

e•MMC –

the perfect storage solution for mobile and embedded applications.

Overview

Kingston[®] *e*•MMC[™] Flash memory follows the JEDEC *e*•MMC 5.1 standard and encloses the NAND Flash and *e*•MMC controller inside one JEDEC standard package to provide a standard interface to the host CPU. The *e*•MMC controller directs the Flash management, including ECC, wear-leveling, IOPS optimization and read sensing, significantly reducing the storage management burden on the host CPU. A universal storage solution, Kingston *e*•MMC is ideal for many electronic devices, including: smartphones, tablet PCs, eBook readers, electronic learning products, smart TVs, set-top boxes, smart home appliances and many wearable devices. Beyond its use in consumer products, *e*•MMC is being rapidly adopted in many other embedded applications, such as Single Board Computers (SBC), robotics, medical devices, networking and building control devices because of its compact size, low-power consumption and numerous enhanced features. With the rapid growth of the loT market, *e*•MMC is finding its way to newer applications.

Key Benefits

- Simplifies system design and reduces time to market. The standard interface makes fast-changing NAND technology invisible to the host and the host processor doesn't have to keep changing its software to accommodate every NAND technology change and variation. This helps to significantly reduce the design-in complexity and shorten the qualification cycle.
- Helps to improve whole system performance. The *e*•MMC controller frees up the host processor's valuable resources from NAND management so the host processor can use its processing power on other tasks.
- Provides a cost-effective solution. As opposed to SLC NAND, e•MMC uses MLC NAND so it makes higher capacity storage in embedded applications much more affordable and enables today's embedded designs to meet increasing demands for storage.

Part Number	Capacity	<i>e</i> •MMC 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-M325	8GB	5.0/5.1 (HS400)	11.5x13x1.0	MLC
EMMC16G-TB29	16GB	5.1 (HS400)	11.5x13x0.8	3D TLC BiCS3
EMMC32G-TB29	32GB	5.1 (HS400)	11.5x13x0.8	3D TLC BiCS3
EMMC32G-TA29	32GB	5.1 (HS400)	11.5x13x0.8	3D TLC BiCS3
EMMC64G-TA29	64GB	5.1 (HS400)	11.5x13x0.8	3D TLC BiCS3
EMMC128-TA29	128GB	5.1 (HS400)	11.5x13x1.0	3D TLC BiCS3

e•MMC Part Numbers and Specifications

For more information, please visit kingston.com/emmc

Key Features

JEDEC Standard Features	e•MMC 5.0	e•MMC 5.1
Boot Operation		\checkmark
Partitioning		\checkmark
Sleep Mode		
Replay Protected Memory Block		
Secure Trim/Secure Erase		
Hardware Reset		
Reliable Write		\checkmark
Background Operation		\checkmark
High Priority Interrupt		
DDR Interface		\checkmark
Discard/Sanitize CMD		\checkmark
Packed Commands, Context IDs		
Power OFF Notification		\checkmark
Data Tag		\checkmark
Device Health Report		\checkmark
Field FW Update		
Production State Awareness		
CMD Queuing		\checkmark



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