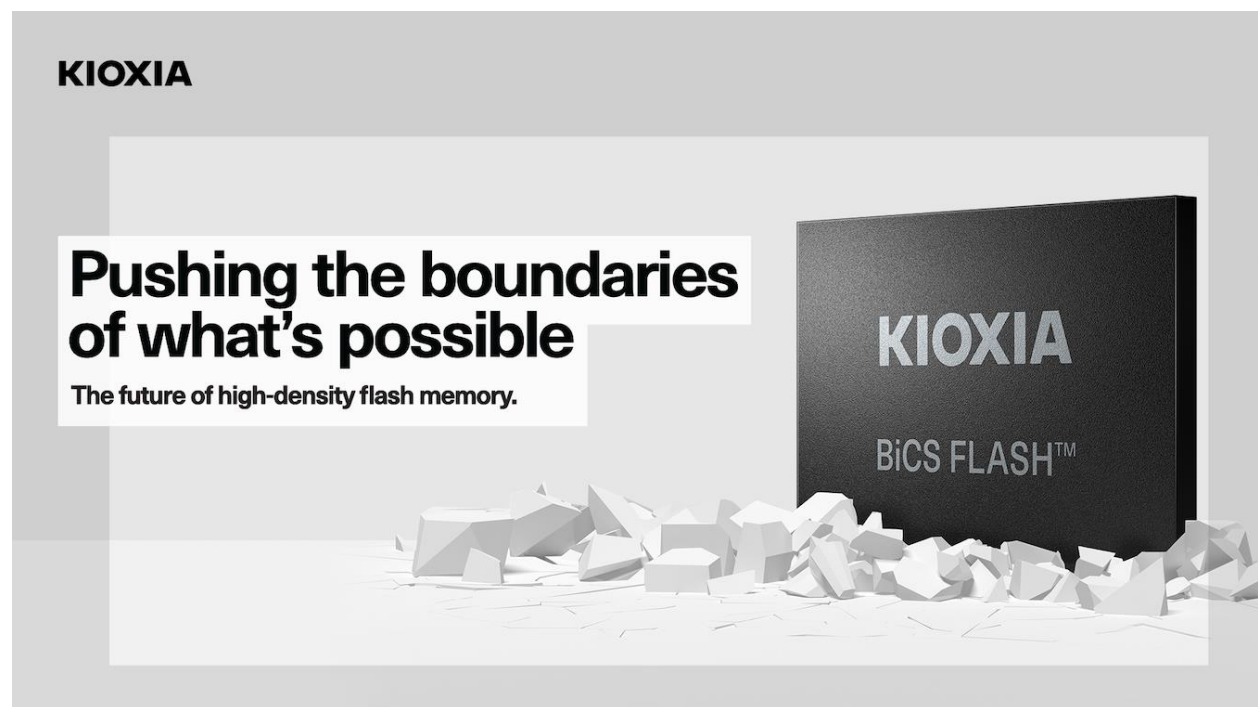




## Press Release

### KIOXIA Introduces Industrial Grade BiCS FLASH 3D Flash Memory

*Fifth Generation Devices Deliver Reliability, Ruggedness and Support for Industrial Temperatures*



Düsseldorf, Germany, 13 September 2022 – [KIOXIA Europe GmbH](#) has introduced new Industrial Grade flash memory devices. This new lineup utilizes the latest generation KIOXIA BiCS FLASH™ 3D flash memory with 3-bit-per-cell (triple-level cell, TLC) technology, and is available in a 132-BGA package. Densities range from 512 gigabits (64 gigabytes) to 4 terabits (512 gigabytes) to support the unique requirements of industrial applications – including telecommunication, networking, embedded computing and much more.

The storage requirements for many industrial applications stand in stark contrast to those of SSDs designed to be housed in climate-controlled data centers – including the need for extended temperature ranges and the ability to maintain high reliability and performance in rugged operating conditions. Designed with these needs in mind, the new KIOXIA devices support a wide temperature range (-40°C to +85°C) and offer suitable products for the industrial market.

Due to the fact that flash memory cell performance and reliability improve with a smaller number of bits per cell, the new KIOXIA devices feature 1-bit-per-cell (single-level cell, SLC) mode for applications that require faster write/read times and high cell endurance.

“KIOXIA is committed to supporting multiple industrial-grade solutions and accommodating applications that have long life cycles. With the addition of next-generation Industrial Grade BiCS FLASH 3D flash memory, we can now present an efficient and highly reliable embedded memory solution for environments requiring a wider temperature range and increased support for the processor,” said Axel Stoermann, KIOXIA Europe GmbH.

Sampling of the new KIOXIA Industrial Grade flash memory devices commenced earlier this year, with mass production expected late in the fourth quarter of 2022.

###

#### Notes

In every mention of a KIOXIA product: Product density is identified based on the density of memory chip(s) within the Product, not the amount of memory capacity available for data storage by the end user. Consumer-usable capacity will be less due to overhead data areas, formatting, bad blocks, and other constraints, and may also vary based on the host device and application. For details, please refer to applicable product specifications. The definition of 1KB =  $2^{10}$  bytes = 1,024 bytes. The definition of 1Gb =  $2^{30}$  bits = 1,073,741,824 bits. The definition of 1GB =  $2^{30}$  bytes = 1,073,741,824 bytes. 1Tb =  $2^{40}$  bits = 1,099,511,627,776 bits.

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

#### **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](#)

**Contact details for publication:**

KIOXIA Europe GmbH, Hansaallee 181, 40549 Düsseldorf, Germany

Tel: +49 (0)211 368 77-0

E-mail: [KIE-support@kioxia.com](mailto:KIE-support@kioxia.com)

**Contact details for editorial enquiries:**

Lena Hoffmann, KIOXIA Europe GmbH

Tel: +49 (0) 211 36877 382

E-mail: [lena1.hoffmann@kioxia.com](mailto:lena1.hoffmann@kioxia.com)

**Issued by:**

Birgit Schöniger, Publitek

Tel: +49 (0)4181 968098-13

E-mail: [birgit.schoeniger@publitek.com](mailto:birgit.schoeniger@publitek.com)

Web: [www.publitek.com](http://www.publitek.com)