



BIOS Update Release Notes

PRODUCTS: D975XBX (Standard BIOS)

BIOS Version 1474

About This BIOS:

- December 20, 2006
- BX97510J.86A.1474.2006.1220.1826
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.6.2.1002
 - Silicon Image RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28
- Intel® Active Management Technology info:
 - Intel® AMT BX Firmware: v1.2.3

New Fixes/Features:

- Change EIST setup option default to disable to workaround system hang with certain processors.

BIOS Version 1463

About This BIOS:

- November 29, 2006
- BX97510J.86A.1463.2006.1129.1718
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.6.2.1002
 - Silicon Image RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28
- Intel® Active Management Technology info:
 - Intel® AMT BX Firmware: v1.2.3

New Fixes/Features:

- Fixed issue where BitLocker System Check would not pass.
- Fixed issue where system would not recognize CTRL+ALT+DEL key sequence.
- Fixed failures with the TCG ACPI Event Log when running the Vista* DTM TCG TPM BIOS Interface Test.
- Fixed ACPI failures when running the Vista DTM TCG TPM Integration Test.
- Fixed issue where Intel® Audio Studio does not launch with 3GB Memory and certain PCI-E video card.
- Added Microsoft Vista support for Audio Codecs.
- Fixed display of cache for multi-core processors.

BIOS Version 1441

About This BIOS:

- October 25, 2006
- BX97510J.86A.1441.2006.1025.1410

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

- SATA RAID info:
 - Intel(R) RAID for SATA - v5.6.2.1002
 - Silicon Image RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28
- Intel® Active Management Technology info:
 - Intel® AMT BX Firmware: v1.2.3

New Fixes/Features:

- Added PEG port Power Management Tab in Device Manager.
- Fixed consecutive read and/or writes of password supplied secure variables.
- Added Thermal Diode support for new processors.
- Fixed issue where TPM Physical Presence was not cleared and locked intermittently at the end of POST.
- Added workarounds to fix several TPM issues including unreliable enabling/disabling and PCRs not getting cleared at system reset intermittently.
- If the system is in manufacturing mode, do not disable TPM INT1A interface if the BIOS SETUP TPM Enabled question is set to "Disabled".
- Fixed no BIOS SETUP text after first remote AMT SOL request to enter BIOS SETUP.
- Fixed an issue where S3 resume did not work with dual core processors.
- Added support for future operating system SLP 2.0 for standard product Intel Desktop Boards BIOS.
- Supports OEM Activation 2.0. For details on the OEM Activation Program, send email to oasighn@microsoft.com
- Fixed issue where changing certain Setup Options and using F10 to Save and Exit would not cause a system reset.
- Removed redundant SDRAM references from Memory Configuration page in Setup.
- Fixed SMBIOS HCT failure where Type 0 "Enable Targeted Content Distribution" bit is not set (for future operating system).
- Fixed issue where disk partitions are sometimes not seen during operating system installation.
- Fixed potential issue where Heceta6 not functional after S3.
- Fixed issue where S3 did not work with certain processors.
- Added setup option to control Power LED Off/Blink in S3 state.
- Updated Heceta6 BMI sequence
- Fixed issue where operating system could not initialize TPM 1.2 for BitLocker support.

BIOS Version 1351

About This BIOS:

- August 21, 2006
- BX97510J.86A.1351.2006.0821.1744
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.6.2.1002
 - Silicon Image RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Fixed issue where operating system CD installation caused blue screen.

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

- Resolved the USB HID keyboard typematic issue.
- Fixed issue where USB HID keyboard bar code scanners were dropping characters under DOS.
- Fixed issue where a device behind multiple bridges (2+) will get an invalid IRQ assignment.
- Fixed floppy drive test failure on certain floppy drives.
- Fixed POST delay at POST code 5A when certain CD-ROM drives are attached to the system.

BIOS Version 1334

About This BIOS:

- July 14, 2006
- BX97510J.86A.1334.2006.0714.1343
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.6.2.1002
 - Silicon Image RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Added support for Intel® Core™2 Extreme Processor and Intel® Core™2 Duo Processors.
- Fixed a problem where Intel brand badge wasn't displayed with certain processor.
- Fixed issue where USB mouse only would not work with certain HDD protection card.
- Fixed issue where operating system recovery hangs at certain steps when using only a USB mouse.
- Fixed Device Manager reporting of incorrect slot information.

BIOS Version 1304

About This BIOS:

- June 20, 2006
- BX97510J.86A.1304.2006.0620.1451
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.6.2.1002
 - Silicon Image RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Fixed issue where Dual-Rank DIMM in Channel A and Single-Rank DIMM in Channel B caused memory failure during POST.
- Unhide "HPET Enable/Disable" BIOS setup option and set default state to "Disable".
- Fixed issue where certain floppy-emulation images were unable to load from USB CD-ROM drives.
- Modified SMBIOS Runtime Plug-and-Play functions to return "Not Supported" on systems not supporting SMBIOS Runtime functions.
- Fixed issue where EFI boot floppy would not boot from USB floppy drives.
- Fixed issue where USB HID keyboard bar code scanners were dropping characters under DOS.
- Fixed issue where certain USB flash drive was not detected by the BIOS.
- Increase maximum for Host Burn-In Percentage to 50%.

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

- Moved USB Port setup option to USB configuration page.
- Fixed issue where certain IDE adapters are not detected by the system BIOS.
- Removed CPU Core Multiplexing Technology BIOS Setup Option from Main page.

BIOS Version 1181

About This BIOS:

- May 26, 2006
- BX97510J.86A.1181.2006.0526.1131
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.6.2.1002
 - Silicon Image RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Corrected CPU Vid default value for certain processors.
- Fixed issue where user was unable to enter certain host adapter setup.
- Hid "Clear Trusted Platform Module" option in Setup Maintenance page if TPM is not enabled or is not supported.
- Fixed yellow bang in Device Manager for the TPM 1.2 device.
- Fixed the issue where Intel Desktop Control Center will not launch if FSB margins set higher than 10%.
- Fixed the issue with CPU All Fans On temp needing a -3 offset for user defined BMI sequences.
- Fixed Setup Date option to change day to 01 if the current day is invalid for the selected month or year.
- Replaced all CPU badges with Intel Master Brand logo badge.
- Removed Aux Power option from BIOS Setup.
- Updated Intel® Quick Resume Technology BIOS Setup default to Disabled.

BIOS Version 1073

About This BIOS:

- April 27, 2006
- BX97510J.86A.1073.2006.0427.1210
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.6.2.1002
 - Silicon Image RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Fixed out of sync power-cycle after AC loss on performance boards.
- Added Flex Variable write support.
- Added work-around for IDE-R 6 hour open session issue in a host software package.
- Fixed issue where system would hang with certain third-party IDE controllers installed in the system.
- Fixed a problem where Boot Order in Setup will revert back to default if the user "ESC" from other sub-menu.
- Fixed issue where certain SCSI host controller cards were not functional.
- Fixed HPET always showing in Device Manager.

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

- Fixed a problem where PEG video devices that contain bridges do not work as the primary video device.
- Fixed certain ATM card reader causing POST delay when USB Legacy "Enabled."
- Enable USB Keyboard during only POST even if USB Legacy is disabled in Setup.
- Fixed "CMOS Timer Not Set" event has incorrect event count and incorrect time stamp.
- Fixed issue BIOS not able to detect CMOS battery failure.
- Added support for IDCC Version 2.1.00.
- Fixed issue where PS/2 mouse is not functional when PS/2 keyboard is not connected.
- Added a new feature for System Wake from S5.

BIOS Version 0908

About This BIOS:

- April 04, 2006
- BX97510J.86A.0908.2006.0404.1739
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.6.2.1002
 - Silicon Image RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Fixed FDD test failure on certain floppy drives.
- Fixed issue where legacy floppy drive was not seen in Windows* if "Boot to Removable Devices" is set to "Disabled".
- Fixed issue where some CompactFlash-to-SATA cards were not accessible in DOS.
- Added feature to allow changing USB flash drive DOS emulation from BIOS SETUP.
- Fixed issue where USB 2.0 speed was not working under BIOS USB legacy support.
- Fixed issue where system may hang in DOS accessing USB flash drives.
- Prevent 'up arrow' key from entering Setup.
- Fixed the issue where Boot Menu will not display correctly after F9 Load Default under certain scenario.
- Fixed BIOS Setup arrows in date/time fields didn't move predictably.
- Added SMBIOS Type 9 Slot configuration information. This fixed LANDesk* reporting incorrect slot information.
- Always hide the HPET setup question.

BIOS Version 0807

About this BIOS:

- March 14, 2006
- BX97510J.86A.0807.2006.0314.1158
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.6.2.1002
 - Silicon Image* RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

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

- Added extended support for new CPUs.
- Enabled CPU Fan Control by default.

BIOS Version 0618

About this BIOS:

- February 24, 2006
- BX97510J.86A.0618.2006.0223.1728
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.6.2.1002
 - Silicon Image* RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Added workaround for issue where IDER CD-ROM device was intermittently being detected.
- Added Onboard LAN MAC Address display in BIOS Setup.
- Added Flex Language Module support.
- Added ability to display effective processor speeds when Front Side Bus Frequency is overridden.
- Added future CPU support.
- Fixed issue where CPU Speed display in BIOS Setup was incorrect with certain Processor/Multiplier combinations.
- Fixed issue where certain host adapter card was not functional.
- Fixed issue where Front Side Bus Overrides would cause power cycling after an AC Loss.
- Added code to force system into BIOS Setup if no boot device is found.
- Removed trailing spaces from present SMBIOS strings.
- Fixed yellow bang on PCI-PCI bridge on PCI Express cards.
- Fixed a problem where the password did not get cleared if the password length was set to zero.

BIOS Version 0442

About this BIOS:

- January 20, 2006
- BX97510J.86A.0442.2006.0120.1356
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.1.2.1002
 - Silicon Image* RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Fixed issue where fan settings were not being programmed correctly.
- Added support for duplicating SLP string to multiple locations with a single BIOS.
- Fixed issue where Intel® Viiv™ Technology badge was not properly displayed.
- Added Serial Port enable/disable setup question.
- Fixed issue where system would not wake from S4 via PCI/PCIe devices when ACPI Suspend State set to S1.
- Fix for Intel® Integrator Toolkit issue.

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

- Fixed issue where Default Modules were not getting loaded upon Iflash /md switch.
- Added Flex Language Module Support.
- Fixed issue where system could not enter sleep states after previously waking using a PCI Express device.
- Fixed issue where serial ports would stop functioning after call to INT14 Function 04 (Extended COM Port Initialize).

BIOS Version 0420

About this BIOS:

- January 5, 2006
- BX97510J.86A.0420.2006.0104.1502
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.1.2.1002
 - Silicon Image* RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Feature to enable USB bootable devices to boot the system first.
- New Intel Logos.
- Added HPET support.
- Fixed the problem where operating system could not get Wake up cause after resuming S4.
- Fixed issue where certain drives not detected in BIOS SETUP.
- Fixed a problem where PCIe devices behind the PCIe bridges off the ICH7 did not work if a PCI to PCI bridge was connected with a video card behind it.
- Fixed ITK workspace issue.
- Fixed illegal pop-up message box display in setup.
- Fixed Setup Browser would not refresh with F9 default Language.

BIOS Version 0354

About this BIOS:

- December 08, 2005
- BX97510J.86A.0354.2005.1208.1112
- SATA RAID info:
 - Intel(R) RAID for SATA - v5.1.2.1002
 - Silicon Image* RAID for SATA - v5.2.11
- Initializing Intel(R) Boot Agent GE v1.2.28

New Fixes/Features:

- Initial release.

LEGAL INFORMATION

Information in this document is provided in connection with Intel Products and for the purpose of supporting Intel developed server/desktop boards and systems.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to

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

fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel Corporation may have patents or pending patent applications, trademarks, copyrights, or other intellectual property rights that relate to the presented subject matter. The furnishing of documents and other materials and information does not provide any license, express or implied, by estoppel or otherwise, to any such patents, trademarks, copyrights, or other intellectual property rights. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel is a registered trademark of Intel Corporation.

Copyright (c) 2006 Intel Corporation.

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