



INDUSTRIAL GRADE MEMORY CARD

SMART Tool User Guide



INDUSTRIAL MEMORY CARD SMART TOOL

FLEXON SMART tool for industrial grade memory card is very useful for health monitoring. It shows the reliability or endurance of memory card through the ECC, refresh count, abnormal power on count, erase count, good/bad block, etc. User can monitor the remaining life of the memory card and decide if there is a need to replace it.

Step 1: Launch Flexxon SMART Tool



Step 2: Select “Device” and click on “Get Info”



The following information will be displayed.
Please refer to Table 1 for more details.



Step 3: Flexxon SMART tool also provides the endurance life ratio chart, good block ratio chart, erase counter chart and scan bad block



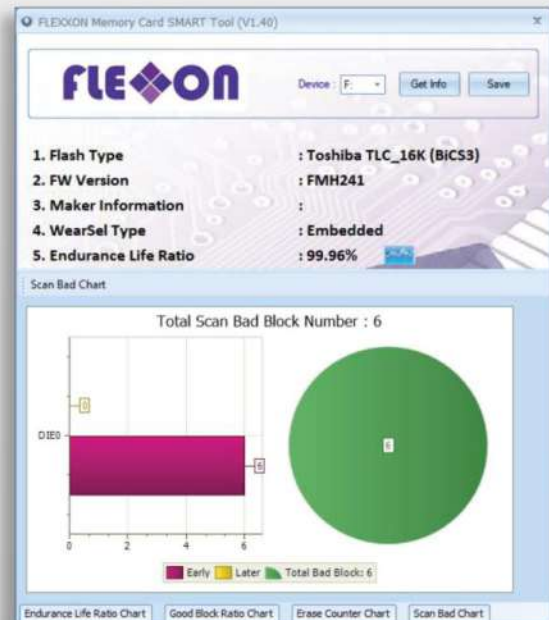
Endurance Life Ratio Chart



Good Block Ratio Chart



Erase Counter Chart



Good Block Ratio Chart

Industrial Memory Card

SMART Info

Flash Type	Flash brand, flash type, flash page size, flash process
FW Version	Firmware version
Maker Information	Pseudo SLC or not
WearSel Type	Enable Embedded Mode or not
Endurance Life Ratio	Life remaining of SD/microSD
Good Block Ratio	$[Total\ Block - (Early\ Bad\ Block + Later\ Bad\ Block)] / Total\ Block \times 100\%$
F/W ECC BIT Setting	Firmware ECC bit setting
Total Refresh Count	Total Read Refresh count
Total Power Up Count	Normal Power Up/Power supply count
Abnormal Power On Count	Unexpected and abnormal power loss count
Erase Count	Program/Erase count per block including Total/Max/Average erase count. Erase Endurance is logical erase cycles endurance.
Scan Bad Block	Early Bad Block: Initial bad blocks before using NAND flash Later Bad Block: Bad blocks after using NAND flash

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