

**MEDIATEK**

INTERNAL USE

# MT8183 DRAM Config SOP

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# MT8183 LPDDR4 Solution

MT8183 目前可以支持 LPDDR4 2GB

- MT8183 LPDDR4 solution: 32bit data width
  - x32    2GB    8Gbit+8Gbit    1pcs

# MT8183 LPDDR4 solution 配置方法-1

- 1. Update the latest EMI setting table
  - \vendor\mediatek\proprietary\bootable\bootloader\preloader\tool\emigen\MT6771\MemoryDevicesList\_MT6771.xls

Vendor	Part Number	Type	Mode	Density (Mb)	Board ID
Hynix	H9HP52ACPMMDAR	MCP(eMMC+LPDR4X)	R0_NORMAL+R1_NORMAL	16384+16384	MT6771_EVB
Samsung	KMDH6001DM_B422	MCP(eMMC+LPDR4X)	R0_NORMAL+R1_NORMAL	16384+16384	MT6771_EVB
Hynix	H9TQ26ADFTBCUR	MCP(eMMC+LPDDR3)	R0_NORMAL+R1_NORMAL	16384+8192	MT6771_EVB
Samsung	KMRX60014M_B614	MCP(eMMC+LPDDR3)	R0_NORMAL+R1_NORMAL	16384+16384	MT6771_EVB
Hynix	H28U74301AMR	Discrete LPDR4X	R0_NORMAL+R1_NORMAL	16384+16384	MT6771_EVB
Micron	MT53B512M32D2NP	Discrete LPDDR4	R0_NORMAL+R1_NORMAL	8192+8192	MT8183_EVB
Samsung	KMRD60014M_B512	MCP(eMMC+LPDDR3)	R0_NORMAL+R1_NORMAL	16384+16384	MT6771_EVB

- Note: Part number 和 Board ID 要和 custom\_MemoryDevice.h 一致.

# MT8183 LPDDR4 solution 配置方法-2

- 2. Modify Board ID and Part Number
  - \vendor\mediatek\proprietary\bootable\bootloader\preloader\custom\CUSTOM\_PROJECT\inc\custom\_MemoryDevice.h

```
#define BOARD_ID MT8183_EVB  
  
#define CS_PART_NUMBER[0] MT53B512M32D2NP
```

## MT8183 LPDDR4 solution配置方法-3

- 3.查看系统total memory size的方法:
  - 进入adb shell, 执行cat /proc/meminfo, 会显示系统MemTotal的信息.

```
tb8183m1_64_bsp:/ # cat /proc/meminfo
MemTotal:          1879048 kB
MemFree:           146384 kB
MemAvailable:      844204 kB
Buffers:            8228 kB
Cached:             672756 kB
SwapCached:         0 kB
Active:             731656 kB
Inactive:           452856 kB
Active(anon):       503912 kB
Inactive(anon):     1100 kB
```

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