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2019/1/21

**TOSHIBA**

**TOSHIBA MEMORY CORPORATION**  
**Business - Memory & SSD (Asia Pacific)**

**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 Version 5.0/5.1, eliminating the need for users to be concerned about directly controlling NAND flash memories. Thus, e-MMC can easily be used as a storage device for embedded applications.

Capacity	Part Number	Class	e-MMC Version	Max Data Rate (MB/s)	Supply Voltage		Operating Temperature (°C)	Package	
					V <sub>cc</sub> (V)	V <sub>ccQ</sub> (V)		Size (mm)	
4 Gbytes	THGBMNG5D1LBAIT	Consumer	5.0	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-25 to 85	11×10×0.8	P-WFBG,
	THGBMNG5D1LBAIL	Consumer	5.0	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-25 to 85	11.5×13×0.8	P-WFBG,
8 Gbytes	THGBMHG6C1LBAIL	Consumer	5.1	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-25 to 85	11.5×13×0.8	P-WFBG,
	THGBMHG6C1LBAU6	Industrial	5.1	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-40 to 105 <sup>(1)</sup>	11.5×13×0.8	P-WFBG,
16 Gbytes	THGBMHG7C1LBAIL	Consumer	5.1	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-25 to 85	11.5×13×0.8	P-WFBG,
	THGBMHG7C2LBAU7	Industrial	5.1	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-40 to 105 <sup>(1)</sup>	11.5×13×1.0	P-VFBG/
32 Gbytes	THGBMHG8C2LBAIL	Consumer	5.1	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-25 to 85	11.5×13×0.8	P-WFBG,
	THGBMHG8C4LBAU7	Industrial	5.1	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-40 to 105 <sup>(1)</sup>	11.5×13×1.0	P-VFBG/
64 Gbytes	THGBMHG9C4LBAIR	Consumer	5.1	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-25 to 85	11.5×13×1.0	P-VFBG/
	THGBMHG9C8LBAU8	Industrial	5.1	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-40 to 105 <sup>(1)</sup>	11.5×13×1.2	P-TFBG/
128 Gbytes	THGBMHT0C8LBAIG	Consumer	5.1	400	2.7 to 3.6	1.70 to 1.95, 2.7 to 3.6	-25 to 85	11.5×13×1.2	P-TFBG/

Note (1): T<sub>c</sub>=115°C max.

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 Industrial class product.

·Before creating and producing designs and using, customers must also refer to and comply with the latest versions of all relevant TOSHIBA information and the instructions for the application that Product will be used with or for.



