

## ATTO Technology and KIOXIA 24Gb SAS

### About ATTO

For over 35 years, ATTO Technology, Inc. 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. Working as an extension of customer's design teams, ATTO manufactures host bus adapters, network adapters, protocol bridges, Thunderbolt™ adapters, and software. ATTO solutions provide high level connectivity to all storage interfaces, including Fibre Channel, SAS/SATA, iSCSI, Ethernet, NVMe, NVMe over Fabrics and Thunderbolt. ATTO is the Power Behind the Storage.

### About KIOXIA

KIOXIA Corporation is a leading worldwide supplier of flash memory and solid-state drives (SSDs). From the invention of flash memory to today's breakthrough BiCS FLASH™ 3D technology, KIOXIA continues to pioneer innovative memory, SSD and software solutions that enrich people's lives and expand society's horizons. The company's innovative 3D flash memory technology, BiCS FLASH, is shaping the future of storage in high-density applications, including advanced smartphones, PCs, SSDs, automotive, and data centers.

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### Solution

24Gb SAS technology offers a host of benefits, including high-speed data transfer, scalability, reliability, compatibility, and security. However, performance remains the most beneficial feature of 24G SAS. Each 24Gb SAS lane supports a line rate of 22.5 Gb/s – twice that of 12Gb

24Gb SAS technology addresses the evolving data storage and access needs of modern businesses across various industries, making it a versatile and indispensable solution for optimizing data management and performance.

### Performance

KIOXIA, a leading manufacturer of SAS SSDs published performance results for their new PM6 series of 24Gb SAS SSDs compared to leading 12Gb SSDs. This shows the benefits of the increased line rate as well as advances in SSD technology.

Drive Capacity	7,680 GB	15,360 GB	30,720 GB
Sequential Read	+97%	+97%	+97%
Sequential Write	+86%	+105%	+117%
Random Read	+48%	+48%	+48%
Random Write	+72%	+72%	+33%

SAS continues to have a very prevalent place in the datacenter where applications need very high performance and large amounts of capacity for a practical cost. The ease of interchanging SATA HDDs, SAS HDDs and SAS SSDs in the same storage enclosures offers tremendous flexibility as well as growth paths as storage and performance requirements evolve.