Sony MPF BBT2 User Manual

General Description and Name

Sony MPF BBT2. This scheme Implements the skip block method for bad block handling but allows the user to create up to 16 partitions in the device.
Bad blocks within any partition do not affect the location of the other partitions. This BBM make bad block table in the last 2 good blocks.

Relevant User Options

The following special features on the special features tab apply to this scheme. The default values might work in some cases but please make sure to set the right value according to your system.
Please note only the below special feature items are related to this scheme and ignore any others. If any of below items doesn't exist, please check whether the right version has been installed or contact Data I/O for support by submitting Device Support Request through this address:
http://www.dataio.com/support/dsr.asp

Bad Block Handling Type = "Sony MPF BBT2"

Spare area : Please refer to "Description of common NAND special features.pdf". ***Normally set as "Enabled " for this BBM***.[Default 'Disabled']

Partition Table File = The path of the partition table file on your PC.

Bad Block Marker Offset = 99

Special BB Mark Valid= Enabled

Bad Block Mark Masks= 0x00FF

Special Notes

The image file's structure is 2048+128 => [Data A(512bytes) + ECC of Data A (10bytes) + OOB A(8bytes) + ECC of OOB A(10Bytes)] x 4 + Rreserved(16bytes)
If the number of blocks is under 2048, it will update bad block table in 1st page of the last 2 good blocks and then make ECC. If the number of blocks is 4096, it will update bad block table in 1st page and 2nd page of the last 2 good blocks and then make ECC.
The signature of mirror table is '1tbB' and the signature of main table is 'Bbt0'.

Revision History

V1.0 March 12, 2015
Create this spec.

Appendix

You can get the file “Description of common NAND special features.pdf” from http://ftp.dataio.com/FCNotes/BBM/