KIOXIA

The New Era of BiCS FLASH™ 3D Flash Memory

Spotlighting generation 10

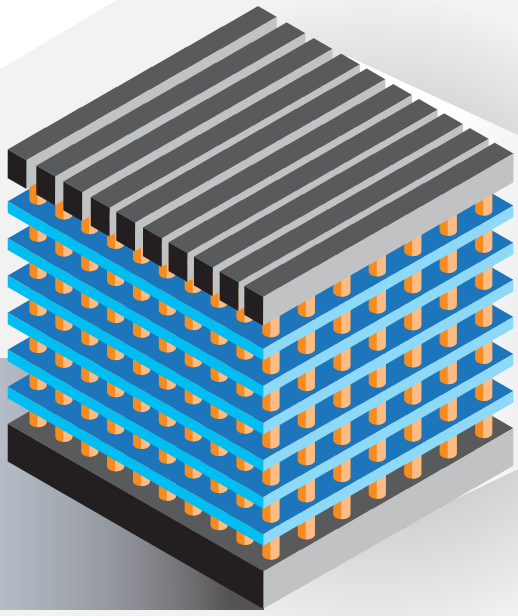
KIOXIA BiCS FLASH™ generation 10 3D flash memory features architectural innovations that achieve both higher performance and density[1] for data-centric applications. Targeted to data centers and enterprise applications, BiCS FLASH™ technology delivers a well-balanced mix of performance, capacity and footprint improvements.

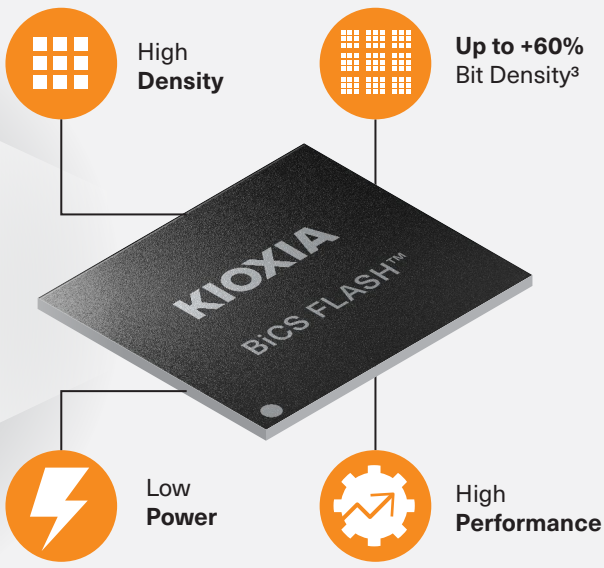
BiCS FLASH™

BiCS FLASH™ generation 10 - The Future of 3D Flash Memory

332
Layers

- Advanced **Cell Technology**
- SCA[2] Capable **CMOS Layer**



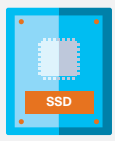


Applications


Data Center



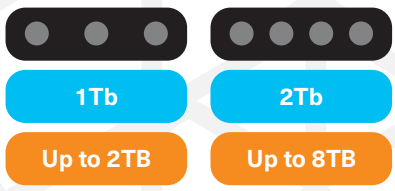
AI



Enterprise

TLC QLC

- Die Densities
- Package Densities



Performance Improvements[1]

Higher Interface Speed



Higher Read Throughput



Higher Write Throughput

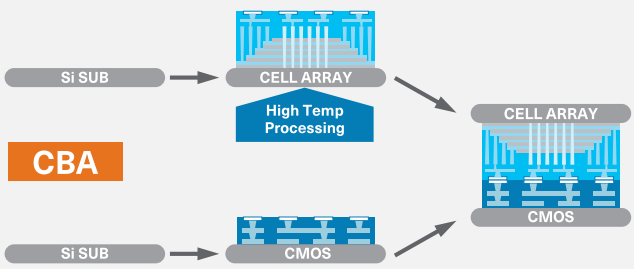


Better Power Efficiency



Innovative by Design: KIOXIA CBA Technology

KIOXIA BiCS FLASH™ generation 10 3D flash memory uses CBA (CMOS directly Bonded to Array) technology, in which the CMOS and cell array wafers are manufactured separately under optimized processes. The wafers are then bonded together to deliver higher bit density and faster NAND I/O speeds eliminating the trade-off between cell reliability and I/O speed.



KIOXIA

KIOXIA delivers flash-based products for next-generation storage applications. Having invented NAND flash over 35 years ago, KIOXIA is now one of the world's largest flash memory suppliers – and continues to move the technology forward.

[1] Compared to BiCS FLASH™ generation 8 TLC 3D flash memory
[2] SCA = Separate Command Address protocol
[3] 59% TLC bit density improvement and 60% QLC bit density improvement

*In every mention of a Kioxia product: Product density is identified based on the density of memory chips(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 = 2^30 bytes = 1,073,741,824 bytes and 1 TB = 2^40 bytes = 1,099,511,627,776 bytes.

Read and write speed may vary depending on various factors such as host devices, software (drivers, OS etc.), and read/write conditions.

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