SD NAND 18 e

SD

SD : Card Status :

- 'SD Status': 512 SD

R1 card status 32 (

)

0 type clear condition :

:

E:

S:

R:

X:

R1

:

A:

B: ( )

C:

Bits	Identifier	Type	Value	Description	Clear Condition
31	OUT_OF_RANGE	E R X	'0'= no error '1'= error	The command's argument was out of the allowed range for this card.	C
30	ADDRESS_ERROR	E R X	'0'= no error '1'= error	A misaligned address which did not match the block length was used in the command.	C
29	BLOCK_LEN_ERROR	E R X	'0'= no error '1'= error	The transfer block length is not allowed for this card, or the number of transferred bytes does not match the block length.	C
28	ERASE_SEQ_ERROR	E R	'0'= no error '1'= error	An error in the sequence of erase commands occurred.	C
27	ERASE_PARAM	E R X	'0'= no error '1'= error	An invalid selection of write-blocks for erase occurred.	C
26	WP_VIOLATION	E R X	'0'= not protected '1'= protected	Set when the host attempts to write to a protected block or to the temporary or permanent write	C

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R1 x

/

(1) CMD3 R6 23 22 19 12:9

(2)

CMD Number	Response Format Card Status Bit Number																				
	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12:9	8	5
3[1]									x	x			x							x		
6[2]	x						x		x	x	x	x	x							x		
7					x	x	x	x	x	x	x	x	x			x	x	x	x	x	x	
11							x		x	x			x							x		
12	x	x				x	x		x	x	x	x	x					x		x		
13	x	x			x	x	x	x	x	x	x	x	x			x	x	x		x	x	
16			x		x	x	x	x	x	x	x	x	x			x	x	x	x	x		
17	x	x			x	x	x	x	x	x	x	x	x			x	x	x	x	x		
18	x	x			x	x	x	x	x	x	x	x	x			x	x	x	x	x		
19	x	x			x	x	x	x	x	x	x	x	x			x	x	x	x	x		
20	x	x	x		x	x	x	x	x	x	x	x	x			x	x	x	x	x	x	
23	x	x	x		x	x	x	x	x	x	x	x	x			x	x	x	x	x		
24	x	x	x		x	x	x	x	x	x	x	x	x			x	x	x	x	x	x	
25	x	x	x		x	x	x	x	x	x	x	x	x			x	x	x	x	x	x	
26					x	x	x	x	x	x	x	x	x			x	x	x	x	x		
27					x	x	x	x	x	x	x	x	x			x	x	x	x	x		
28	x				x	x	x	x	x	x	x	x	x			x	x	x	x	x		
29	x				x	x	x	x	x	x	x	x	x			x	x	x	x	x		
30	x				x	x	x	x	x	x	x	x	x			x	x	x	x	x		
32	x			x	x	x	x	x	x	x	x	x	x			x	x	x	x	x		
x x x x			x	x	x	x	x	x				38	x				x	x	x	x	x	x
x x x x			x	x	x	x	x	x				38					x	x	x	x	x	x
x x x x			x	x	x	x	x	x				42						x	x	x	x	x

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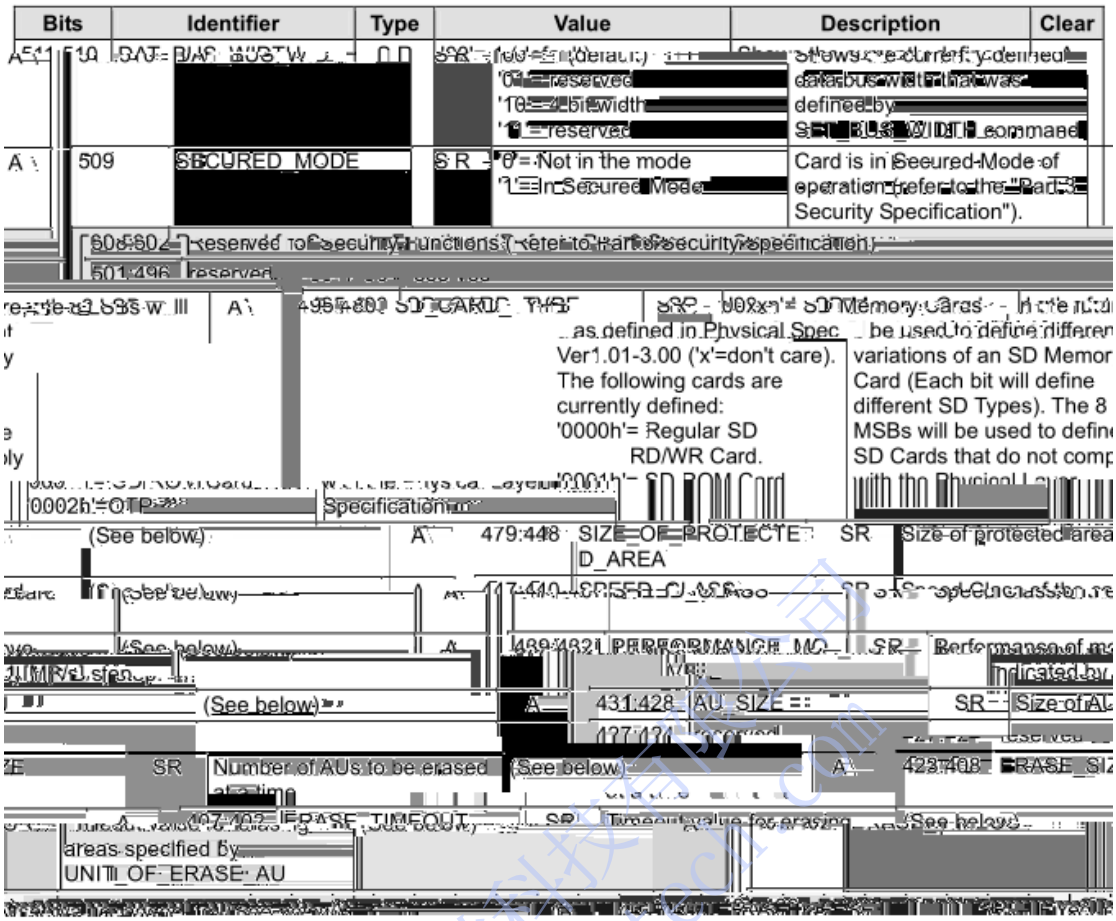
Card Status Field/Command - Cross Reference

SD

SD SD
SD Status 512l 16 CRC DAT

ACMD13 (CMD55 CMD13) SD Status DAT ACMD13
( ) SD Status

0



SIZE_OF_PROTECTED_AREA

Setting this field differs between SDSC and SDHC/SDXC.
In case of SDSC Card, the capacity of protected area is calculated as follows:

SPEED_CLASS

8

10 2 6

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