Press Release

KIOXIA GP2 Series SSD Delivers New Levels of Performance for GPU Memory Expansion

Next-Generation Super High IOPS SSD Featuring KIOXIA XL-FLASH™ Generation 3 Memory Enables Direct GPU Access to Larger Datasets in AI Architectures



Germany, Düsseldorf, 26 November 2026 – KIOXIA Europe GmbH, today announced the KIOXIA GP2 Series Super High IOPS SSD, the second product in its KIOXIA GP Series of SSDs optimised for direct GPU access. Building on the technology and architecture of the KIOXIA GP1 Series SSD announced in August 2026, the KIOXIA GP2 Series delivers over 18 million random read IOPS at a 512-byte block size, nearly double the performance of its predecessor[1]. It also delivers sequential read throughput of up to 28 GB/s[2], enough to saturate a PCIe 6.0 x4 link.

Super High IOPS SSDs can expand the effective capacity of a GPU system's High Bandwidth Memory (HBM) by providing an additional flash-based memory tier directly accessible by the GPU, supporting industry efforts to improve AI system capability and efficiency. This approach enables AI systems to access larger datasets, including those used in large graph neural networks, at a lower cost than adding more HBM or DRAM, while improving GPU utilisation.

KIOXIA GP2 Series SSDs leverage the company's XL-FLASH™ generation 3 low-latency, high-performance flash memory, which is positioned to deliver higher endurance and approximately 2.5 times the IOPS of typical TLC-based SSDs[3], to support fine-grained data access needed for memory extension usage, and consume less power per I/O. Next generations of the KIOXIA GP Series will target up to 100 million random read IOPS.

Key features of the KIOXIA GP2 Series include:

- Designed to PCIe 6.0 and NVMe 2.3 specifications
- Features KIOXIA XL-FLASH™ generation 3 low-latency flash memory
- Random read performance of more than 18 million IOPS at 512-byte block size
- Form factors under consideration include E1.S 9.5 mm and E3.S
- Direct liquid cooling support
- Sequential read throughput performance of up to 28 GB/s
- Up to 50 DWPD endurance

"As AI workloads continue to grow in scale and complexity, the challenge is not simply to increase GPU memory capacity, but to make that capacity available more efficiently and economically," said Paul Rowan, Vice President & Chief Marketing Officer at KIOXIA Europe GmbH. "Building on the GP1 Series architecture, the KIOXIA GP2 Series nearly doubles random read performance, enabling GPUs to access larger datasets through a high-performance flash memory tier while reducing reliance on costly HBM expansion."

KIOXIA remains committed to advancing flash memory technology to help address the evolving performance and capacity demands of AI and high-performance computing architectures.

Evaluation samples of the KIOXIA GP2 Series SSDs will be available to select customers in the second half of 2027[4].

###

Notes:

[1] Compared to the KIOXIA GP1 Series SSDs in random read performance at a 512-byte block size. Based on KIOXIA testing.

[2] The sequential read throughput of up to 28 GB/s is an expected performance figure based on the PCIe 6.0 x4 bandwidth and evaluation results from the KIOXIA GP2 Series under development.

[3] Compared to KIOXIA CM10 Series SSDs in random read performance at a 512-byte block size. Based on KIOXIA testing.

[4] Samples are for functional evaluation purposes only. Specifications of samples may be different than mass production drives.

Read and write speed may vary depending on various factors such as host devices, software (drivers, OS etc.), and read/write conditions. Definition of capacity: KIOXIA Corporation defines a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1TB = 2^40 bytes = 1,099,511,627,776 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, and/or pre-installed software applications, or media content. Actual formatted capacity may vary.
DWPD: Drive Writes Per Day. One full drive write per day means the drive can be written and re-written to full capacity once a day every day under the specified workload for the specified lifetime. Actual results may vary due to system configuration, usage and other factors.

The following trademarks, service and/or company names – PCIe, PCI-SIG, NVMe, NVM Express - are not applied, registered, created and/or owned by KIOXIA Europe GmbH or by affiliated KIOXIA group companies. However, they may be applied, registered, created and/or owned by third parties in various jurisdictions and therefore protected against unauthorised use.

Product image shown in this press release is for illustrative purpose only. Final mass production product may vary.

About KIOXIA Europe GmbH

KIOXIA Europe GmbH is the European-based subsidiary of KIOXIA Corporation, a leading worldwide supplier of flash memory and solid-state drives (SSDs). From the invention of NAND flash memory to today's renowned BiCS FLASH™ 3D flash memory, KIOXIA continues to pioneer innovative memory solutions and services that enrich people's lives and expand society's horizons. The company's innovative BiCS FLASH™ 3D flash memory technology is shaping the future of storage in high-density applications, including advanced smartphones, PCs, automotive systems, data centers and generative AI systems. **Visit the KIOXIA website**

Contact details for publication: KIOXIA Europe GmbH, Hansaallee 183, 40549 Düsseldorf, Germany
Tel: +49 (0)211 368 77-0
E-mail: KIE-support@eu.kioxia.com

Contact details for editorial enquiries:
Lena Hoffmann, KIOXIA Europe GmbH
Tel: +49 (0) 211 36877 382
E-mail: lena.hoffmann@eu.kioxia.com



Issued by:

Birgit Schöniger, Pretzl GmbH

Tel: +49 (0)172 617 8431

E-mail: birgit.schoeniger@pretzl.com

Web: www.pretzl.com