

Boot Rom BBM

General Description and Name

Boot Rom BBM. This scheme mainly detects bad blocks in the device and program the data to the reserved area. For example, if block 7 of a device is the first bad block, then block 7 of the image will be programmed into the last good block of the device. And the information should be saved into the last page of block 0.

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 = **“Boot Rom”**

Spare Area = **“Update ECC field”** if the image contains the spare area data and that data should be programmed into the device, but needs the programmer system to update the ECC fields of the spare area(This is the normal option). **“Enabled”** if the image contains all the spare area data and that data should be programmed into the device. **“ECC”** if image file don't contain any spare area data.

RBA area: Number of blocks = the NUMBER of blocks reserved for the bad blocks. Normally **2%** of all blocks. Default **“20”**.

RBA area: Start block = The first block of the reserved area. Default **“1004”**.

Reserved block direction = determine how direction to use RBA. Default **“End to Start”**

All other features are not used for this scheme. Value is normally zero based.

Revision History

V1.0 MAR 28, 2011
Create this spec.

V1.1 MAR 31, 2011
Fix “RBA area: Start block” settings.

V1.2 APR 21, 2011
Add "Reserved block direction" setting.

Appendix

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