( ) C_SIZE

C_SIZE MULT READ_BL_LEN :

memory capacity = BLOCKNR * BLOCK_LEN

Where

BLOCKNR = (C_SIZE+1) * MULT

$MULT = 2^{C_SIZE_MULT+2}$ (C_SIZE_MULT < 8)

$BLOCK_LEN = 2^{READ_BL_LEN}$, (READ_BL_LEN < 12)

To indicate 2 GByte card, BLOCK_LEN shall be 1024 bytes.

Therefore, the maximum capacity that can be coded is 4096 * 1024 = 2^32 bytes.

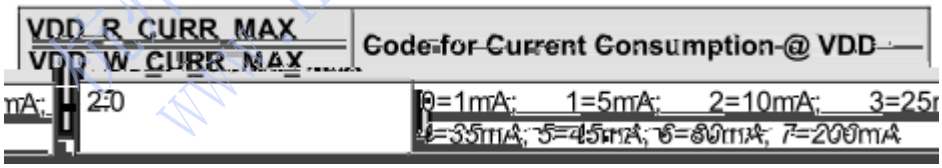
For example, a 32 Mbyte card with BLOCK_LEN = 512 can be coded by C_SIZE_MULT = 9 and C_SIZE = 2000.

Vdd :



$V_{DD, min}$ Current Consumption

Vdd :



$V_{DD, max}$ Current Consumption V_{DD}

C_SIZE_MULT	MULT
0	$2^2 = 4$
1	$2^3 = 8$
2	$2^4 = 16$
3	$2^5 = 32$
4	$2^6 = 64$
5	$2^7 = 128$
6	$2^8 = 256$
7	$2^9 = 512$

Multiply Factor for the Device Size

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E-9.4.6 (A539r5S)3.4.6 (E_)10.1 (-758.7 LK).4.6K(E_)12.1EN Ê y ?± L”,´

R2W_FACTOR	Multiples of read access time
0	1
1	2 (write half as fast as read)
2	4
3	8
4	16
5	32
6,7	reserved

R2W_FACTOR

2WRITE BL LEN 512 2048
512 SD WRITE_BL_LEN
READ_BL_LEN

0~8	reserved
9	2^9 = 512 bytes
10	2^{10} = 1024 Bytes
11	2^{11} = 2048 Bytes
12~15	reserved

Data Block Length

WRITE_BL_partial =0
WRITE_BL_LEN 512
WRITE_BL_PARTIAL=1

ROM . File Formats

(=0) (=1) 1
ROM COPY

( )
“ 0 ”

( )
0

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ROM :

CRC CSD CSD
CSD

SD SD CSD Version 2.0
SDHC SDXC CSD
CSD 2.0 SDHC SDXC