



DATE: August 25th, 2005
PRODUCT: D945GTP/D945GNT/D945GCZ Standard BIOS

Build 2104C

About This Release:

- August 25 2005
- NT94510J.86A.2104.2005.0825.1650
- VBIOS: 1235
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.1.1.1002
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

For boards that support Intel® Active Management Technology you must first flash to BIOS build 1788 and then flash from 1788 to newer BIOS otherwise it will not flash.

- Fixed flash update issue found when using no reboot method.
- Forced IGD as Primary Video in Manufacturing Mode on supported boards.

Build 2027C

About This Release:

- August 18 2005
- NT94510J.86A.2027.2005.0818.1036
- VBIOS: 1235
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.1.1.1002
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

For boards that support Intel® Active Management Technology you must first flash to BIOS build 1788 and then flash from 1788 to newer BIOS otherwise it will not flash.

- Fixed PCIe issue found if a PCI to PCI Bridge was connected with a video card behind it.
- Fixed IGD yellow-bang issue involving the PCI card.
- Updated the ICH7 RAID option ROM to version Intel(R) RAID for SATA - v5.1.1.1002.
- Updated PXE support.
- Corrected IFlash update hang.
- Fixed specific DVD drive detection issue.
- Added support for displaying remote terminal color while using Intel® Active Management Technology Serial-Over-LAN (SOL).

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- Fixed issue where certain application's video output would not display on the remote terminal while Intel® Active Management Technology Serial-Over-LAN (SOL) is active.
- Fixed issue where terminal arrow keys and terminal F1-F4 keys were not recognized by Intel® Active Management Technology Serial-Over-Lan (SOL).
- Updated chipset support.
- Updated CMOS battery failure detection.
- Corrected errors found when more than 2 gigs of memory is installed in a system.
- Fixed ECC detection and logging errors.
- Added support for PERR/SERR events detection and logging.
- Added date/time information for ECC events.
- Fixed Key Help alignment & format in setup.
- Updated to Intel® Active Management Technology 1.2.1 release with 16 bit legacy error code return values supported.
- Added dual Heceta6 support.
- Fixed reset hang and boot issues found with specific hardware configurations.
- Fixed long system delays while booting with Intel® Active Management Technology IDER enabled and SATA drives attached to the system.
- Fixed dual display of message pop-up box in Setup.

Build 2006C

About This Release:

- August 10 2005
- NT94510J.86A.2006.2005.0810.1817
- VBIOS: 1235
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.1.0.1022
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

For boards that support Intel® Active Management Technology you must first flash to BIOS build 1788 and then flash from 1788 to newer BIOS otherwise it will not flash.

- Added setup option for USB Legacy Enable/Disable.
- Fixed issue where some USB thumb drives are not detected on hard power-on.
- Fixed issue where user was unable to enter Intel SCSI RAID SETUP if another bootable device was in the system.
- Fixed issue where some operating system installs would hang when 4 SATA drives were attached to the system.
- Fixed issue where certain USB floppy disk drives were inaccessible in Microsoft* DOS after ejecting floppy media.
- Fixed issue where PCI SERR and NMI are disabled at system boot.
- Fixed issue where certain combinations of PS/2 and USB keyboards and mice would not function with USB legacy.
- Fixed SOL window of opportunity issues.

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- Corrected flow to send Start ASF Watchdog Timer and OS Boot PET msg.
- Fixed ASF PET message issues & added Stop ASF WDT.
- Set SOL VGA Redirect OPROM code to clear screen before boot to OS.
- Added support for dynamic BIOS Setup changes based on Intel® Active Management Technology.
- Added support for USB mass device emulation in BIOS SETUP boot order.
- Added additional space for CPU microcode at main block.
- Added setup option for USB Legacy Enable/Disable.
- Updated PXE support.
- Enabled Intel® Quick Resume Technology by default.
- Updated the Board Id table.
- Fixed IFlash update hang.
- Fixed dual display of message pop-up box in Setup.
- Added ability to flash update the Intel® Active Management Technology code.
- Modified flash interface.

Build 1788C

About This Release:

- July 28 2005
- NT94510J.86A.1788.2005.0728.1510
- VBIOS: 1235
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.1.0.1022
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Fixed key help & pop-up message strings to reflect current language in Setup.
- Fixed "Exit Discard Changes" functionality in Setup.
- Corrected functionality of the "USB ZIP Emulation Type" BIOS SETUP question in Manufacturing Mode.
- Enabled future Flashing of Intel® Active Management Technology code for boards that support the feature.
- Updated Video BIOS to Build 1235.
- Updated the ICH7 RAID option ROM to version Intel(R) RAID for SATA - v5.1.0.1022.

Build 1783C

About This Release:

- July 27 2005
- NT94510J.86A.1783.2005.0727.1533
- VBIOS: 1229
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

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- Fixed disproportionate BIO file size increase that occurred when adding a custom splash screen.
- Fixed issue where 16-bit PCMCIA cards were not detected correctly in some operating systems.
- Move the USB ZIP question to BOOT (changed the question name to reflect this move).
- Fixed USB boot issue to match "Boot to USB" setup question.
- Fixed long delay in POST when certain zip drives are attached as a single master drive in the system.
- Fixed issue where some Keyboard-Video-Mouse switches would reset just before system boot.
- Fixed intermittent system hang or long delay just before boot to USB device.
- Fixed USB floppy boot issue.
- Fixed SMBIOS Type10 Onboard Video Device status reporting.
- Added workaround to fix LAN drop issue.
- Fixed Intel® Express Bios Update fail to reboot but shutdown system if FP Audio attached.
- Initial Glenwood-DG MRC updates.
- Fixed priority issue in Advance Boot Mode when legacy floppy is installed without media.
- Updated to allow system to wake from S4 via PCI/PCIe devices when ACPI Suspend State set to S1.
- Added feature to Enable/Disable Maximum CPUID Value Limit.
- Modified flash interface.
- Added BTX form factor support for Intel® Desktop Control Center.
- Added dynamic support for COM2 based on board features.

Comment [1]: huh?

Comment [2]: What should I list here?

Build 1616C

About This Release:

- July 08 2005
- NT94510J.86A.1616.2005.0708.1742
- VBIOS info: 1229
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Fixed audio issue that occurred after S3 resume.
- Added support for issuing ATA Security Freeze Lock to IDE devices on resume from S3.

Build 1590C

About This Release:

- July 07 2005
- NT94510J.86A.1590.2005.0706.1530
- VBIOS: 1229
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

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New Fixes/Features:

- Updated processor support.
- Fixed issue with Intel® Active Management Technology SOL and SATA boot.
- Fixed an issue with some types of DDR667 memory.
- Fixed a delay seen with some CD drives.
- Fixed bios so F9 key loads BIOS defaults in configuration mode.

Build 1493C**About This Release:**

- June 22 2005
- NT94510J.86A.1493.2005.0622.1649
- VBIOS info: 1229
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Updated processor support.
- Fixed 10/100 LAN drop issue.
- Fixed SOL display when booting to DOS.
- Changed menu text in the aggressive settings.
- Fixed specific CD ROM detection issues.
- Fixed POST hang with x8 PCI Express SCSI card.
- Fixed several second delay in POST while performing PS/2 port-swapping.
- Changed Intel® Active Management Technology setup entry and messages.
- Updated to Intel® Active Management Technology 1.2 release.
- Fixed convert and restore flash process.
- Added S3 support for the Trusted Platform Module.
- Fixed non-graphics card in PEG slot issue.

Build 1348C**About This Release:**

- June 09 2005
- NT94510J.86A.1348.2005.0609.1737
- VBIOS: 1224
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Resolved hang issues with a specific CPU.
- Fixed TPM enable/disable functionality.
- Fixed certain CD ROMs detection issues.
- Fixed an issue with a specific RAID card.
- All drives now receive the Security Freeze Lock command during POST.

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- Set BIOS to use less system memory (2MB) for BIOS usage.
- Fixed boot delay issue when certain optical drives are set as stand alone masters.
- Prevents loss of Intel® Active Management Technology functionality after BIOS update.

Build 1241C

About This Release:

- June 01 2005
- NT94510J.86A.1241.2005.0601.1508
- VBIOS: 1224
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Added latest processor updates.
- Added Flex Logo & Optional Module support.
- Updated slow POST with CD-ROM fix.
- Fixed an issue of Microsoft* Windows XP using PIO drive transfer mode instead of DMA.

Build 1220C

About This Release:

- May 27 2005
- NT94510J.86A.1220.2005.0527.1540
- VBIOS: 1224
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Added latest processor updates.
- Fixed long delay in POST when some CD-ROMs are attached as an IDE master device.
- Fixed issue where Microsoft* Windows was unable to enable DMA on system SATA drives.

Build 1176C

About This Release:

- May 24 2005
- NT94510J.86A.1176.2005.0524.1846
- VBIOS: 1224
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

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New Fixes/Features:

- Added latest processor updates.
- Fixed a problem where PEG video devices that contain bridges do not work as the primary video device.
- Fixed slow POST when certain CD-ROMs are attached to the system.
- Fixed issue with Type 17 SMBIOS information.
- Fixed issue with incorrect SMBIOS PCI/PCIe slot information.
- Added Event Log Prompt support.
- Added display of System in Manufacturing Mode.
- Added support for writing SMBIOS data securely via EFI variables.
- Fixed errors with some memory stress tests when USB keyboard is plugged in the system.
- Fixed a benchmark hang with some PCI Express video cards.
- Fixed a problem where the setup option for XD Execute Disable bit did not work correctly.
- Added setup option for SW Single Processor Mode.
- Update MBI support according to spec rev1.3.
- Fixed a problem where the setup option for XD Execute Disable bit did not work correct.
- Fixed issue where system would reboot when calling TCG INT1A functions.
- Added Master Boot Record (MBR) measurement support for the Trusted Platform Module.

Comment [13]: have Jairaj explain this

Build 1088C**About This Release:**

- May 19 2005
- NT94510J.86A.1088.2005.0519.1710
- VBIOS: 1224
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.0.0.1032
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Added latest processor updates.
- Updated board features table.

Build 1042C**About This Release:**

- May 13, 2005
- NT94510J.86A.1042.2005.0513.1523
- VBIOS: 1224
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.1.0.1013
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Fixed issue where fifth BIOS drive (84h) is not accessible via INT13h in certain system configurations.

Comment [14]: how do I translate this?

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About This Release:

- May 09, 2005
- NT94510J.86A.0980.2005.0509.1536
- VBIOS: 1224
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.1.0.1013
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Initial production release.