



## BIOS Update Release Notes

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### PRODUCTS: D975XBX (Standard BIOS)

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#### BIOS Version 1479

##### About This BIOS:

- April 03, 2007
- BX97510J.86A.1479.2007.0403.1737
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.6.2.1002
  - Silicon Image RAID for SATA - v5.3.14
- Initializing Intel(R) Boot Agent GE v1.2.28
- Intel® Active Management Technology info:
  - Intel® AMT BX Firmware: v1.2.3

##### New Fixes/Features:

- Updated processor support.
- Workaround an issue that caused system not to boot Microsoft\* Windows\* Vista with 4GB memory.
- Fixed issue where system would hang booting Windows\* XP with OEM Activation 2.0 data programmed, EIST enabled, and certain processor installed in the system.

#### BIOS Version 1478

##### About This BIOS:

- February 22, 2007
- BX97510J.86A.1478.2007.0222.1002
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.6.2.1002
  - Silicon Image RAID for SATA - v5.3.14
- 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 SMBIOS Type 0 and Type 1 structure size failures in Windows\* Vista\* DTM SMBIOS HCT tests.
- Added support for Windows\* Vista\* Media Center OCUR Host Firmware Support.
- Fixed issue where host adapter cards were not functional.
- Fixed issue where system hangs when trying to load bootable CD from a USB CD drive.
- Fixed Legacy Floppy and USB Flash Drive not accessible from DOS.
- Changed VT default to disabled.
- Modified Express BIOS Update for Windows Vista\* issue.

#### BIOS Version 1476

**About This BIOS:**

- January 19, 2007
- BX97510J.86A.1476.2007.0119.1334
- SATA RAID info:
  - Intel(R) RAID for SATA - v5.6.2.1002
  - Silicon Image RAID for SATA - v5.3.14
- Initializing Intel(R) Boot Agent GE v1.2.28
- Intel® Active Management Technology info:
  - Intel® AMT BX Firmware: v1.2.3

**New Fixes/Features:**

- Updated Silicon Image\* 3114 SATA Controller Option ROM to Version 5.3.14.

<b>BIOS Version 1474</b>
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**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.

<b>BIOS Version 1463</b>
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**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.

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

## BIOS Version 1441

### About This BIOS:

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

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- Initializing Intel(R) Boot Agent GE v1.2.28

**New Fixes/Features:**

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

<b>BIOS Version 1334</b>
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**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.

<b>BIOS Version 1304</b>
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**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.

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- 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%.
- 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.

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- 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.
- 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:

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

<b>BIOS Version 0618</b>
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**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.

<b>BIOS Version 0442</b>
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**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.

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- 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.
- 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.

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