

MICROSTER CMB ERRATA

Krzysztof Mazur

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This documents contains a list of all known errors in MicroSTER CMB cards.

Model	Interface	PCI RevID	Board revision	firmware
CMB-R4	PC/104	-	AR4	0x4
CMB-R6	PC/104	-	AR4	0x6
CMB-R10	PC/104	-	AR4	0x10
CMB-R11	PC/104	-	AR4	0x11
CMB-A1	PC/104	1/1/1	AR4-p1	
CMB-A2	PC/104	2/2/2	AR4-p1	

1. There are multiple issues with encoder counters.

Affected models: CMB-R4, CMB-R6, CMB-R10?

Fix: Fixed in firmware 0x10/0x11.

2. There are multiple issues with the rambat.

Affected models: CMB-R4, CMB-R6, CMB-R10

Fix: Fixed in firmware 0x11.

3. Only 512 KiB of rambat is accessible.

Affected models: CMB-R4, CMB-R6, CMB-R10

Fix: Fixed in CMB-A1.

4. The watchdog and power supply control can be completely disabled and it's automatically disabled on reset. This may cause to complete lockup if problem will occur while watchdog is disabled.

Affected models: CMB-R4, CMB-R6, CMB-R10, CMB-R11

Fix: Fixed in CMB-A1.

5. The SRAM chips data bus with maximal drive strength 1 mA are directly connected to PC/104 bus which requires 4 mA.

Affected models: CMB-R4, CMB-R6, CMB-R10, CMB-R11, CMB-A1, CMB-A2.

No fix is available.

6. The rambat write is not disabled on power failure. This can lead to rambat state corruption.

Affected models: CMB-R4, CMB-R6, CMB-R10, CMB-R11

Fix: Fixed in CMB-A1.

7. The PC/104 RESET is ignored.

Affected models: CMB-R4, CMB-R6, CMB-R10, CMB-R11, CMB-A1, CMB-A2

No fix is available.

8. Disabling watchdog does not work because the watchdog self-refresh is not enabled.

Affected models: CMB-A1

Fix: Fixed in CMB-A2.