support of both random access and sequential access intensive workloads.

Dynamic scheduling of the server-workstation infrastructure, coupled with parallel processing, means more effective use of an editor's talents. These combined benefits enhance post-production companies the ability to monetize their backlog faster. The Kaminario-ATTO solution allows your team to focus on the "create and not the wait" by providing:

- Streamlined 4K workflows on a single LUN without having to copy between storage arrays
- Supports up to eight concurrent 4K, 16bit TIFF image based sequences in 18RU rack servers. Delivers consistent multi-stream 4K playback of up to eight streams without interrupting concurrent processes
- Reduced storage footprint by up to 75% for media workflows. A single copy of media packages eliminates the need for over-subscription of media storage
- 25 GB/s throughput for the most demanding 4K media formats including 16-bit and HDR
- Reduced licensing costs for capacity-based software and eliminates the cost and performance overhead of de-fragging hard disk drive (HDD) storage
- The ability to connect and aggregate heterogeneous Windows, Linux and macOS workstations into a high-performance Fibre Channel network

Future Impacts

The ATTO-Kaminario solution allows teams to focus on the "create" and not the "wait." This means more teams will be able to develop more content at a faster pace without the hassle of a complicated storage system. These technologies, when paired together, allow for a high-performance media & entertainment solution that works with a multitude of platforms and file types. No matter what an editor is working with, the K2 array will be able to save to the same system as his team.



ATTO Products Supported/ Compatible Products

Storage System:	Kaminario K2 (two K-Blocks)
Drives:	48 – SSD
Fibre Channel HBA:	ATTO Celerity 164P quad channel 16Gb PCIe3.0 x8 Driver: 2.05MP Flash Bundle: 2016_06_22
Platform:	HP Z840 Intel Xeon E5-2620 v3 - 2.40GHz (Dual), 64Gb Memory Nvidia Quadro K4200 graphics, Windows 10
Test System:	AJA System Test v2.1
Setup:	1 KRAID group with 4 LUNs Striped with Windows

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The Power Behind the Storage

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