

## 2. SD Host Standard Register

### 2.1 Summary of register set

#### 2.1.1 SD Host Control Register Map

Table 2-1 summarizes the standard SD Host Controller register set. The Host Driver needs to determine the base address of the register set by a Host System specific method. The register set is 256 bytes in size. For multiple slot controllers, one register set is assigned per each slot, but the registers at offsets 0F0h-0FFh are assigned as a common area. These registers contain the same values for each slot's register set.

Highlight in yellow:  
fields related to command config

Highlight in pink:  
fields related to device status

Offset	15-08 bit	07-00 bit	Offset	15-08 bit	07-00 bit
002h	SDMA System Address (High)		000h	SDMA System Address (Low)	
006h	16-bit Block Count		004h	Block Size	
00Ah	Argument (High)		008h	Argument (Low)	
00Eh	Command		00Ch	Transfer Mode	
012h	Response1		010h	Response0	
016h	Response3		014h	Response2	
01Ah	Response5		018h	Response4	
01Eh	Response7		01Ch	Response6	
022h	Buffer Data Port1		020h	Buffer Data Port0	
026h	Present State		024h	Present State	
02Ah	Wakeup Control	Block Gap Control	028h	Power Control	Host Control 1
02Eh	Software Reset	Timeout Control	02Ch	Clock Control	
032h	Error Interrupt Status		030h	Normal Interrupt Status	
036h	Error Interrupt Status Enable		034h	Normal Interrupt Status Enable	
03Ah	Error Interrupt Signal Enable		038h	Normal Interrupt Signal Enable	
03Eh	Host Control 2		03Ch	Auto CMD Error Status	
042h	Capabilities		040h	Capabilities	
046h	Capabilities		044h	Capabilities	
04Ah	Maximum Current Capabilities		048h	Maximum Current Capabilities	
04Eh	Maximum Current Capabilities (Reserved)		04Ch	Maximum Current Capabilities (Reserved)	
052h	Force Event for Error Interrupt Status		050h	Force Event for Auto CMD Error Status	
056h	---		054h	---	ADMA Error Status
05Ah	ADMA System Address [31:16]		058h	ADMA System Address [15:00]	
05Eh	ADMA System Address [63:48]		05Ch	ADMA System Address [47:32]	
062h	Preset Value		060h	Preset Value	
066h	Preset Value		064h	Preset Value	
06Ah	Preset Value		068h	Preset Value	
06Eh	Preset Value		06Ch	Preset Value	
072h	---		070h	---	
076h	---		074h	Preset Value for UHS-II	
07Ah	ADMA3 ID Address [31:16]		078h	ADMA3 ID Address [15:00]	
07Eh	ADMA3 ID Address [63:48]		07Ch	ADMA3 ID Address [47:32]	