

Press Release

KIOXIA Announces Next-Generation E1.S SSDs for AI and Hyperscale Environments

New KIOXIA NX1 Series Data Center NVMe SSDs Increase Performance and Support Direct Liquid Cooling



Germany, Düsseldorf, 29 July 2026 – [KIOXIA Europe GmbH](#) today announced the KIOXIA NX1 Series of solid-state drives (SSDs), a new generation of E1.S PCIe 5.0 NVMe data center SSDs, and KIOXIA's first SSD with direct liquid cooling support.

The KIOXIA NX1 Series features KIOXIA's next-generation, in-house developed controller architecture enabling impressive capabilities today while providing a foundation for future features. The new drives are engineered to deliver high-performance, power-efficient storage for GPU-enabled servers and hyperscale data center environments.



The KIOXIA NX1 Series is the successor model of the KIOXIA XD Series, and leverages PCIe 5.0 performance to help cloud service providers and hyperscale operators optimise infrastructure while maintaining operational efficiency. Compared to the previous generation⁽¹⁾, KIOXIA NX1 SSDs deliver up to 38% higher sequential write performance and up to 20% higher random write performance⁽²⁾.

As AI infrastructure continues to scale, storage must keep pace with increasingly dense, accelerator-rich server designs. The E1.S form factor helps maximise storage while supporting advanced thermal management, including cold-plate-compatible direct liquid cooling configurations that enable efficient heat dissipation in high-performance AI server environments.

“The KIOXIA NX1 Series is designed to enable this transition with direct liquid cooling capabilities and high-performance, power-efficient performance,” concludes Paul Rowan, Chief Marketing Officer & Vice President at KIOXIA Europe GmbH.

Additional features include:

- Available in E1.S 9.5 mm (supports direct liquid-cooling and air-cooling) and E1.S 15 mm form factors (supports air cooling)
- 1 DWPD (Drive Writes Per Day) for read-intensive applications; capacity lineup from 1.92 TB to 15.36 TB⁽³⁾.
- Compliant with PCIe 5.0, NVMe 2.0 and Open Compute Project (OCP) Datacenter NVMe SSD 2.6 specifications, as well as NVMe Flexible Data Placement (FDP) support
- Built with KIOXIA BiCS FLASH™ generation 8 TLC memory technology utilising CMOS directly Bonded to Array (CBA) architecture
- Optional TCG Opal-compliant Self-Encrypting Drive (SED) security model^[4]



The KIOXIA NX1 Series is currently sampling to select hyperscale customers. The new drives will be showcased at [FMS: the Future of Memory and Storage](#), taking place from 4 to 6 August in Santa Clara, California.

#

Notes:

1: Compared to KIOXIA XD8 Series SSDs

2: Read and write speed may vary depending on various factors such as host devices, software (drivers, OS etc.), and read/write conditions.

3: Definition of capacity: KIOXIA Corporation defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and 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 1GB = 2^{30} bytes = 1,073,741,824 bytes and 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.

4: SED optional model supports TCG Opal SSC except for some features. SED optional model is not available in all countries due to the local regulations.

The following trademarks, service and/or company names – PCIe, PCI-SIG, NVMe, NVM Express, Inc., OPEN Compute Project (OCP) Foundation – 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.

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 centres and generative AI systems.

Visit our [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