Testing GBDriver RS3 Global Static Wear Levelling Effectiveness

RELATED PRODUCTS	GBDRIVER RS3 (SATA SSD Controller) CAG3B Series (1.0" SATA 3Gbps CFastTM SSD, SDG3B Series (2.5" SATA 3Gbps SSD) SMG3B Series (SATA 3Gbps mSATA Flash Module)											
TESTED DATE	2011/12/1 16:00 ~ 2012/1/24 11:30											
TESTED BY	TDK Corp, Flash Memory Applied Business, ESS BU [K. TAKUBO]											
TEST PROCEDURE	 (1) Loaded DOS in [16] Gbit Flash to occupy [90%] of all memory blocks. (2) Executed repeated data writes to the REST [10%] blocks; data size:[128KByte]. (3) Logged S.M.A.R.T. data peridically. 											
SAMPLES	[5] Samples [NAND: (WEEKLY [5] Samples [NAND: (WEEKLY [] Samples [NAND: (WEEKLY CODE:						✓ CONTROLLER: TDK GBDRIVER RS3 ✓] (WEEKLY CODE: 1011W3BHH) ✓ CONTROLLER: TDK GBDRIVER RS3 ✓] (WEEKLY CODE: 1030LU602) CONTROLLER: □] (WEEKLY CODE:)					
RESULTS	PASS / FAIL											
Erased Times	1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000		
Minimum	963	1,984	3,107	3,995	4,882	5,882	6,886	7,927	8,997	9,887		
Maximum	1,028	2,131	3,275	4,067	5,115	5,993	7,070	8,183	9,157	10,032		
%	6.50%	7.35%	5.60%	1.80%	4.66%	1.85%	2.63%	3.20%	1.78%	1.45%		
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TDK "Smart Swap" Global Static Wear Levelling (CAG3B/SDG3B/SMG3B Series) P/E Cycle 11,000 10,000 9,000 8,000 7,000 6,000 5,000 4,000 3,000 2,000 1,000 0 500 1000 1500 2000

Block No; Total [2048] Blocks of 16Gbit 8KB/Page SLC Flash Memory

TESTED &
REPORTED: DATE: 2011.2.1

[ASIC Design Section/FW Team] Kenichi TAKUBO

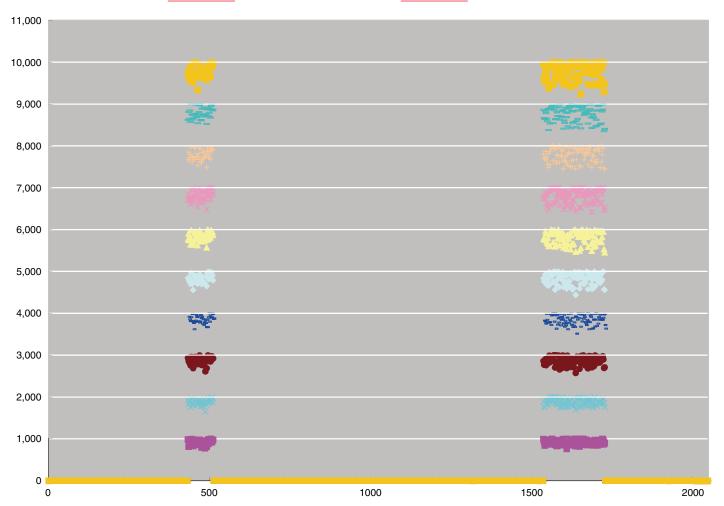
APPROVED &
SUBMITTED: DATE: 2011.2.2

[FAE Section] Rikiya KAWATA

For Reference

WITHOUT RS3 Global Static Wear Levelling

<u>WITHOUT</u> Global Static Wear Levelling (<u>WITHOUT</u> TDK SMART SWAP)



Block No; Total [2048] Blocks of 16Gbit 8KB/Page SLC Flash Memory

RESULTS		PASS / FAIL									
	Erased Times	1,000	2,000	3,000	4,000	<u>5,000</u>	<u>6,000</u>	7,000	<u>8,000</u>	9,000	10,000
	Minimum	1	1	1	1	1	1	1	1	1	1
	Maximum	1,000	1,999	2,999	3,999	5,000	5,999	7,000	7,999	9,000	10,500
	%	99.90%	99.90%	99.93%	99.95%	99.98%	99.97%	99.99%	99.98%	99.99%	104.99%
		OK/NG[/]	OK/NG[/]	OK/NG[/]	OK/NG[/]	OK/NG[/]	OK/NG[/]	OK/NG[/]	OK/NG[/]	OK/NG[/]	OK/NG[/]