



Press Release

KIOXIA develops industry's first 2TB microSDXC memory card working prototypes



Düsseldorf, Germany, 28th September 2022 – [KIOXIA Europe GmbH](https://www.kioxia.com/europe), a world leader in memory solutions, today announced the development of the industry's first^[1] 2 terabyte (TB) microSDXC memory card working prototypes. Using its innovative BiCS FLASH™ 3D flash memory and an in-house-designed controller, basic functions of the KIOXIA 2TB microSDXC UHS-I memory card working prototypes were confirmed in the microSDXC standard's maximum density.

As the data recording capacity of smartphones, action cameras and portable game consoles continues to increase, the need for ultra-high-capacity SD memory cards to store all this data has never been higher. The SD Association's SDXC specification has supported memory cards up to 2TB for more than a decade – but 2TB cards have not been successfully manufactured until now.

Designed using the company's proprietary manufacturing technology, the KIOXIA 2TB card working prototypes are built by stacking sixteen 1 terabit dies of 3D flash memory and achieve a maximum thickness of 0.8mm at the die-mounting area – making them well suited to high-capacity data recording applications.

Mass production of the KIOXIA 2TB microSDXC memory cards is scheduled to begin in 2023.

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Notes

[1] As of September 28, 2022. KIOXIA survey.

*For KIOXIA products: Product density is based on the density of memory chip(s) within the product; not the amount of memory capacity available to the end user. Consumer-usable capacity will be less due to factors such as overhead data areas, formatting, bad blocks and other constraints, and may also vary based on the host device and application.

*SD logo, SDXC logo and microSDXC logo are trademarks of SD-3C LLC.

*All company names, product names and service names may be trademarks of their respective companies.

*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. [Visit our KIOXIA website](#)

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Ref. KIE089A_EN