KIOXIA

KIOXIA e-MMC

A Versatile and Popular Embedded Memory Technology

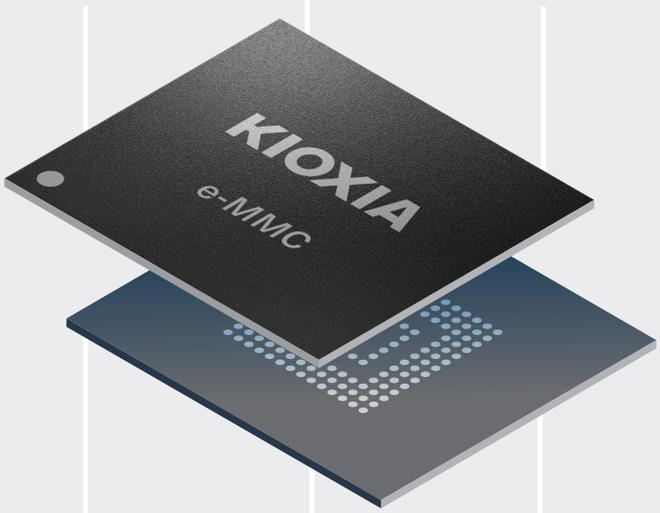
KIOXIA e-MMC devices feature NAND Flash and a controller in a single package and help customers to reduce host processor workload, shorten time to market and improve ease of use. This widely adopted technology has a well-supported ecosystem that simplifies the design-in process. e-MMC is an ideal memory technology for a wide variety of consumer applications.

Features and Benefits

Commercial and Industrial **Temp Range**

Small BGA Package

JEDEC Standard Compliant



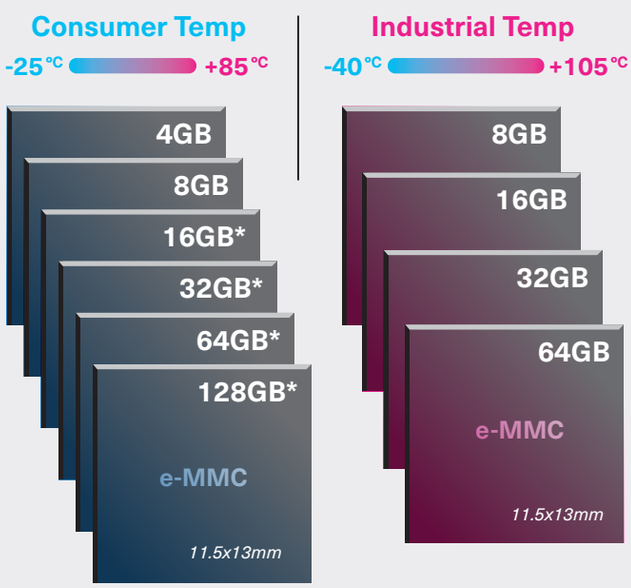
Low Power for battery life optimization

Broad Support by SoC Suppliers

Fully Managed **Solution** (internal controller)

Densities and Packaging

A Broad Range of Available Densities and Temperature Options



**Available with BiCS FLASH 3D Flash Memory technology. 4GB also available in 11x10mm*

Why e-MMC?

Design **Flexibility**

Well Established **Ecosystem**

Large Storage **Capacity** in a Small Package

BiCS FLASH™ 3D Flash Memory

KIOXIA continually migrates higher capacity e-MMC devices to 3D flash memory

BiCS FLASH™

Target Applications

e-MMC is a Popular Memory Solution for a Range of Applications:

Laptop PCs

POS

Streaming Media Players

Printers

Set Top Boxes

Digital TVs

Personal Navigation Devices

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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.

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.

e-MMC is one of the standard specifications of embedded flash memory defined by JEDEC.