

---

# Skip BBT MPF HD62ECC HCC User Manual

## General Description and Name

This scheme Implements the skip bad blocks based on Bad Block Tables stored at the end of the NAND flash memory. The binary image includes the ECC.

## 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>

<u>Bad Block Handling Type</u> =	“Skip BBT MPF HD62ECC HCC”
<u>Spare area</u> =	“Enabled”
<u>PartitionTable File</u> =	“C:\PartitionTable.mbn”
<u>bad block detection</u> =	“BBM then BB marker”
<u>Check BB Marker In DataFile</u> =	“Disabled”
<u>Spare area size in data file</u> =	“12”
<u>Error bits allowed in one page</u> =	How many error bits allowed within one page

## Special Notes

- The image file should contain the ECC (12 bytes per page ).
- DO NOT program fresh device (Not programmed by this BBM) and re-programmed device together.
- Format of **PartitionTable.mbn** :
  1. Binary file has fixed length 256 bytes.
  2. Little endian.
  3. Each row of the table describes the configuration for one partition. Up to 16 partitions can be used.
  4. Partition format:
    - a. **Start Block**: Partition start block.
    - b. **End Block**: Partition end block.
    - c. **Valid Data Length**: number of blocks of data get from the image file and write to the device
    - d. **Attribute**: ignore

Partition Table File:

Start Block (4 Bytes)	End Block (4 Bytes)	Valid Data Block (4 Bytes)	Attribute
0x0	0x57	0x02	0xFFFFFFFF

➤ Partition Table file template:

```

00000000h: 00 00 00 00 57 00 00 00 02 00 00 00 FF FF FF FF ; ....W.....
00000010h: 58 00 00 00 AB 00 00 00 02 00 00 00 FF FF FF FF ; X...?.....
00000020h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
00000030h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
00000040h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
00000050h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
00000060h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
00000070h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
00000080h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
00000090h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
000000a0h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
000000b0h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
000000c0h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
000000d0h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
000000e0h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;
000000f0h: FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF ;

```

## Revision History

V1.0 Date: 2016-05-04  
Create this spec.

## Appendix

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