



## Press Release

### **KIOXIA Develops Broadband SSD with Optical Interface for Next-Generation Green Data Centers**

Exhibition and demonstration of a prototype at FMS's KIOXIA booth

**Germany, Düsseldorf, 07 August 2024** – [KIOXIA Europe GmbH](#), a world leader in memory solutions, will demonstrate a prototype of a broadband SSD with an optical interface for next-generation data centers at FMS (the Future of Memory and Storage, formerly Flash Memory Summit), being held in Santa Clara, California, USA from 06 August to 08 August.

Replacing electrical wiring with optical wiring within devices in data centers enables significant expansion of physical distances between devices, slimming down wiring, while maintaining energy efficiency and high signal quality. It also allows greater flexibility in data center system design and applications.

By adopting an optical interface, it is possible to aggregate individual components that make up systems such as SSDs and CPUs and seamlessly interconnect them, furthering the evolution of a "disaggregated computing system" that can efficiently utilise resources according to the workload. Additionally, with its high signal integrity, the optical interface is expected to contribute to high-performance computing system implementation that operate in harsh environments, such as space.

"The KIOXIA broadband SSD with optical interface prototype, when realised alongside other optical-based devices and systems within data center infrastructure has the potential to revolutionise data centers as we know them today", explains Axel Störmann, Chief Technology Officer & VP at KIOXIA Europe GmbH. "The new SSDs will allow the development of future 'greener' server environments offering not only overall energy efficiency but also greater storage efficiency, scale, and performance (improved throughput and latency)."

These accomplishments were achieved as a result of the Next Generation Green Data Center Technology Development project funded by the New Energy and Industrial Technology Development Organization (NEDO) under the Green Innovation Fund Project: Construction of Next Generation Digital Infrastructure.

In this grant project, next-generation technologies are being developed with one of the goals set out to achieve more than 40% energy savings compared to current data centers. As a part of this project, KIOXIA is developing broadband SSDs with an optical interface for data storage in next-generation green data centers.

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Notes:

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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 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, SSDs, automotive and data centers.

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