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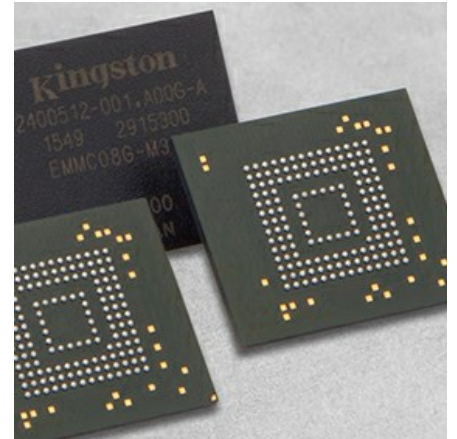


eMMC Component - Embedded Multi-Media Controller for device manufacturers

Kingston eMMC™ is an embedded, non-volatile memory system, comprised of both Flash memory and a Flash memory controller, which simplifies the application interface design and frees the host processor from low-level Flash memory management. eMMC is a popular storage component for many consumer electronic devices, including smartphones, tablets and Mobile Internet Devices. It is increasingly adopted in many industrial and embedded applications.

For developers, eMMC simplifies the interface design and qualification process, resulting in a reduction in time to market and facilitates support for future Flash device offerings.

Small BGA package sizes and low power consumption make eMMC a viable, low-cost memory solution for mobile and embedded products. To better meet the requirement of many space-constrained wearable and IoT applications, Kingston has released the world's smallest eMMC package with standard JEDEC footprint. The technology specifications of eMMC are managed by JEDEC, the global leader in developing open standards for the microelectronics industry.



Kingston I-Temp eMMC

Kingston's I-temp eMMC product complies with the latest JEDEC eMMC standard and is backward compatible with previous eMMC standards. It has all the advantages of standard eMMC and the operating temperature range of the device meets industrial operating temperature requirements (-40°C~85°C), making it an ideal storage solution for harsh outdoor environments and automotive applications.

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eMMC Part Numbers and Specifications

Part No.	Capacity	eMMC Standard	Package	NAND
EMMC04G-M627	4GB	5.0/5.1 (HS400)	11.5x13x1.0	MLC
EMMC04G-M657	4GB	5.0/5.1 (HS400)	9.0x7.5x0.8	MLC
EMMC08G-MB29	8GB	5.1 (HS400)	11.5x13x0.8	3D TLC in pMLC
EMMC16G-TB29	16GB	5.1 (HS400)	11.5x13x0.8	3D TLC
EMMC32G-TB29	32GB	5.1 (HS400)	11.5x13x0.8	3D TLC
EMMC32G-TA29	32GB	5.1 (HS400)	11.5x13x0.8	3D TLC
EMMC64G-TA29	64GB	5.1 (HS400)	11.5x13x0.8	3D TLC

EMMC128-TA29	128GB	5.1 (HS400)	11.5x13x1.0	3D TLC
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I-Temp eMMC Part Numbers and Specifications

Part No.	Capacity	eMMC Standard	Package	NAND	Operating Temperature
EMMC04G-W627	4GB	5.0/5.1 (HS400)	11.5x13x1.0	MLC	-40°C~+85°C
EMMC16G-IB29	16GB	5.1 (HS400)	11.5x13x0.8	3D TLC	-40°C~+85°C
EMMC32G-IB29	32GB	5.1 (HS400)	11.5x13x0.8	3D TLC	-40°C~+85°C
EMMC64G-IB29	64GB	5.1 (HS400)	11.5x13x0.8	3D TLC	-40°C~+85°C

Kingston eMMC Adapter

For designs that don't have an eMMC footprint laid out yet, these eMMC to SD/MMC adapters let users test eMMC through an SD/MMC slot without changing the PCB layout.



eMMC Adapter Part Numbers

Part No.	Description
EMMC04G-M627-ADP	4GB eMMC adapter
EMMC08G-MB29-ADP	8GB eMMC adapter
EMMC16G-TB29-ADP	16GB eMMC adapter
EMMC32G-TA29-ADP	32GB eMMC adapter
EMMC64G-TA29-ADP	64GB eMMC adapter
EMMC128-TA29-ADP	128GB eMMC adapter

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