

## **American Megatrends, Inc.**

# **AMIBIOS 101094 RELEASE NOTES**

### **Summary**

This document is the release notes of 101094 AMIBIOS.

**Revision 1.0**

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### **Revision History**

Revision 1.0      WinBIOS/HiFlex 101094

## **0.0 INTRODUCTION**

This document describes the features, changes, additions to 101094 Core BIOS from 072594 Core BIOS.

Please note that there are few changes in porting from 072594 BIOS. Please read the BIOSPORT.DOC for details.

This document is divided into following sections:

1. Changes and Modifications to 101094 Core from 072594 Core
2. General Notes

## **1.0 CHANGES AND MODIFICATIONS TO 101094 CORE FROM 072594 CORE**

- \* Multiple CPU support module.
- \* GreenPC/APM 1.0/APM 1.1 support module.
- \* PCI Bridge support.
- \* PCI 2.1 BIOS Specification support.
- \* IDE PIO Mode-4 support.
- \* Uncompressed INIT code no longer of fixed 8K size.
- \* Floppy drive swapping. Floppy drive setting in Standard CMOS setup always corresponds to the physical drive configuration while floppy drive error messages during POST and floppy drive information in system configuration display, BIOS global data area, etc. after boot-up corresponds to logical drive setting. Please note that logical drive setting will be reversed from the physical drive setting if floppy drive swapping is enabled in setup.
- \* Bit-0 of CMOS register 2Ch is now used for Floppy drive swapping in setup. (Previously it was reserved).
- \* Bit 7-4 of CMOS register 37h is now used for CPU override selection in setup. (Previously it was used for password seed).
- \* System Configuration Display displays the details of configured parameters (LBA mode, 32bit mode, PIO mode, etc.) of the Hard Disks.
- \* New Boot Block Recovery code takes care of DRAM without parity.
- \* Support of function E8h, subfunction 01h of INT-15.
- \* Space problem of 072594. Please see BIOSPORT.DOC for details.
- \* AMIBCP version 5.11. Please see UTIL.DOC for details.

\* EQUATOR version 1.4. Please see UTIL.DOC for details.

\* ZINFO version 1.1. Please see UTIL.DOC for details.

The following problems are solved:

1. The error code from Floppy Controller Reset function (function 00h, INT-40) when Floppy IRQ is disabled.
2. The sector count returned by read/write function of INT-40.
3. The drive number is checked in function 14h, INT-13.
4. Removal of invalid segment limit error in function 87h, INT-15.
5. Parity error checking for DRAM without parity chip so that user will be able to goto Setup to disable/enable parity checking.

## **2.0 GENERAL NOTES**

1. The following mice are supported in setup in this release:

- \* PS/2 mice
- \* BUS mice with IRQ 3,4,5 (IRQ2 is not supported)
- \* Microsoft compatible mice (M, V, W Series: M,M+ Protocol)
- \* Logitech C-series compatible mice (MM Protocol)

The following mice are tested:

### **\* PS/2 Mice**

1. Microsoft PIX
2. Logitech MouseMan PIX M-CJ13
3. Keytronic KeyMouse
4. True Mouse - 00343
5. Dell Mouse - 0019306
6. Sejin SWB-200
7. Micro Track Trackball PD600-9333
8. Addison Trackball #20038
9. Expert Mouse (Trackball) Version 2.0

### **\* Serial Mice**

1. Microsoft PIX
2. Microsoft 37967
3. Logitech MouseMan PIX M-CJ13
4. Logitech C-Series CC-93-9F
5. Logitech FirstMouse M-MD15L-9F
6. Logitech KIDZ M-ME23-9F
7. Logitech MouseMan Cordless M-RA12
8. Logitech Trackman T-CC3-9F

9. Genius (MS and MSC compatible) GM-D321
10. Addison 290 #20010 (MS & MSC compatible)
11. Addison 420 #20015 (MS & MSC compatible)
12. Addison 400 ErgoMouse H7001 (MS & MSC compatible)
13. Addison Trackball #20038
14. Mouse Systems MSC 401961-002/E (MS & MSC compatible)
15. Flash Point-2
16. Dexxa MF21-9F
17. Easy Options #60G3580
18. PC Accessories 280PCA #20010 (MS & MSC compatible)
19. PC Accessories Keyboard with Tracking Ball KB-5591
20. Digits (The Magic Click) ASM-604880
21. Micro Track Trackball PD600-9333
22. Expert Mouse (Trackball) Version 2.0
23. CompuDyne MUS2G (MS & MSC compatible)
24. Mouse Systems 403470-002
25. Mouse Systems Optical Mouse 401961-002/E
26. Firenze Mouse TC6
27. AT4 Mouse AT-5 (MS & MSC compatible)
28. Optronix Corporation X-30M

**\* BUS Mice**

1. Microsoft mouse with Microsoft Bus Mouse Rev-C card
  2. Microsoft InPort mouse with Logitech Bus card
  3. Logitech Bus mouse M-PD13-9MD with Logitech Bus card
2. Standard cmos checksum:  $10+11+\dots+2C+2D \Rightarrow 2E(H), 2F(L)$
  3. Extended cmos checksum:  $37+\dots+3D [+40+\dots+ \text{Last CMOS register}] \Rightarrow 3E(H), 3F(L)$
  4. Please note that DOS FORMAT for hard disks does NOT use INT-13 format function (AH = 05h) for formatting the hard disk, it only verifies the hard disk using INT-13 verify function (AH = 04h). Virus warning message will not be displayed during DOS formatting of hard disks.
  5. In case of virus warning message, if user selects to continue, the operation will continue as normal. But if user selects NOT to continue, user may have to press 'N' a few times (depending on how many retries are done by upper level software e.g. minimum 5 retries are done by DOS) before program gets actually aborted.
  6. Please use the proper I/O chipset files meant for 101094 Core BIOS.
  7. Please use 101094 Core BIOS's files while porting the BIOSs.
  8. Please read BIOSPORT.DOC document for BIOS porting details.