
Spare Pool Scheme User Manual

General Description and Name

Spare Pool Scheme. This scheme detect bad block and put the data into Reserve Pool Area. The reserved block also is signed as bad block physical number. For example, if block 3 of a device is bad, then block 3 of image will be programmed into first free block of Reserve Pool Area, and the block of Reserve Pool Area will be signed as 3 in spare area of page 2.

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 = "Spare Pool Scheme"

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

RBA area: Start block = 4015

RBA area: Number of blocks = 81

UBA area: Start block = 0

Special Notes

The spare area in this scheme uses a special ECC calculation.

The customer can select the size and location of the RBA. There is a check done at runtime to ensure that these values will all work together based on the device size and number of blocks. However, it is up to the customer to verify that the main array size will be large enough for their data file.

Revision History

V1.0 2010/12/13
Create this spec.

Appendix

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

Data I/O