

- Main Menu**
- » [Home Page](#)
  - » Applications
  - » Products
    - » [ASIC & Foundry](#)
    - » [ASSPs](#)
    - » [Diodes](#)
    - » [Displays & Devices](#)
    - » [Driver IC](#)
    - » [General Purpose Linear ICs](#)
    - » [General Purpose Logic ICs](#)
    - » [Memory](#)
      - » [Emb. NAND Flash](#)
        - » [SLC NAND](#)
        - » [SLC NAND Small Block](#)
        - » [SLC NAND Large Block](#)
        - » [SLC NAND Large Capacity](#)
        - » [SLC NAND Toggle Interface](#)
        - » [BENAND™](#)
        - » [MLC NAND Flash](#)
        - » [eMMC™](#)
        - » [SmartNAND™](#)
      - » [MCP Memory](#)
      - » [Content Storage Solutions](#)
      - » [FlashAir™ Wireless LAN SD Card](#)
      - » [Cards & USB Sticks for Consumers](#)
    - » [Microcontroller](#)
    - » [Optical Semiconductor Devices](#)
    - » [Radio-Frequency Devices](#)
    - » [Sensors](#)
    - » [Solid State Drive \(SSD\)](#)
    - » [Transistors](#)
    - » [Wireless Systems](#)



[Home](#), [Memory](#), [NAND Flash](#), [MLC NAND](#), [eMMC™](#)

## eMMC™

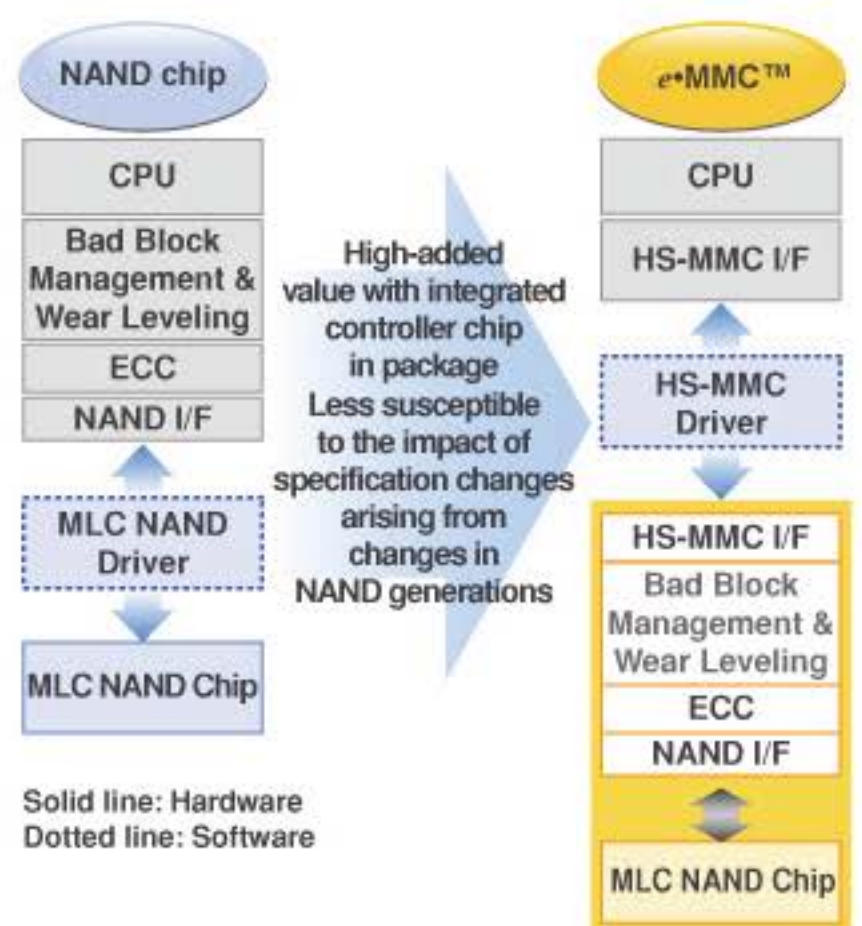
The interface of eMMC™ is compliant with Version 4.4/4.41 of the JEDEC eMMC™ standard for high-speed memory cards. Users can easily use eMMC™ in various products as an embedded MMC memory device (eMMC™ compliant). Since eMMC™ integrates a NAND flash memory and a controller chip in a single package, it can perform such controls as error corrections, wear leveling and bad-block management internally. All eMMC™ parts have compatible pin-layouts for all derivatives and generations. This frees users from the worry of control operations otherwise required for NAND flash memory, making it easy to use.

### Product List of eMMC™

Capacity	Part Number	e-MMC Version	Speed (MHz)	Power Supply		Operating Temperature (°C)	Package
				Vcc (V)	VccQ (V)		
2 GByte	THGBM4G4D1HBAIR	4.41	to 52		1.65 to 1.95, 2.7 to 3.62	-25 to 85	P-VFBGA153-1113-0.50-002
4 GByte	THGBM5G5A1JBAIR*	4.41 a	to 200		1.70 to 1.95, 2.7 to 3.6		
8 GByte	THGBM5G6A2JBAIR*	4.41 a	to 200		1.70 to 1.95, 2.7 to 3.6		
16 GByte	THGBM5G7A2JBAIM*	4.41 a	to 200	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-25 to 85	P-VFBGA169-1216-0.50-001
32 Gbyte	THGBM5G8A4JBAIM*	4.41 a	to 200				
64 Gbyte	THGBM5G9B8JBAIE*	4.41 a	to 200		1.70 to 1.95, 2.7 to 3.6		
128 Gbyte	THGBM4T0DBGBAIJ	4.41	to 52		1.65 to 1.95, 2.7 to 3.6		

\*: New Product

Please [contact Toshiba sales](#) to check the latest product information and request technical datasheets.



Solid line: Hardware  
Dotted line: Software

eMMC™ is the trademark of JEDEC/MMCA.

[Back to Top](#)  
[Back to Memory home](#)

- Memory**
- » [Contact Memory sales in Europe](#)
  - » [News Releases](#)
  - » [Documents](#)



- » Support
- » About Toshiba Electronics Europe
- Search**
  - » [Search Datasheets on Toshiba Semicon. site](#)
  - » [Site Search](#)