



KIOXIA Introduces PCIe® 4.0 Storage Class Memory SSDs



New KIOXIA FL6 Series Leverages KIOXIA's XL-FLASH to Bridge Gap Between DRAM and TLC-based SSDs, Accelerate Latency-Sensitive Applications

Düsseldorf, Germany, 14 September 2021 – Low latency, high endurance Storage Class Memory (SCM) is coming to KIOXIA NVMe™ SSDs. [KIOXIA Europe GmbH](#), a world leader in memory solutions, is now sampling its KIOXIA FL6 Series enterprise NVMe SCM SSDs. Featuring KIOXIA's SCM solution, XL-FLASH, the dual-port and PCIe® 4.0-compliant KIOXIA FL6 Series SSDs bridge the gap between DRAM and TLC-based drives, making them well-suited to latency-sensitive use cases such as caching layer, tiering and write logging.

Based on KIOXIA's innovative BiCS FLASH™ 3D flash memory technology with 1-bit-per-cell SLC, XL-FLASH brings low latency and high performance to data center and enterprise storage. While volatile memory solutions such as DRAM provide the access speed needed by demanding applications, it comes at a high cost. SCM addresses this by providing high density, cost effective non-volatile flash memory.

The KIOXIA FL6 Series performs well on low queue depth workloads but its true strengths are revealed as workloads become more demanding and mixed. In these environments, KIOXIA FL6 drives deliver reliable quality of service - a critical attribute for a wide variety of latency-sensitive applications.

KIOXIA FL6 Series Highlights

- PCIe 4.0 and NVMe 1.4 specification compliant; ready for NVMe-oF™ deployments
- Native dual-port for high-availability and resiliency
- 60 DWPD endurance and capacities from 800 GB to 3.2 TB
- Enterprise reliability of 2.5M hours MTBF
- SED and FIPS 140-2 security options^[1]

The KIOXIA FL6 Series is now sampling to key industry partners and customers.

Notes

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

* Definition of capacity: KIOXIA 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 = 1,073,741,824 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, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

*The following trademarks, service and / or company names

- PCIe
- PCI Express
- NVMe
- NVMe-oF
- NVM Express

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*Information in this document, including product prices and specifications, content of services and contact information, is correct on the date of the announcement but is subject to change without prior notice.

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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