

PC1066 RDRAM Operation with i850e Chipset board

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- **Max # of PC1066 RDRAM @Intel's 850e chipset board**

According to Intel 82850/82850e MCH specification,

for 82850 MCH and 82850e MCH PC800 RDRAM a maximum of 64 RDRAM devices are supported on the paired channels without external logic.

for 82850e MCH PC1066 RDRAM a maximum of **48 RDRAM devices** are supported on the paired channels. The following table shows the maximum RDRAM size.

RDRAM Technology	Directly supported		
	Increment	maximum PC800 RDRAM	maximum PC1066 RDRAM
128Mb/144Mb	32MB	1GB	1GB
256Mb/288Mb	64MB	2GB	1.5GB

➔ When using 16d RIMM , don't use PC1066 16d RIMM + 16d RIMM (2GB) combination per channel simultaneously, but use PC1066 16d RIMM + 8d RIMM(1.5GB) combination.

2. When PC1066 16d RIMM + 16d RIMM combination is used at each channel, what happen?

Case1) If BIOS can support up to max. 24 RDRAM devices per channel.

- Even though 32 RDRAM devices is populated in memory slot, the system recognized up to max. 24 devices.
- There aren't any problems regarding max. memory density.

Case2) If BIOS can support max 32 RDRAM devices

- Because several devices per channel are not recognized and channel margin is poor at this configuration, Samsung can not guarantee the operation of PC1066 16d + 16d RIMM configuration per channel at i850e board.
- **Please use PC1066 16d+8d RIMM configuration instead of 16d+16d RIMM configuration per channel at i850e board.**

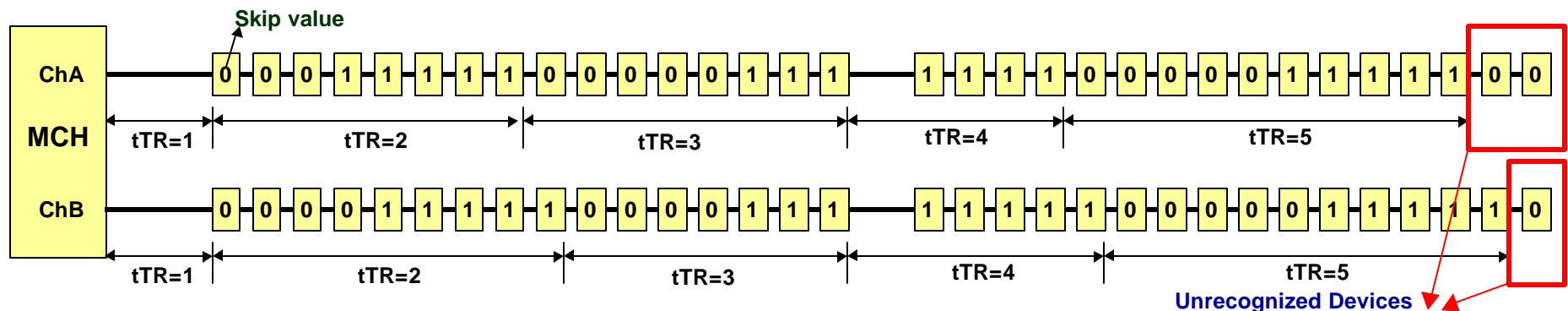


Fig 1) 32 devices recognition problem per channel regarding tTR setting.