

Memories/Storages Devices

▼ NAND Flash Memory

▼ MLC NAND

▶ Card Interface : e-MMC

▶ NAND Interface:
SmartNAND™

▶ SLC NAND

▶ Media Card

▶ MCP Memory

▶ Documents

▶ EOL Products

▶ News Release/Topics

Parametric Search

Category

All

Go

Card Interface : e-MMC

e-MMC™ is a family of NAND flash memories with control functionality such as ECC, wear leveling and bad-block management. e-MMC™ also provides a high-speed memory card interface compliant with JEDEC/MMCA Version 4.41/4.5, eliminating the need for users to be concerned about directly controlling NAND flash memories. Thus, e-MMC™ can easily be used as an embedded MultiMedia Card (MMC) memory.

Product list of e-MMC™

Capacity	Part Number	Class	e-MMC Version	Max. Speed (MHz)	Supply Voltage		Operating Temperature (°C)	Package
					V _{CC} (V)	V _{CCQ} (V)		
4 GB	THGBM5G5A1JBAIR	Premium	4.41a	200	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-25 to 85	P-VFBGA153-1113-0.50-002
	THGBMAG5A1JBAIR*		4.5					
	THGBM5G5A1JBAIT*		4.41a					P-WFBGA153-1110-0.50-001
	THGBMAG5A1JBAIT*	I-Ver.	4.5				-40 to 85	
	THGBMAG5A1JBAWR**							
8 GB	THGBM5G6A2JBAIR	Premium	4.41a				-25 to 85	P-VFBGA153-1113-0.50-002
	THGBMAG6A2JBAIR*		4.5				-40 to 85	
	THGBMAG6A2JBAWR**	I-Ver.						
16 GB	THGBM5G7A2JBAIR*	Premium	4.41a				-25 to 85	P-VFBGA169-1216-0.50-001
	THGBMAG7A2JBAIR*		4.5					
	THGBM5G7B2JBAIM	Supreme	4.41a					
	THGBMAG7B2JBAIM*							
	THGBMAG7B2JBAWM**	I-Ver.	4.5				-40 to 85	
32 GB	THGBM7G8T4JBAIR*	Prime					-25 to 85	P-VFBGA153-1113-0.50-002
	THGBM5G8A4JBAIR*	Premium	4.41a					
	THGBMAG8A4JBA4R*		4.5					
	THGBM5G8B4JBAIM	Supreme	4.41a					P-VFBGA169-1216-0.50-001
	THGBMAG8B4JBAIM*		4.5					
64 GB	THGBM7G9T8JBAIG*	Prime						P-TFBGA153-1113-0.50B4
	THGBM5G9A8JBAIG*	Premium	4.41a					
	THGBMAG9A8JBA4G*		4.5					
	THGBM5G9B8JBAIE	Supreme	4.41a					P-TFBGA169-1216-0.50A4
	THGBMAG9B8JBAIE*		4.5					

* : New product

** : Under development

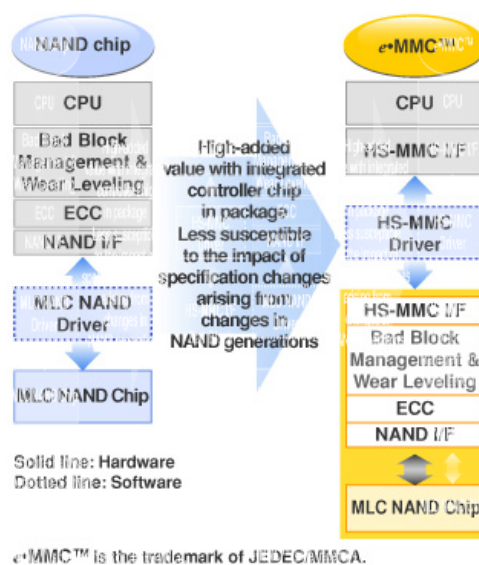
e-MMC™ is the trademark of JEDEC/MMCA.

Ver.4.41a is compatible with Ver.4.41 and has some of the major features of Ver.4.5.

Contact the Toshiba sales representative for information about RoHS compliance before you purchase any components.

Contact the Toshiba sales representative for sample schedule about products under development.

Details about your intended usage would be checked before submitting samples of the I-Ver. class product.



Links

MLC NAND

- Card Interface : e-MMC
- [NAND Interface: SmartNAND™](#)

Contacts

If you have any queries, click one of these links:

- Technical queries
 - [Inquiry sheet](#)
- Queries about purchasing, sampling and IC reliability
 - [Toshiba Global Sales](#)
 - [For Online Purchase](#)

A new window will open.

[▲ To Top](#)

Products

- Memories/Storages Devices
- Storage Products (SSDs / HDDs)
- General-Purpose Logic ICs
- Transistors
- Diodes
- Optical Semiconductor Devices
- Sensors
- Radio-Frequency Devices
- Microcomputer
- ASICs / Structured Arrays
- ASSPs
- General-Purpose Linear ICs
- Software IP

Applications

- Automotive
- Industry
- Power Supplies
- PC Peripheral
- Mobile
- Digital consumer electronics
- Home Appliances/Industrial Systems

Design/Support

- **Company Profile**
- **Sample/Purchase**
- **Terms of Use**