

## 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.

Product list of e-MMC

| 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)   | Code                 |
| 4GB      | 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-WFBGA153-1110-0.50 |
|          | THGBMJG6C1LBAIL   | 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 | WFBGA153-1113-0.50   |
| 8GB      | THGBMJG6C1LBAU7   | 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-VFBGA153-1113-0.50 |
| 16GB     | THGBMJG7C1LBAIL   | 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-WFBGA153-1113-0.50 |
|          | THGAMRG7T13BAIL * | Consumer   | 5.1           | 400                  | 2.7 to 3.6          | 1.70 to 1.95             | -25 to 85                  | 11.5×13×0.8 | P-WFBGA153-1113-0.50 |
|          | THGBMJG7C2LBAU8   | 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-TFBGA153-1113-0.50 |
| 32GB     | THGBMJG8C2LBAIL   | 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-WFBGA153-1113-0.50 |
|          | THGAMRG8T13BAIL * | Consumer   | 5.1           | 400                  | 2.7 to 3.6          | 1.70 to 1.95             | -25 to 85                  | 11.5×13×0.8 | P-WFBGA153-1113-0.50 |
|          | THGBMJG8C4LBAU8   | 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-TFBGA153-1113-0.50 |
| 64GB     | THGAMRG9T23BAIL * | Consumer   | 5.1           | 400                  | 2.7 to 3.6          | 1.70 to 1.95             | -25 to 85                  | 11.5×13×0.8 | P-WFBGA153-1113-0.50 |
|          | THGBMJG9C8LBAU8   | 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-TFBGA153-1113-0.50 |
| 128GB    | THGAMRT0T43BAIR * | Consumer   | 5.1           | 400                  | 2.7 to 3.6          | 1.70 to 1.95             | -25 to 85                  | 11.5×13×1.0 | P-VFBGA153-1113-0.50 |

- Note (1) : Tc=115°C max.
- \* New Product : Contact the KIOXIA Corporation's sales representative for sample schedule about new products.
- Details about your intended usage would be checked before submitting samples of the Industrial class product.

Links

MLC/NAND Flash Memory

- e-MMC
- UFS
- e-MMC/UFS for Automotive Information & Entertainment Systems

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