

> e• MMC – PRODUCT LIST

Density	Item Name	Technology	JEDEC Standard	Temperature	Package
4GB	THGBMDG5D1LBAIT	15nm	JEDEC 5.0	-25°C to 85°C	153FBGA 11x10
8GB	THGBMHG6C1LBAIL	15nm	JEDEC 5.1	-25°C to 85°C	153FBGA 11.5x13
	THGBMHG6C1LBAWL	15nm	JEDEC 5.1	-40°C to 85°C	153FBGA 11.5x13
16GB	THGBMHG7C1LBAIL	15nm	JEDEC 5.1	-25°C to 85°C	153FBGA 11.5x13
	THGBMHG7C2LBAWR	15nm	JEDEC 5.1	-40°C to 85°C	153FBGA 11.5x13
32GB	THGBMHG8C2LBAIL	15nm	JEDEC 5.1	-25°C to 85°C	153FBGA 11.5x13
	THGBMHG8C4LBAWR	15nm	JEDEC 5.1	-40°C to 85°C	153FBGA 11.5x13
64GB	THGBMHG9C4LBAIR	15nm	JEDEC 5.1	-25°C to 85°C	153FBGA 11.5x13
	THGBMHG9C8LBAWG	15nm	JEDEC 5.1	-40°C to 85°C	153FBGA 11.5x13
128GB	THGBMHT0C8LBAIG	15nm	JEDEC 5.1	-25°C to 85°C	153FBGA 11.5x13

> e• MMC – SPECIALIZED VERSIONS

Does your application require faster data throughput? Toshiba offers enhanced versions of its 16GB and 32GB e-MMC on demand. Please contact your Toshiba representative or qualified distributor for more information.

> e• MMC – DESIGN GUIDELINE & DESIGN CHECK SHEET

To support your e-MMC design, Toshiba offers a design guideline and a design check sheet. The design guideline highlights some of the key topics to be considered when selecting and utilizing a Toshiba e-MMC. The design check sheet can be used to give more detailed information about the individual usage scenario for the e-MMC. Both files are available at your local Toshiba representative or a qualified distributor.

> e• MMC – ENHANCED USER DATA AREA

Toshiba's e-MMC products support the JEDEC compliant "Enhanced User Data Area," also called "pseudo-SLC." For applications requiring the memory to perform with higher write/erase cycles than MLC NAND can offer, the e-MMC provides the option to build a partition which offers "pseudo-SLC" performance.

> INNOVATION IS OUR TRADITION: FLASH MEMORY AND MORE

In 1984, Toshiba developed a new type of semiconductor memory called flash memory, leading the industry into the next generation ahead of its competitors. Some time later in 1987, NAND flash memory was developed, and this has since been used in a variety of memory cards and electronic equipment. The NAND flash market has grown rapidly, with flash memory becoming an internationally standardized memory device. As the inventor of flash memory, Toshiba has carved out a path to a new era in which we are all able to carry videos, music and data with us wherever we go.

e-MMC™ is the trademark of JEDEC/MMCA

Product density is identified based on the maximum 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.

Maximum read and write speed may vary depending on the host device, read and write conditions, and file size.

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