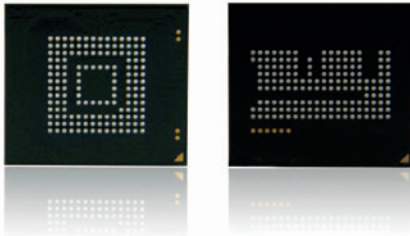


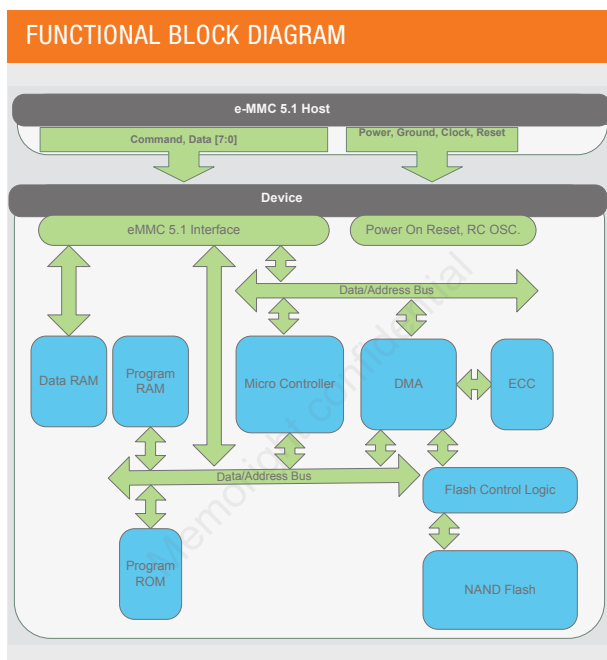
# e-MMC 5.1 EMBEDDED FLASH MEMORY – M1890 SERIES



Memoright **M1890 series** is an eMMC 5.1 compliance embedded flash memory module that integrates a slim controller and NAND flash into a BGA package for various consumer electronics applications such as smart phones, Tablet PC, GPS, etc. Memoright M1890 series provides low power mode to greatly extend battery lifetime and to achieve high performance for

up to 32 GB storage capacity that makes it an ideal solution for multimedia handsets. M1890 integrates advanced flash management technology to achieve balance between cost and performance. It supports three clock frequency of 0-200 MHz and also supports for data bus width modes of 1 bit, 4 bit and 8 bit. Besides, it integrates several patented method such as dynamic & static wear-leveling and advance block management to achieve highest data reliability and maximized flash life expectancy.

Memoright M1890's various advantages such as high performance, capacity and reliability make it the best eMMC storage solution for several consumer electronics devices such as mobile PC and personal handheld devices.



## FEATURES

- » Embedded with e-MMC flash controller and NAND flash
- » Field firmware update supported
- » Support sleep notification in power off notification
- » Device health report supported
- » Secure removal type supported
- » Command queuing supported
- » Mechanical design complies with JEDEC® standard
- » Support data bus widths of 1 bit, 4 bit, 8 bit
- » High performance up to 400 MB/s bus transfer rate
- » Power supply voltage (VCC): 3.3V
- » Power supply voltage range (VCCQ): 1.8V ... 3.3V
- » Operating temperature range: -25 °C ... +85 °C
- » Storage temperature range: -40 °C ... +85 °C
- » BGA 153 ball package

MODEL NUMBER	CAPACITY	BALL CNT	PACKAGE SIZE L×W×T (mm)	TYPE	LEAD TIME / STOCK	LEAD TIME / BY PO
MREMB3A004GZMBAB00	<b>4 GB</b>	153	11.5×13×1.0	20 nm MLC	2 ... 3 weeks	6 ... 8 weeks
MREMB3A008GZMBAB00	<b>8 GB</b>	153	11.5×13×1.0	16 nm MLC	2 ... 3 weeks	6 ... 8 weeks
MREMB3A016GZMBAB00	<b>16 GB</b>	153	11.5×13×1.0	16 nm MLC	2 ... 3 weeks	6 ... 8 weeks
MREMB3A032GZMBAB00	<b>32 GB</b>	153	11.5×13×1.0	16 nm MLC	2 ... 3 weeks	6 ... 8 weeks