I-Temp e•MMC —
the perfect storage solution for harsh environment embedded applications.

Overview

Kingston® I-Temp e•MMC™ Flash memory offers JEDEC e•MMC5.1 features and is backward compatible to earlier e•MMC standards. It has all the advantages of standard e•MMC plus the operating temperature range of the device meets industrial operating temperature requirements (-40°C~+85°C), which make it an ideal storage solution for outdoor, harsh environment and automotive 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.
- Supports industrial operating temperature range (-40°C~+85°C)

I-Temp e•MMC Part Numbers and Specifications

Part Number	Capacity	e•MMC Standard	Package	Operating Temperature
EMMC04G-W627	4GB	5.0/5.1 (HS400)	11.5x13x1.0	-40°C~+85°C
EMMC08G-W325	8GB	5.0/5.1 (HS400)	11.5x13x1.0	-40°C~+85°C
EMMC16G-W525	16GB	5.0/5.1 (HS400)	11.5x13x1.0	-40°C~+85°C
EMMC32G-W525	32GB	5.0/5.1 (HS400)	11.5x13x1.0	-40°C~+85°C
EMMC64G-W525	64GB	5.0/5.1 (HS400)	11.5x13x1.0	-40°C~+85°C

For more information, please visit kingston.com/emmc

Key Features

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

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