

Card Interface : e MMC

The interface of e MMC™ is compliant with Version 4.4/4.41 of the JEDEC e MMC™ standard for high-speed memory cards. Users can easily use e MMC™ in various products as an embedded MMC memory device (e MMC™-compliant). Since e MMC™ 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. This frees users from the worry of control operations otherwise required for NAND flash memory, making it easy to use.

Product list of e MMC™

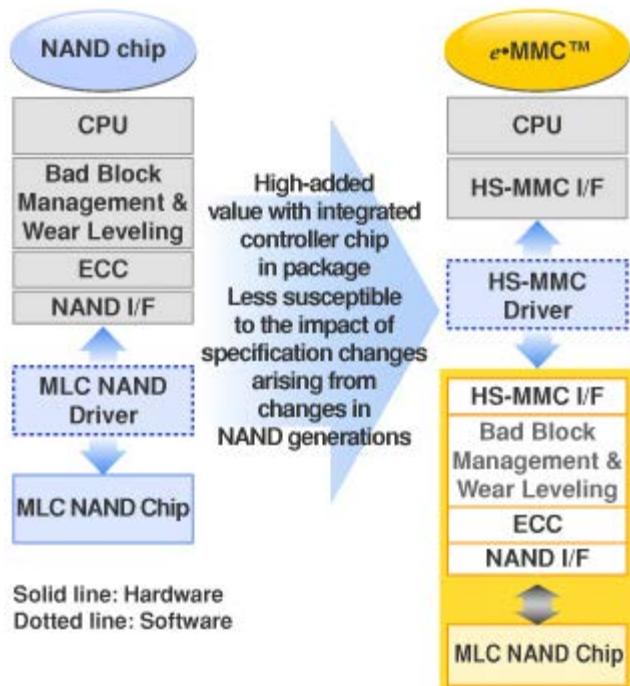
Capacity	Part Number	Classification	e-MMC Version	Speed	Power Supply		Operating Temperature (°C)	Package	
				(MHz)	V _{CC} (V)	V _{CCQ} (V)			
2 GB	THGBM4G4D1HBAIR	-	4.41	to 52	2.7 to 3.6	1.65 to 1.95, 2.7 to 3.6	-25 to 85	P-VFBGA153-1113-0.50-002	
4 GB	THGBM4G5D1HBAIR	-	4.41	to 52		1.65 to 1.95, 2.7 to 3.6			
	THGBM5G5A1JBAIR *	Premium	4.41a	to 200		1.70 to 1.95, 2.7 to 3.6			
8 GB	THGBM4G6D2HBAIR	-	4.41	to 52	2.7 to 3.6	1.65 to 1.95, 2.7 to 3.6		P-TFBGA169-1216-0.50A4	
	THGBM5G6A2JBAIR *	Premium	4.41a	to 200		1.70 to 1.95, 2.7 to 3.6			
16 GB	THGBM4G7D2GBAIE	-	4.4	to 52		1.65 to 1.95, 2.7 to 3.6		P-VFBGA169-1216-0.50-001	
	THGBM5G7A2JBAIM *	Premium	4.41a	to 200		1.70 to 1.95, 2.7 to 3.6			
	THGBM5G7B2JBAIM *	Supreme				1.65 to 1.95, 2.7 to 3.6			
32 GB	THGBM4G8D4GBAIE	-	4.41	to 52	2.7 to 3.6	1.65 to 1.95, 2.7 to 3.6	-25 to 85	P-TFBGA169-1216-0.50A4	
	THGBM5G8A4JBAIM *	Premium	4.41a	to 200		1.70 to 1.95, 2.7 to 3.6			
	THGBM5G8B4JBAIM *	Supreme				1.65 to 1.95, 2.7 to 3.6			
64 GB	THGBM4G9D8GBAII	-	4.41	to 52	2.7 to 3.6	1.65 to 1.95, 2.7 to 3.6	-25 to 85	P-TFBGA169-1418-0.50A4	
	THGBM5G9B8JBAIE *	Supreme	4.41a	to 200		1.70 to 1.95, 2.7 to 3.6			
128 GB	THGBM4T0DBGBAIJ	-	4.41	to 52	2.7 to 3.6	1.65 to 1.95, 2.7 to 3.6	-25 to 85	P-FBGA169-1418-0.50-001	

*: New product

e MMC™ is the trademark of JEDEC/MMCA.

"Ver.4.41a" is compatible with the Version 4.41 and has some main features of Version 4.5.

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



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