SD NAND 存储功能描述（16）命令类 c

卡状态转换表

下方表格根据接收到的命令定义了卡的状态转换。表中的状态名是命令执行后的下一个状态。"-"表示该命令被视为非法命令。此外，命令是否可执行取决于命令类(ccc)。

	current state									
	idle	ready	ident	stby	tran	data	rcv	prg	dis	ina
"Operation Complete"	-	-	-	-	-	tran	-	tran	stby	-
class 0										
CMD0	idle	idle	idle	idle	idle	idle	idle	idle	idle	-
CMD2	-	ident	-	-	-	-	-	-	-	-
CMD3	-	-	stby	stby	-	-	-	-	-	-
CMD4	-	-	-	stby	-	-	-	-	-	-
CMD7, card is addressed	-	-	-	tran	-	-	-	-	prg	-
CMD7, card is not addressed	-	-	-	stby	stby	stby	-	dis	-	-
CMD8	idle	-	-	-	-	-	-	-	-	-
CMD9	-	-	-	stby	-	-	-	-	-	-
CMD10	-	-	-	stby	-	-	-	-	-	-
CMD11	-	ready	-	-	-	-	-	-	-	-
CMD12	-	-	-	-	-	tran	prg	-	-	-
CMD13	-	-	-	stby	tran	data	rcv	prg	dis	-
CMD15	-	-	-	ina	ina	ina	ina	ina	ina	-
class 2										
CMD16	-	-	-	-	tran	-	-	-	-	-
CMD17	-	-	-	-	data	-	-	-	-	-
CMD18	-	-	-	-	data	-	-	-	-	-
CMD19	-	-	-	-	data	-	-	-	-	-
CMD20	-	-	-	-	prg	-	-	-	-	-
CMD23	-	-	-	-	tran	-	-	-	-	-
class 4										
CMD16	see class 2									
CMD20	-	-	-	-	prg	-	-	-	-	-
CMD23	-	-	-	-	tran	-	-	-	-	-
CMD24	-	-	-	-	rcv	-	-	-	-	-
CMD25	-	-	-	-	rcv	-	-	-	-	-
CMD27	-	-	-	-	rcv	-	-	-	-	-
class 6										
CMD28	-	-	-	-	prg	-	-	-	-	-
CMD29	-	-	-	-	prg	-	-	-	-	-
CMD30	-	-	-	-	data	-	-	-	-	-

	current state									
	idle	ready	ident	stby	tran	data	rcv	prg	dis	ina
CMD33	-	-	-	-	tran	-	-	-	-	-
CMD38	-	-	-	-	prg	-	-	-	-	-
class 7										
CMD40	-	-	-	-	data	-	-	-	-	-
CMD42	-	-	-	-	rcv	-	-	-	-	-
class 8										
CMD55	idle	-	-	stby	tran	data	rcv	prg	dis	-
CMD56; RD/WR = 0	-	-	-	-	rcv	-	-	-	-	-
CMD56; RD/WR = 1	-	-	-	-	data	-	-	-	-	-
ACMD6	-	-	-	-	tran	-	-	-	-	-
ACMD13	-	-	-	-	data	-	-	-	-	-
ACMD22	-	-	-	-	data	-	-	-	-	-
ACMD23	-	-	-	-	tran	-	-	-	-	-
ACMD18,25,26,38, 43,44,45,46,47,48,49	Refer to the "Part3 Security Specification" for information about the SD Security Features									
ACMD41, OCR check is OK and card is not busy	ready	-	-	-	-	-	-	-	-	-
ACMD41, OCR check is OK and card is busy[2]	idle	-	-	-	-	-	-	-	-	-
ACMD41, OCR check fails	ina	-	-	-	-	-	-	-	-	-
ACMD41, query mode	idle	-	-	-	-	-	-	-	-	-
ACMD42	-	-	-	-	tran	-	-	-	-	-
ACMD51	-	-	-	-	data	-	-	-	-	-
class 9										
CMD52-CMD54	refer to the "SDIO Card Specification"									
class 10[1]										
CMD6	-	-	-	-	data	-	-	-	-	-
CMD34-37,50,57	refer to each command system specification									
class 11										
CMD41, CMD43...CMD49, CMD58-CMD59	reserved									
CMD60...CMD63	reserved for manufacturer									

Card State Transition Table

注(1):第 10 类命令在 1.10 版本中定义

注(2):卡在以下情况下返回忙。

-Card 执行内部初始化过程

-当参数中的 HCS 设置为 0 时，为 SDHC 或 SDXC 卡。

以上第 8 类给出了 SD 存储卡特定应用程序命令的状态转换。