GBBM2.3_EXPIA User Manual

General Description and Name

This scheme Implements the Samsung GBBM2.3 bad block handling type for a special file format. This BBM is only for OneNand 2Kbyte or 4Kbyte page device.

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 =　　　　　　"GBBM2.3_EXPIA"

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

Unlocked area: Start block = "0x?"　　It depends on the customer in hex.

RBA area: Number of blocks = "?"　　It depends on the customer in dec. Samsung recommends this value = Max number of bad blocks + 6 extra block. Take 1024 blocks as an example, it should be 26.

RBA area: Start blocks = "?"　　　　　It depends on the customer in dec. It equals number of the device blocks – RBA area : Number of blocks.

UBA area: Start blocks = "?"　　　　　It depends on the customer in dec.

CPU Endian = "?".　　　　　　It depends on the CPU Endian. Little Endian or Big Endian. So far only little Endian is supported.

Special Notes

Bad block table called BMS in GBBM2.3_EXPIA.

If this scheme, or any bad blocking scheme is used, there are implications to the checksum of the image. As with any device, TLWin produces a checksum over the entire image rather than just the user data file.

If the chosen spare area option is "enabled", then the checksum will not be affected. It will be a checksum of the user data plus FFs to the end of the device image.

Revision History

V1.0   Jul. 10, 2010
       Create this spec.

Appendix

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