



Press Release

KIOXIA Announces Next-Generation EDSFF E1.S SSDs for Hyperscale Data Centers

New KIOXIA XD7P Series Data Center NVMe SSDs Deliver Improved Performance with PCIe 5.0 Technology



Düsseldorf, Germany, 19 October 2022 – [KIOXIA Europe GmbH](#) today announced that it has expanded its broad portfolio of client, enterprise and data center SSDs, with the addition of the KIOXIA XD7P Series Data Center NVMe SSDs. Designed for hyperscale and general server applications in the new Enterprise and Data Center Standard Form Factor (EDSFF) E1.S form factor, XD7P drives are the second generation of KIOXIA's E1.S SSDs with Open Compute Project (OCP) Data Center NVMe SSD support, following its KIOXIA XD6 Series.

“Hyperscale needs of density, power, performance and serviceability are driving PCIe 5.0 E1.S as a form factor, and the OCP Datacenter NVMe SSD specification V2.0 for the data center,” said Ross Stenfort, hardware storage engineer, Meta. “The KIOXIA XD7P Series SSD supports these storage technologies, to enable the next generation of hyperscale needs.”

XD7P Series Data Center NVMe SSDs deliver overall improved performance, achieving nearly 1.5 to 2X the sequential write performance and random read/write performance, when compared to their predecessors. These drives are designed to PCIe 4.0 and NVMe 2.0 specification, and PCIe 5.0 with maximum interface speed of 32 GT/s per lane is under development. Hence, XD7P will be released initially as PCIe 4.0 SSDs. PCIe 5.0 SSDs will be released based on customer demand.

Based on KIOXIA's 5th generation BiCS FLASH 3D flash memory technology, the XD7P Series utilizes a proprietary KIOXIA controller, which can be adapted to customer needs. The E1.S form factor will be available in heights of 9.5mm, 15mm and 25mm with heat sink options. Capacities will be available up to 7.68 TB with 1 DWPD endurance. TCG Opal SSC SED security options will also be offered^[1].

“Next Generation cloud and edge platforms need to tackle the challenges arising from thermal and signal integrity requirements,” said Frederik Haak, Senior Manager SSD Marketing, KIOXIA Europe GmbH. “With the XD7P Series, KIOXIA's new generation of E1.S form factored Data Center PCIe and NVMe SSD offers an excellent choice for cloud and system architects with focus on future proof platform design.”

KIOXIA's XD7P drives are now sampling to select data center customers.^[2]

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Notes

^[1] Availability of security/encryption options may vary by region.

^[2] Engineering samples are for OEM customer evaluation. The specifications may differ from those at the time of mass production.

*DWPD: Drive Write(s) 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 for five years, the stated product warranty period. Actual results may vary due to system configuration, usage and other factors. Read and write speed may vary depending on the host device, read and write conditions, and file size.

*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 = 2³⁰ bytes = 1,073,741,824 bytes and 1TB = 2⁴⁰ 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.

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About KIOXIA Europe GmbH

KIOXIA Europe GmbH (formerly Toshiba Memory 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 flash memory to today's breakthrough BiCS FLASH, KIOXIA continues to pioneer cutting-edge memory solutions and services 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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