Testing GBDriver RS4 Data Randomizer Effectiveness

RELATED PRODUCTS	GBDRIVER RS4 (SATA SSD Controller) SDG4A Series (2.5" SATA 3Gbps SSD) SHG4A Series (SATA 3Gbps Half Slim SSD)
TESTED DATE	2013/9/4 10:20 ～ 2013/9/27 11:30
TESTED BY	TDK Corp, Flash Memory Applied Business, ESS BU [H. Kamata]

TEST PROCEDURE

(1) Executed 1,000 times Read to the following flash memory chips, logged bit error.

No.1:	Program/Erase (P/E) Cycle	0
No.2:	P/E Cycle	1
No.3:	P/E Cycle	1000
No.4:	P/E Cycle	2000
No.5:	P/E Cycle	3000

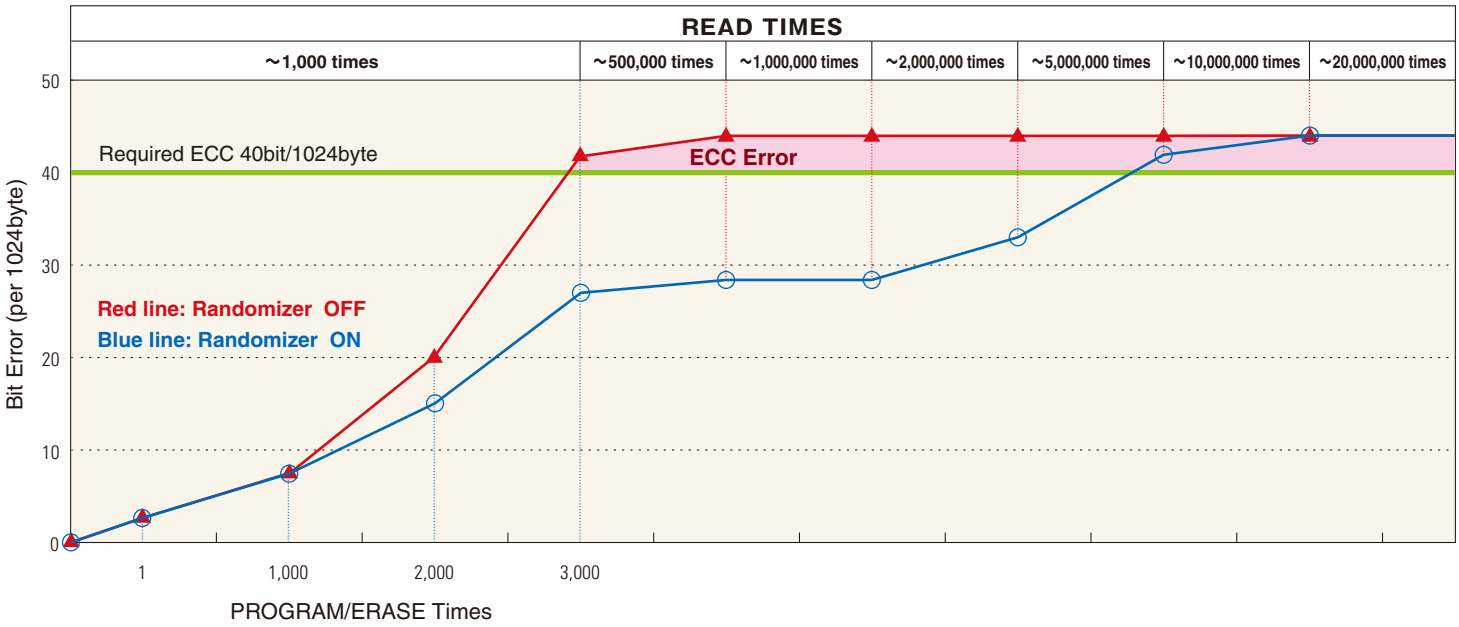
(2) Executed 10 million times Read to No.5 chip, logged bit error.

SAMPLES

[5] PCS [NAND: (WEEKLY	type: multi-level cell process: 1xn page size: 16KB/Page	☑	CONTROLLER: TDK GBDRIVER RS4 (WEEKLY CODE: 1320L3901) ☑]
[5] PCS [NAND: (WEEKLY		☑	CONTROLLER: TDK GBDRIVER RS4 (WEEKLY CODE: 1320L3902) ☑]
[ ] PCS [NAND: (WEEKLY CODE:		☐	CONTROLLER: (WEEKLY CODE:) ☐]

RESULTS

P/E \ READ	RANDOMIZER ON 1	500	1,000	2,000	5,000	10,000	RANDOMIZER OFF 1	500	1,000	2,000	5,000	10,000
0	0						0					
1	3						3					
1000	7						7					
2000	15						20					
3000	28	29	29	33	43	44	43	44	44	44	44	44



TESTED & REPORTED:	Hiroshi KAMATA	APPROVED:	Shunichi HANAFUSA
2013/9/25	FAE	2013/9/27	FAE