KC600 SMART Attribute Details

Kingston
TECHNOLOGY
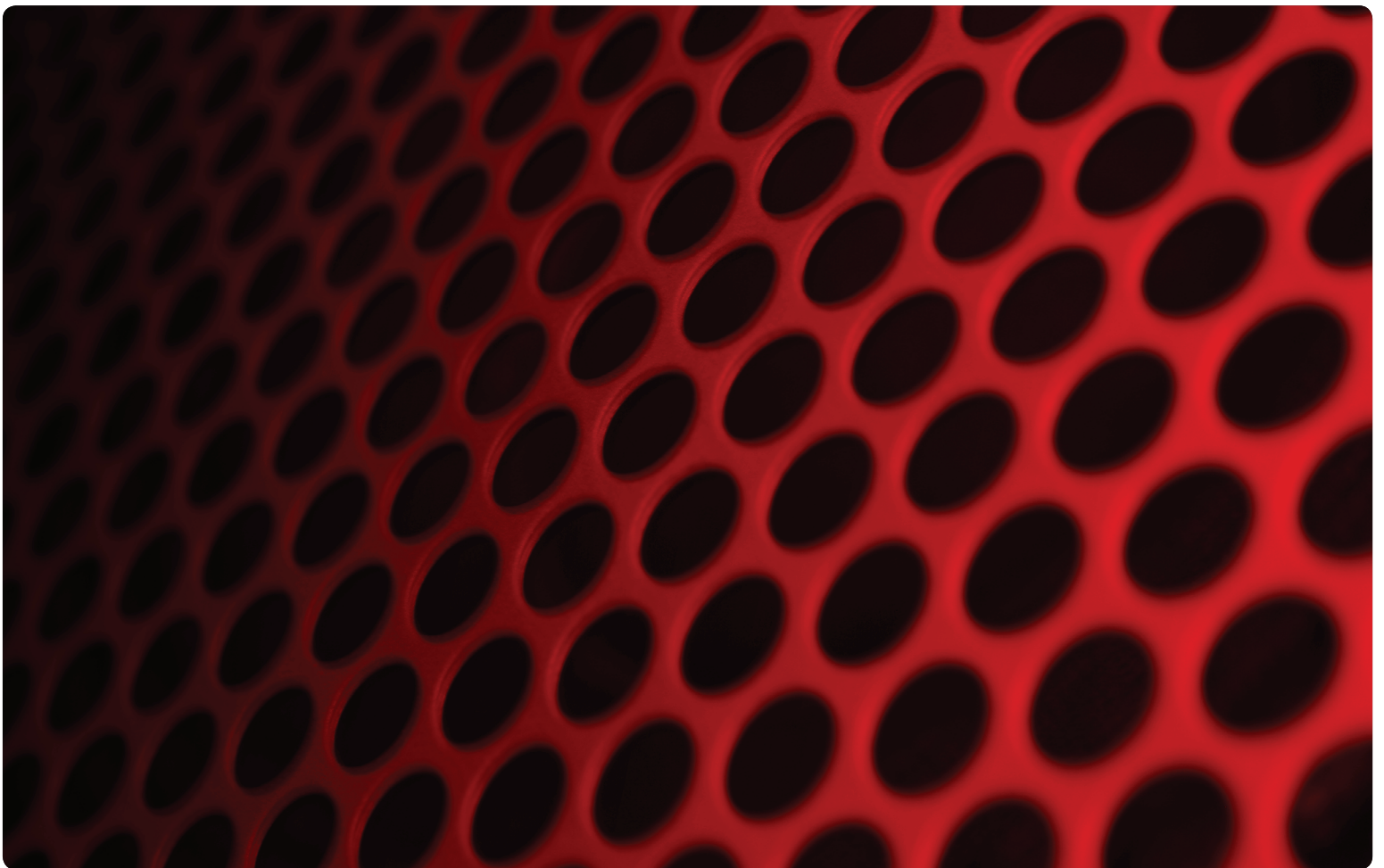
SMART Attribute Details

Provides a detailed description of SMART Attribute support and how each may be used.

Kingston® KC600 Attribute Details

ID	HEX	Attribute Name	Description
1	01h	Read Error Rate	Total number of SATA FIS interface CRC errors over the life of the drive.
5	05h	Re-Allocated NAND Block Count	Total number of NAND blocks re-allocated due to retirement expressed as a function of the total number of spare NAND blocks available to the device.
9	09h	Power-On Hours	Total amount of time, in hours, that the device has been powered-on over its lifetime.
12	0Ch	Power Cycle Count	Total number of power cycles that the device has experienced over its lifetime.
148	94h	Reserved	Reserved
149	95h	Reserved	Reserved
150	96h	Reserved	Reserved
151	97h	SLC Average Erase Count	Average number of SLC block erase count in SLC area that the device has experienced over its lifetime.
159	9Fh	DRAM 1 bit Error Count	Total number of DRAM 1bit error count that the device has experienced over its lifetime.
160	A0h	Reported UECC (UnCorrectable) Errors	Total number of uncorrectable ECC errors including errors occurring while reading non-user data that were reported back to the host.
161	A1h	Available Reserved Space	Total number of remaining spare blocks expressed as a function of maximum reserved blocks provisioned in the drive.
164	A4h	Reserved	Reserved
165	A5h	Reserved	Reserved
166	A6h	Reserved	Reserved
167	A7h	TLC Average Erase Count	Average number of TLC block erase count in TLC area that the device has experienced over its lifetime.
177	B1h	Reserved	Reserved
181	B5h	Program Fail Count	Total number of flash program failure events over the life of the drive.
182	B6h	Erase Fail Count	Total number of flash erase failure events over the life of the drive.
192	C0h	Unexpected Power Loss Count	Total number of unexpected or sudden power loss events.
194	C2h	Device Temperature	Current real-time temperature of the device as measured by the on-chip temperature sensor.
195	C3h	Hardware ECC Recovered	Total number of correctable ECC errors, including errors occurring while reading non-user data, expressed as a function of total data read over the interface.
196	C4h	Reallocation Event Count	Total number of uncorrectable ECC errors, including errors occurring while reading non-user data, expressed as a function of total data read over the interface.
197	C7h	UDMA CRC Error Count	Total number of SATA FIS interface CRC errors encountered over the life of the drive, including reads and writes.

ID	HEX	Attribute Name	Description
231	E7h	Percentage of Rated Lifetime Remaining	This Attribute will serve as a "life meter" for the drive and shall report the total lifetime budget consumed.
232	E8h	Unused Reserved Block Count	The number represents a ratio of the reserved block count.
241	F1h	Total LBAs Written	Total number of user data LBAs written by the drive over its lifetime.
242	F2h	Total LBAs Read	Total number of user data LBAs read by the drive over its lifetime.
245	F5h	Total Media Writes	Total number of user data committed to the drive's media over its lifetime.