



PRODUCTS: D945GNT, D945GCZ, D945GTP (Standard BIOS)

BIOS Version 2706

About This Release:

- September 29, 2005
- NT94510J.86A.2706.2005.0929.1417
- VBIOS info: Build Number: 1239
- SATA RAID info: Intel(R) RAID for SATA - v5.1.1.1002
- AMT info:
 - AMT Firmware: v1.1.36
 - AMTBX Firmware: v1.2.1
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

Note: For boards that support iAMT you must first flash to BIOS build 1788 and then flash from 1788 to newer BIOS otherwise the flash will fail.

New Fixes/Features:

- Fixed a problem where the PCI slot 2 would not work if the system was in manufacturing mode.
- Fixed issue where AMT client would timeout when both IDER and SOL were active when accessing a Floppy-emulated EI-Torito CD image.
- Fix a logic error for the AMT extend scan key delay algorithm that seen in previous implementation.
- Added support to dynamically set SATA default based on board sku.
- Hide ASF Support setup question on AMT supported skus.

BIOS Version 2663

About This Release:

- September 26, 2005
- NT94510J.86A.2663.2005.0926.1137
- VBIOS info: Build Number: 1239
- SATA RAID info: Intel(R) RAID for SATA - v5.1.1.1002
- AMT info:
 - AMT Firmware: v1.1.36
 - AMTBX Firmware: v1.2.1
- Initializing Intel(R) Boot Agent FE v4.1.17
- Initializing Intel(R) Boot Agent GE v1.2.28

Note: For boards that support iAMT you must first flash to BIOS build 1788 and then flash from 1788 to newer BIOS otherwise the flash will fail.

New Fixes/Features:

- Fixed BIOS Version update failure during lflash update.
- Added Auxiliary Fan Speed display in Hardware Monitoring page of Setup.
- Allow BIOS to unprovision AMT without password.
- Hide ASF Support setup question on AMT supported skus.
- Fixed issue where system could not boot Windows* XP installation CD from a Plextor* PX-712SA SATA CD-ROM.

- Fixed issue where Sony* USM128U2 USB thumb drive is not seen in BIOS SETUP.
- Added feature to fill in Socket Designation field within SMBIOS Type 4 structure.
- Fixed PXE intermittent fail to download Remote Boot Image (NBP).

BIOS Version 2564

About This Release:

- September 9, 2005
- NT94510J.86A.2564.2005.0909.1645
- VBIOS info: Build Number: 1239
- 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

Note: For boards that support iAMT you must first flash to BIOS build 1788 and then flash from 1788 to newer BIOS otherwise the flash will fail.

New Fixes/Features:

- Modified SATA support for D945GTP sku.
- Added ability to flash update the iAMT code.
- Fixed issue where terminal Escape key was sometimes not recognized using AMT Serial-over-LAN (SOL).
- Allow BIOS to unprovision AMT without password.
- Update Quick Resume Technology to Bios spec. rev0.95.
- Fixed low throughput on PCI bus.
- Fixed issue where Windows installation or boot hung with SCRU42X RAID card.
- Fixed error when installing Windows* XP over IDER.
- Added S3 support for TPM.
- Fixed ITK workspace issue and WinPE flash (with ITK .BIO) issue.
- Fixed flash issue with BMP logo where badges would disappear.

BIOS Version 2487

About This Release:

- September 6, 2005
- NT94510J.86A.2487.2005.0906.1451
- VBIOS Build Number: 1239
- 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

Note: For boards that support iAMT you must first flash to BIOS build 1788 and then flash from 1788 to newer BIOS otherwise the flash will fail.

New Fixes/Features:

- Added support for universal 16-bit TPM 1.2 driver binary.
- Updated Video BIOS to Build 1239.
- Fixed SMBIOS Type 16 Memory Error Correction reporting.
- Fixed Discard Changes pop-up message box display in setup.
- Fixed User Access Level question scope in Full Access mode.
- Fixed a problem where F2 enter setup key only worked after Option ROM scan.
- Improved ATAPI CD read performance for AMT IDER CD device read access.
- Added COM2 support for OEMD945GTPT1 and added LAD945GTPL2 board Id.

BIOS Version 2104

About This Release:

- August 25 2005
- NT94510J.86A.2104.2005.0825.1650
- VBIOS Build Number: 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

Note: For boards that support iAMT you must first flash to BIOS build 1788 and then flash from 1788 to newer BIOS otherwise the flash will fail.

New Fixes/Features:

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

BIOS Version 2027

About This Release:

- August 18 2005
- NT94510J.86A.2027.2005.0818.1036
- VBIOS Build Number: 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

For boards that support iAMT you must first flash to BIOS build 1788 and then flash from 1788 to newer BIOS otherwise the flash will fail.

New Fixes/Features:

- Fixed PCIx 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).
- 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.

*Other names and brands may be claimed as the property of others.

About This Release:

- August 10 2005
- NT94510J.86A.2006.2005.0810.1817
- VBIOS Build Number: 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

For boards that support iAMT you must first flash to BIOS build 1788 and then flash from 1788 to newer BIOS otherwise the flash will fail.

New Fixes/Features:

- 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.
- 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.

About This Release:

- July 28 2005
- NT94510J.86A.1788.2005.0728.1510
- VBIOS Build Number: 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.

BIOS Version 1783

About This Release:

- July 27 2005
- NT94510J.86A.1783.2005.0727.1533
- VBIOS Build Number: 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 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.
- Fixed priority issue in Advance Boot Mode when legacy floppy is installed without media.
- Updated to allow system to wake from S4 via PCI/PClx 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.

BIOS Version 1616

About This Release:

- July 08 2005
- NT94510J.86A.1616.2005.0708.1742
- VBIOS Build Number: 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 an audio issue that occurred after S3 resume.
- Added support for issuing ATA Security Freeze Lock to IDE devices on resume from S3.

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BIOS Version 1590

About This Release:

- July 06 2005
- NT94510J.86A.1590.2005.0706.1530
- VBIOS Build Number: 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 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.

BIOS Version 1493

About This Release:

- June 22 2005
- NT94510J.86A.1493.2005.0622.1649
- VBIOS Build Number: 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.

BIOS Version 1348

About This Release:

- June 09 2005
- NT94510J.86A.1348.2005.0609.1737
- VBIOS Build Number: 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.

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- All drives now receive the Security Freeze Lock command during POST.
- 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.

BIOS Version 1241

About This Release:

- June 01 2005
- NT94510J.86A.1241.2005.0601.1508
- VBIOS Build Number: 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.

BIOS Version 1220

About This Release:

- May 27 2005
- NT94510J.86A.1220.2005.0527.1540
- VBIOS Build Number: 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.

BIOS Version 1176

About This Release:

- May 24 2005
- NT94510J.86A.1176.2005.0524.1846
- VBIOS Build Number: 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 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/PClx slot information.
- Added Event Log Prompt support.
- Added display of System in Manufacturing Mode.

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- 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.

BIOS Version 1088

About This Release:

- May 19 2005
- NT94510J.86A.1088.2005.0519.1710
- VBIOS Build Number: 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.

BIOS Version 1042

About This Release:

- May 13, 2005
- NT94510J.86A.1042.2005.0513.1523
- VBIOS Build Number: 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.

BIOS Version 0980

About This Release:

- May 09, 2005
- NT94510J.86A.0980.2005.0509.1536
- VBIOS Build Number: 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 release.