
SKIP BCH24EC User Manual

General Description and Name

This BBM is used skip policy to manage bad block.
The input file should be 512KB image file.
The ECC algorithm is BCH24EC.

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 = "Skip_BCH24EC"

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

Error bits allowed in one page : *Should set suitable value according to ECC, for this BBM set as '14bits' normally.* [Default 'None']

BCH24EC: UT Size in Pages : *UT size in how many pages. Normally set as "64" for this BBM.* [Default "64"]

BCH24EC: UT Repeat times : *UT repeat times. Normally set as "4" for this BBM.* [Default "4"]

BCH24EC: Enable Randomizer : *Randomizer switch. Normally set as "Enable" for this BBM.* [Default "Enable"]

BCH24EC: Randomizer Page Index Base : *Page 0 Index, only available if enable randomizer. Normally set as "0 Base" for this BBM.* [Default "0 Base"]

Special Notes

Now the BBM only support 512K UBoot file and will add the ECC code and duplicate 4 times. And do not support "Randomizer" programming.

The input file should exclude spare area. Algorithm will fill the pages on data with 0x00 and to calculate the ECC value.

Revision History

- V1.0 Dec 20, 2011
Create this spec.
- V1.1 Dec 28, 2011
Delete some un-need options.
- V1.2 Jan 09, 2012
Add some note.
- V1.3 Jan 16, 2012
Fix error bit allowed due to FPGA limitation.

Appendix

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

Data I/O