ATA COMMAND TABLE (in OPCode Order)

ATA Command	Instruction			OP
CHS2LBA	CHS2LBA			
LBA2CHS	LBA2CHS			
SCT LBA SEGMENT ACCESS	SCT_LSAP	SCT_LSA		
SCI LBA SEGIVIENT ACCESS	SCT_LSAP_GPL	SCT_LSAP		
SCT READ LONG	SCT_RL_GPL	SCT_RL		
SCT RETURN ERROR RECOVERY CONTROL	SCT_RERC_GPL	SCT_RERC		
SCT RETURN FEATURE CONTRLL	SCT_ RFC_GPL	SCT_ RFC		
SCT RETURN FEATURE OPTION FLAG	SCT_ RFOF_GPL	SCT_ RFOF		
SCT RETURN SCT DATA TABLE	SCT_DT_GPL	SCT_DT		
SCT SET ERROR RECOVERY CCONTROL	SCT_ SERC_GPL	SCT_ SERC		
SCT SET FEATURE CONTRLL	SCT_ SFC_GPL	SCT_ SFC		
SCT STATUS REQUEST	SCT_REQST_GPL	SCT_REQST		
SCT WRITE LONG	SCT_WL_GPL	SCT_WL		
SCT WRITE SAME WITH WRITE DATA	SCT_WRSAME_	SCT_WRS		
BLOCK	BLK_GPL	AME_BLK		
COT MOITE CAME MUTILIMOITE DATA		SCT_WRS		
SCT WRITE SAME WITH WRITE DATA	SCT_WRSAME_	AME_BLK_		
BLOCK FOREGROUND	BLK_FRG_GPL	FRG		
SCT WRITE SAME WITH WRITE DATA	SCT_WRSAME_	SCT_WRS		
PATTERN	PTN_GPL	AME_PTN		
CCT MIDITE CAME MITH MIDITE DATA	CCT MDCAME	SCT_WRS		
SCT WRITE SAME WITH WRITE DATA	SCT_WRSAME_	AME_PTN_		
PATTERN FOREGROUND	PTN_GPL_FRG	FRG		
SOFTWARE RESET	Reset	REST	SRST	
NOP		NOP		00h
CFA REQUEST EXTENDED ERROR	CfaReqErr	CFRE		03h
DATA SET MANAGEMENT	ATA_DSM	DSM		06h
DEVICE RESET	DevRst	DRST		08h
REQUEST SENSE DATA EXT	REQS_ATA			0Bh
DEAD SECTOD(S)	RdSec	RDSK	RS	20h
READ SECTOR(S)	Rusec	RSEC	KS	2011
READ SECTOR(S) WITHOUT RETRIES	RdSecN	RDSKN RSECN	RSN	21h
READ LONG	RdLong	RDLG		22h
READ LONG WITHOUT RETRIES	RdLongN	RLN	RDLGN	23h
READ SECTOR(S) EXT	RdSecEx	RDSE	RSEX	24h
READ DMA EXT	RdDMAEx	RDMX		25h
READ DMA QUEUED EXT	RdDMAQEx	RDQX		26h
READ NATIVE MAX ADDRESS EXT	RdNativeMaxEx	RNME		27h
READ MULTIPLE EXT	RdMulEx	RDME	RMEX	29h
READ STREAM DMA EXT	RdStrDMA	RSTD		2Ah
READ STREAM EXT	RdStrPIO	RSTP		2Bh
READ LOG EXT	RdLogEx	RLEX		2Fh
READ LOG EXT COMP	RdLogExComp	RLEC		2Fh
READ LOG EXT CURRENT DEVICE	RdLogExCurSts	RLECURSTS		2Fh
INTERNAL STATUS				
READ LOG EXT DEVICE STATISTICS	RdLogExDevSt	RLEDEVST		2Fh
READ LOG EXT DIRECTORY	RdLogExDir	RLED		2Fh
READ LOG EXT EXTENDED POWER	RdLogExEPC	RLEEPC		2Fh
CONDITION				
READ LOG EXT LBA STATUS	RdLogExLBASts	RLELBASTS		2Fh
READ LOG EXT LONG PHYSICAL	RdLogExLPS	RLELPS		2Fh
SECTOR	J			
MIII INIV Tochnology Conv				

READ LOG EXT INCO COMMAND ERROR ReLogeXOER 2.Fh READ LOG EXT NCO SEND RECEIVE RELOGEX 2.Fh READ LOG EXT SAYEA NCO QUEUE RELOGEX 2.Fh MANAGEMENT REDOR 2.Fh READ LOG EXT SAYED DEVICE RELOGEXSAYSTS READ LOG EXT SAYED DEVICE INTERNAL STATUS RELOGEXSEITEST RELOGEXSEITEST RESTE 2.Fh READ LOG EXT SELF TEST READ LOG EXT SELF TEST READ STREAM PERFORMANCE LOG ROSTEFITIOG RSTE 2.Fh READ STREAM PERFORMANCE LOG ROSTREAM PERFORMANCE LOG ROSTEFITIOG WSTE 2.Fh WRITE SECTOR(S) WrSec WDSK WSEC WWSEC WSEC WWSEC WSEC WSEC WSEC WSEC WSEC WWSEC WSEC WWSEC WWSEC WSEC WWSEC WSEC WWSEC	ATA Command	Instruction			OP
READ LOG EXT NCO SEND RECEIVE RatLogexOSR RLEOMSR 2Fh READ LOG EXT SATA NCO QUEUE RdLogexOMgt RLEOMGT 2Fh MANAGEMENT READ LOG EXT SAVED DEVICE RLEOMSTS 2Fh INTERNAL STATUS RLEOMSTS 2Fh READ LOG EXT SELF TEST ReLogexSelfest RLET 2Fh READ STREAM PERFOR LOG RdStrPfmLog RPFM 2Fh WRITE SECTOR(S) WrSec WDSK WS 30h WRITE SECTOR(S) WITHOUT RETRIES WrDMAN WDMAN 30h WRITE LONG WrLong WTLG WL 32h WRITE SECTOR(S) WITHOUT RETRIES WrLONGN WTLG WL 32h WRITE LONG WRLG WL 32h WRITE SECTOR(S) WITHOUT RETRIES WrLONGN WTLG WL 32h WRITE DAG WRLD WRLD WDX 35h WSEX 34h WRITE DAG WRLD WRDMA 35h WSEX 34h 37h CAWRITE SECTOR(S) WITHOUT RETRIES WRLD WDX 35h </th <th>READ LOG EXT NCQ COMMAND ERROR</th> <th>RdLogExQErr</th> <th>RLEQERR</th> <th></th> <th>2Fh</th>	READ LOG EXT NCQ COMMAND ERROR	RdLogExQErr	RLEQERR		2Fh
READ LOG EXT SATA NCQ QUEUE RdLogEXOMGT RLEOMGT 2Fh MANAGEMENT READ LOG EXT SAVED DEVICE RdLogEXSavSts RLESAVSTS 2Fh READ LOG EXT SELF TEST RdLogEXSelFTest RLET 2Fh READ LOG EXT SELF TEST RdLogEXSelFTest RLET 2Fh READ STREAM PERFORMANCE LOG RdSTEFTLOG RSTE 2Fh WRITE SECTOR(S) WrSec WDSK WS 30h WRITE SECTOR(S) WrSec WDSK WS 30h WRITE LONG WrLONG WTLG WL 32h WRITE LONG WTLONG WTLG WL 32h WRITE LONG WTLONG WTLG WL 32h WRITE DAMA DUEUD RETRIES WrDMAN WDSE WSEX 34h WRITE DAMA EXT WrDMAEX WDMX 36h WRITE SECTOR(S) WITHOUT ERASE CfaWSec CFWSE 38h WRITE DAMA ADDRESS EXT SetMaxEx SAME 37h WRITE DAMA QUEUE EXT WrStMASE WGMSE 38h					
READ LOG EXT SAVED DEVICE NTERNAL STATUS RILET 2Fh	READ LOG EXT SATA NCQ QUEUE				
INTERNAL STATUS					
READ LOG EXT SELF TEST RedogexSelfTest R.E.T 2.Fh READ STREAM ERROR LOG RdStrettlog RSTE 2.Fh WRAD STREAM PERFORMANCE LOG RdStrettlog WFFM 2.Fh WRITE STREAM ERROR LOG WrStefferLog WSTE 2.Fh WRITE SECTOR(S) WrSec WS SC WS 30h WRITE SECTOR(S) WITHOUT RETRIES WrLong WTLG WL 32h WRITE LONG WITHOUT RETRIES WrLongN WTLGN WLN 33h WRITE LONG WITHOUT RETRIES WrLONGN WTLGN WLN 32h WRITE LONG WITHOUT RETRIES WrLONGN WTLGN WLN 33h WRITE SECTOR(S) EXT WrDMAE WDX 35h WRITE DMA EXT WrDMAE WDX 35h WRITE STREAM DMA QUELED EXT WrDMAOEX WDAX 35h WRITE STREAM DMA EXT WrStrDMA WSTD 38h WRITE SECOR(S) WITHOUT ERRSE CfaWrSec CFWS 38h WRITE STREAM DMA EXT WrStrDMA WSTD 34h WRITE SEX		RdLogExSavSts	RLESAVSTS		2Fh
READ STREAM ERROR LOG RdSirefrlog RSTE 2Fh READ STREAM PERFORMANCE LOG RdSirefrinog RPFM 2Fh WRITE STEZAM ERROR LOG WrStefrlog WSTE 2Fh WRITE SECTOR(S) WrSec WSSK 30h WRITE SECTOR(S) WITHOUT RETRIES WrDMAN WDMAN 30h WRITE LONG WrLong WTLG WL 32h WRITE LONG WITHOUT RETRIES WrLongN WTLGN WL 32h WRITE DAM EXT WrDMADEX WDMX 35h WRITE DAM EXT WrDMADEX WDMX 35h WRITE MAD QUEUED EXT WrDMAEX WDMX 35h WRITE MAD QUEUED EXT WrDMAEX WDMX 36h SET MAX ADDRESS EXT SetMakex SAME 37h CFA WRITE SECTOR(S) WITHOUT ERASE CfWrSec CFWS 38h WRITE MULTIPLE EXT WrMIE WRSTDHA WSTD 38h WRITE STREAM DMA EXT WrStrDMA WSTD 39h WRITE STREAM EXT WrStrDMA WSTD <t< td=""><td></td><td>RdLoaFxSelfTest</td><td>RI FT</td><td></td><td>2Fh</td></t<>		RdLoaFxSelfTest	RI FT		2Fh
READ STREAM PERFORMANCE LOG					
WRITE STREAM ERROR LOG WrSterrLog WSTE 2Fh WRITE SECTOR(S) WrSec WDSK WSEC WS 30h WRITE SECTOR(S) WrLong WTLONG WL 30h WRITE LONG WrLong WTLG WL 32h WRITE LONG WITHOUT RETRIES WrLong WTLG WL 32h WRITE DAG WTLGN WL 33h WRITE SECTOR(S) EXT WrSecEx WDSE WSEX 34h WRITE DAG WUDMAEX WDMX 35h 35h 35h 35h 35h 35h 37h 35h 37h 35h 37h 35h 37h 36k 37h 35h 37h 36k 37h 36k 37h 37					
WRITE SECTOR(S) WrSec WDSK WSEC WS 30h WRITE SECTOR(S) WITHOUT RETRIES WrDMAN WDMAN 30h WRITE LONG WrLong WTLG WL 32h WRITE LONG WITHOUT RETRIES WrLongN WTLGN WL 32h WRITE SECTOR(S) EXT WrSecEx WDSE WSEX 34h WRITE DMA EXT WrDMAEX WDMX 35h WRITE DMA QUEUED EXT WrDMAGEX WDQX 36h WRITE DMA QUEUED EXT WrDMAGEX WDQX 36h WRITE SECTOR(S) WITHOUT ERASE CfaWrSec CFWS 38h WRITE MULTIPLE EXT WrMILEX WDME WMEX 39h WRITE STREAM EXT WrStrDMA WSTD 38h 37h WRITE WRITE VERIFY CfaWrVerify WDME WMEX 39h WRITE DMA FUA EXT WrDMAFUAEX WW 3Ch WRITE DMA QUEUE FUA EXT WrDMAFUAEX WDF 3Fh WRITE DMA QUEUE FUA EXT WrDMAFUAEX WDF 3Fh					
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SET MAX ADDRESS EXT SetMaxEx SAME 37h CFA WRITE SECTOR(S) WITHOUT ERASE CfaWrSec CFWS 38h WRITE MULTIPLE EXT WrMULTIPLE EXT WDME WMEX 39h WRITE STREAM DMA EXT WrStrDMA WSTD 3Ah WRITE STREAM EXT WrStrDMA WSTD 38h CFA WRITE VERIFY CfaWrVerify CFWV 3Ch WRITE VERIFY WrVerify CFWV 3Ch WRITE DMA FUA EXT WrDMAGFuaEX 3Dh WRITE DMA QUEUE FUA EXT WrDMAGFuaEX 3Eh WRITE LOG EXT WrLOGEX WDFE 3Fh READ VERIFY SECTOR(S) RdVfy RVFY RV 40h READ VERIFY SECTOR(S) WITHOUT RdVfyN RVFYN 41h READ VERIFY SECTOR(S) EXT RdVfyEX RVFE 42h WRITE UNCORRECTABLE EXT_FL WUNCEX WUNCEX 45h WRITE UNCORRECTABLE EXT_FNL WUNCEX FNL 45h WRITE UNCORRECTABLE EXT_PNL WUNCEX FNL 45h <					
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WRITE STREAM DMA EXT WRITE STREAM EXT WRITE STREAM EXT WRITE VERIFY CFAWNRITE VERIFY WRITE VERIFY WRITE VERIFY WRITE DMA FUA EXT WRITE DMA OLUEL FUA EXT WRITE LOG EXT READ VERIFY SECTOR(S) WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL READ LOG DMA EXT RESTEAM RES	· · ·			WMFX	
WRITE STREAM EXT CFA WRITE VERIFY CFAWRVerify WRITE DMA FUA EXT WRITE DMA QUEUE FUA EXT WRITE LOG EXT READ VERIFY SECTOR(S) WRITE UNCORRECTABLE EXT_PL READ LOG DMA EXT READ RECEIVE READ REPDMA READ DMA RE				VVIVIEX	
CFA WRITE VERIFY WRITE VERIFY WRITE DANA PLA EXT WRITE DMA QUEUE FUA EXT WRITE LOG EXT READ VERIFY SECTOR(S) WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL 45h WRITE UNCORRECTABLE EXT_PL WUNCEX_PL WUNCEX_PL WUNCEX_PL WUNCEX_PL WUNCEX_PL FNL 45h 45h 45h 45h WUNCEX_PL FNL 45h WINCEX_PL FNL 45h WUNCEX_PL FNL 45h WUNCEX_					
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WRITE DMA FUA EXT WRITE DMA QUEUE FUA EXT WRITE LOG EXT READ VERIFY SECTOR(S) READ VERIFY SECTOR(S) WITHOUT RETRIES READ VERIFY SECTOR(S) EXT WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_PL WUNCEX_FIL WUN					
WRITE DMA QUEUE FUA EXT WRIDGEX WRITE LOG EXT READ VERIFY SECTOR(S) READ VERIFY SECTOR(S) WITHOUT RETRIES READ VERIFY SECTOR(S) EXT WRITE UNCORRECTABLE EXT WUNCEX FIL WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_FNL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PNL READ LOG DMA EXT READ LOG DMA EXT READ LOG DMA EXT CFA FORMAT SECTORS CONFIGURE STREAM CfgStr CFST S1h WRITE LOG DMA EXT WRLOGEX_DMA RIEX_DMA 47h CFA FORMAT SECTORS CfafmtTrk CFFT S0h CONFIGURE STREAM CfgStr CFST S1h WRITE LOG DMA EXT WRLOGEX_DMA WRLE_DMA 57h TRUSTED NONDAT RECEIVE NData NDATA TCG_Receive NDATA NDATA SBh TRUSTED RECEIVE TCG_Receive_DMA TCG_RECEIVE_DMA TCG_RECEIVE_DMA TCG_RECEIVE_DMA TCG_RECEIVE_DMA TCG_RECEIVE_DMA TCG_RECEIVE_DMA TCG_RECEIVE_DMA TDG_SEND TDG_SEND TDG_SEND TDG_SEND TDG_SEND TDG_SEND TDG_SEND READ FPDMAQ 60h		3	VVV		
WRITE LOG EXT READ VERIFY SECTOR(S) READ VERIFY SECTOR(S) WITHOUT RETRIES READ VERIFY SECTOR(S) WITHOUT RETRIES READ VERIFY SECTOR(S) WITHOUT RETRIES READ VERIFY SECTOR(S) EXT WRITE UNCORRECTABLE EXT WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PNL WRITE UNCORRECTABLE EXT_PNL WRITE UNCORRECTABLE EXT_PNL READ LOG DMA EXT CFA FORMAT SECTORS CONFIGURE STREAM CFGStr CFST WRITE LOG DMA EXT TRUSTED NONDAT RECEIVE TCG_Receive_ NData TCG_Receive_ NDATA TRUSTED RECEIVE TCG_Receive_ TCG_RECEIVE TCG_Receive_ TCG_RECEIVE TCG_RECEIVE_DMA TDG_SEND_DMA TDG_SEND_DM					
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READ VERIFY SECTOR(S) WITHOUT RETRIES READ VERIFY SECTOR(S) EXT READ LOG DMA EXT READ LOG DMA EXT READ LOG DMA EXT READ LOG DMA EXT READ CONFIGURE STREAM READ FORMAT SECTOR(S) READ RECEIVE READ RECEIVE READ VERIFY SECTOR(S) READ RECEIVE READ RECEIVE TOGARCH READ RECEIVE DMA REVYN REVYN REVYN REVYN REVYN REVYN REVYN RUNCEX FNL WUNCEX FNL WUNCEX FNL 45h WUNCEX FNL 45h READ LOG REX FORM REX FORM READ PARA REX FORM RES FORM READ REVYN ASh REX FORM READ REVYN				DV	
RETRIES READ VERIFY SECTOR(S) EXT READ VERIFY SECTOR(S) EXT ROVIYIN READ UNCORRECTABLE EXT ROVIYIN RETRIES ROVIYIN ROVIYIN ROVIYIN RETRIE ROVIYIN ASh WUNCEX PL 45h WUNCEX PL WUNCEX PRL 45h ROUIYIN REAL DAMA TOFIT SON CFFT SON CFFT SON CFFT SON CFFT SON CFFT SON CFFT SON TCG_RECEIVE SCH TCG_		Ruviy	KVFI		4011
WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_FNL WRITE UNCORRECTABLE EXT_FNL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WUNCEX_ FNL WUNCEX_ FNL WUNCEX_ PL WOUNCEX_ PNL A5h READ LOG DMA EXT READ LOG DMA EXT READ LOG DMA EXT CFA FORMAT SECTORS CfafmtTrk CFFT CONFIGURE STREAM CfgStr CFST S0h WRITE LOG DMA EXT WrLogEx_DMA WRLE_DMA TCG_Receive_ TCG_RCV_ S5h NDATA NDATA TRUSTED NONDAT SEND TCG_Send_NData TCG_Receive_DMA TCG_RECEIVE TCG	RETRIES			KVIN	41h
WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_FNL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PNL WRITE UNCORRECTABLE EXT_PNL READ LOG DMA EXT CFA FORMAT SECTORS CONFIGURE STREAM CFA FORMAT SECTORS CONFIGURE STREAM CFST WRITE LOG DMA EXT WRLE_DMA TRUSTED NONDAT RECEIVE TCG_RECEIVE TCG_	READ VERIFY SECTOR(S) EXT	RdVfyEx	RVFE		42h
WRITE UNCORRECTABLE EXT_FL WRITE UNCORRECTABLE EXT_FNL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PNL WRITE UNCORRECTABLE EXT_PNL READ LOG DMA EXT CFA FORMAT SECTORS CONFIGURE STREAM CFGStr CFST S0h WRITE LOG DMA EXT WrLogEx_DMA WRLE_DMA S7h TRUSTED NONDAT RECEIVE TCG_Receive_ NData TRUSTED NONDAT SEND TCG_Send_NData TCG_Receive TCG_RCV_ NDATA TRUSTED RECEIVE TCG_Receive TCG_RCV SDh TCG_Receive TCG_RCV DMA TCG_RECEIVE	WRITE UNCORRECTABLE EXT		WUNCX	WUNCEX	45h
WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PNL READ LOG DMA EXT CFA FORMAT SECTORS CONFIGURE STREAM CONFIGURE STREAM WRITE LOG DMA EXT TCG_RECEIVE TCG_RECEIVE	WRITE UNCORRECTABLE EXT_FL		_		45h
WRITE UNCORRECTABLE EXT_PL WRITE UNCORRECTABLE EXT_PNL READ LOG DMA EXT CFA FORMAT SECTORS CONFIGURE STREAM WRITE LOG DMA EXT WRITE LOG DMA EXT WRITE LOG DMA EXT WRITE LOG DMA EXT TRUSTED NONDAT RECEIVE TCG_Receive_ NData TRUSTED NONDAT SEND TCG_Send_NData TRUSTED RECEIVE TCG_Receive_ TCG_RCV_ TCG_RCV T	WRITE UNCORRECTABLE EXT_FNL		WUNCEX_		45h
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ATA Command	Instruction			OP
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SET MAX UNLOCK	SetMaxUnlock SetMaxUnlock_DMA	SMUN SMUN_DMA		F9h