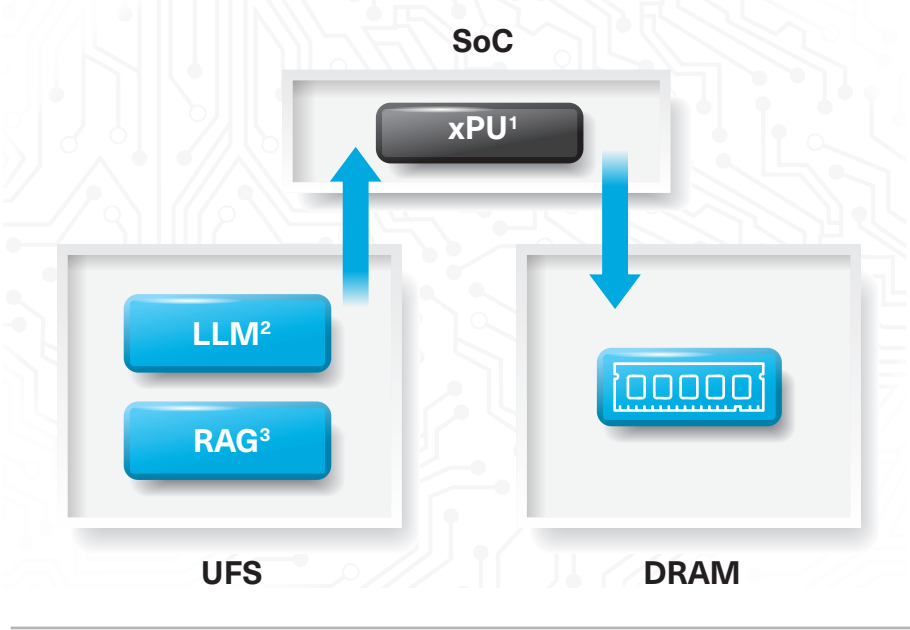


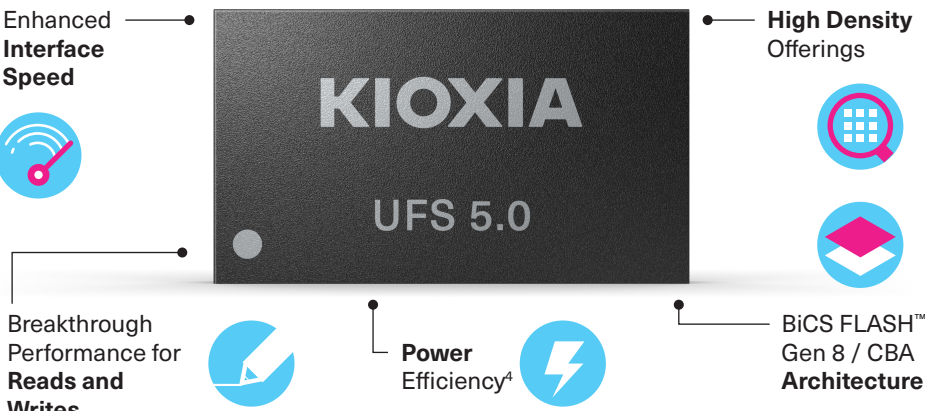
UFS 5.0 – The Storage Foundation for On-Device AI

As on-device AI transforms mobile, robotics, gaming, IoT, and security applications, KIOXIA UFS 5.0 delivers the high-performance, high-efficiency storage required to keep pace. Designed for the next AI era, UFS 5.0 enables faster data access, greater responsiveness and enhanced user experiences across a wide range of connected devices.

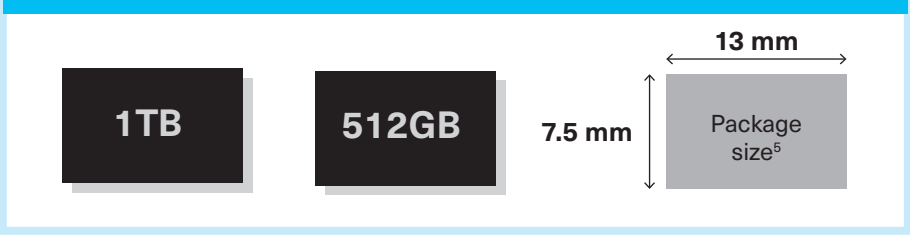
Powering AI with Faster Data Access



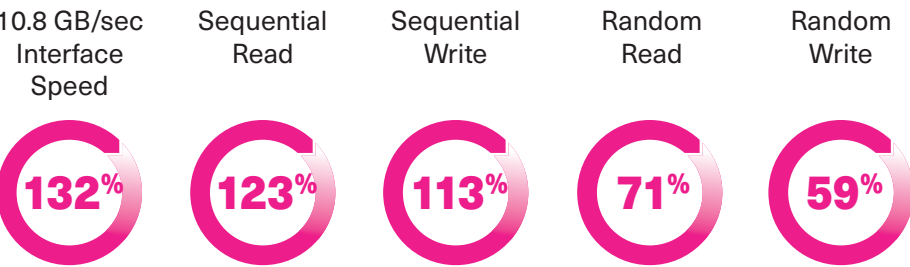
When Performance Counts – UFS 5.0 Delivers



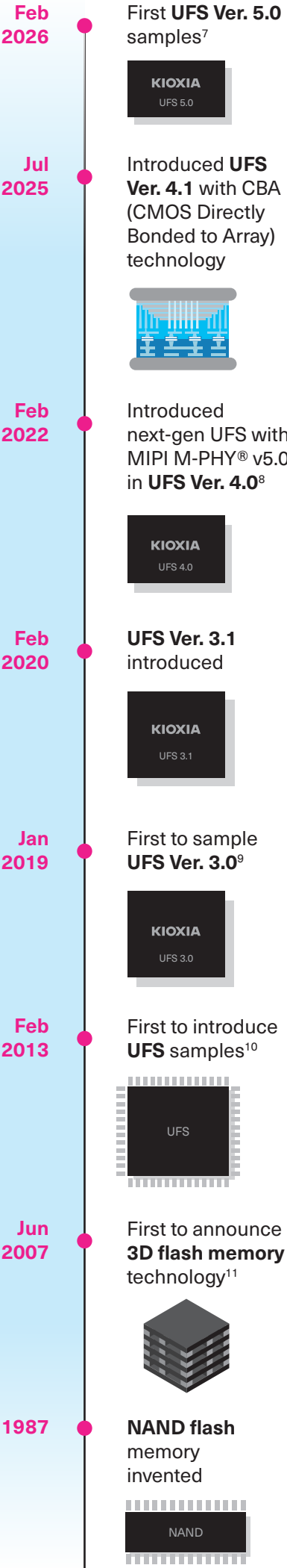
Densities and Packaging



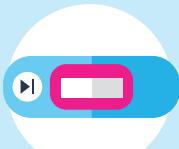
By the Numbers - UFS 5.0 Improvements⁶



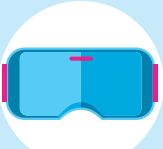
Leading the Way with UFS



Gaming Systems



Video Recording



AR/VR



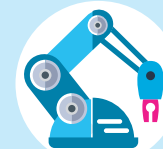
Smartphones



Tablets/Laptops



Smart Factory/IoT



Robotics



Security/
Smart Cameras

On-Device AI – Powering the Next Wave of Intelligent Devices

¹ xPU – referencing any type of processor that can be used for LLM inferencing. Most common would be NPU and TPU.

² LLM – Large Language Model.

³ RAG – Retrieval Augmented Generation.

⁴ Compared with the previous generation.

⁵ UFS 5.0 only.

⁶ Compared to UFS 4.1. Based on UFS 5.0 1TB device with driver level performance and write booster enabled.

⁷ Samples intended for functional evaluation only. Specifications of the samples will differ from commercial products.

⁸ MIPI Alliance Specification for M-PHY. MIPI® and M-PHY® are registered trademarks owned by MIPI Alliance.

⁹ <https://americas.kioxia.com/en-us/business/news/2019/memory-20190122-1.html>

¹⁰ <https://www.pnnews.com/news-releases/toshiba-ships-samples-of-industrys-first-universal-flash-storage-devices-190309341.html>

¹¹ KIOXIA first presented the concept for 3D NAND at the VLSI Symposium in 2007.

Universal Flash Storage (UFS) is a product category for a class of embedded memory products built to the JEDEC UFS standard specification. Due to its serial interface, UFS supports full duplexing, which enables both concurrent reading and writing between the host processor and UFS device.

JEDEC is a registered trademark of the JEDEC Solid State Technology Association.

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. In terms of product capacity, available user storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, pre-installed software applications, media content, and other constraints. Actual formatted capacity may vary. KIOXIA Corporation defines a gigabit (Gb) as 1,073,741,824 bits, 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. However, a computer operating system, reports storage capacity using powers of 2 for the definition of 1 GB = 2³⁰ bytes = 1,073,741,824 bytes and 1 TB = 2⁴⁰ bytes = 1,099,511,627,776 bytes.

1 Gbps is calculated as 1,000,000,000 bits/s and 1 GB/s is calculated as 1,000,000,000 bytes/s.

Read and write speeds are the best values obtained in a specific test environment at Kioxia Corporation and Kioxia Corporation warrants neither read nor write speeds in individual devices. Read and write speed may vary depending on a device used and file size read or written.

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