PRODUCTS: D946GZAB (Standard BIOS)

BIOS Version 0180

About This Release:
- September 23, 2007
- AB94610J.86A.0180.2007.0923.1956
- VBIOS info:
  Build Number: 1518 PC 14.27 07/06/2007 17:11:20
- PXE info:
  Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Updated Video BIOS Build Number: 1518 PC 14.27 07/06/2007 17:11:20.
- Workaround on DVMT GraphicsDriverMemorySize Option value to fulfill IIA requirement.

BIOS Version 0178

About This Release:
- September 03, 2007
- AB94610J.86A.0178.2007.0903.1949
- VBIOS info: Build Number: 1377 PC 14.18 09/25/2006 08:09:45
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Fixed issue where ITK or IIA could not access Boot Priority List when all the boot devices disabled in the BIOS Setup.
- Fixed Audio Code subsystem ID problem after resuming S3.
- Fixed issue where CPU fan runs in full speed.
- Implemented changes to support the ITK Map File Specification version 1.15.
- Fixed issue where flashing a large BMP Logo caused inability to reflash and possibly not boot.
- Added support for writing a new variable through .bio capsule.
- Added ITK Data Var Type 3 to store VAREQ variable.
- Fixed issue where IIA or ITK could not set boot order correctly.
- Fixed issue where ITK/IIA could not set Boot Order if the Boot Menu Type in the BIOS Setup was set to Advance.
- Fixed issue where ITK or IIA could not read boot drives' model strings.
- Added support for reporting capsule invocation results.
- Fixed an intermittent failure seen with EFI_VARIABLE in Windows* environment.
- Fixed issue where setup control keys (i.e. ESC, TAB, Arrows, F9, F10, etc) does not perform as expected.
- Fixed issue where setup option selection failure.
- Fixed incorrect or corrupt display issues (non-Language).

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

- Fixed issue of OPTION ROM not displayed during POST when expected.
- Fixed issue of SMBIOS System Slot structures mismatch installed hardware.
- Fixed issue of USB keyboard doesn't work correctly with USB Legacy disabled.

BIOS Version 0175

About This Release:
- August 7, 2007
- AB94610J.86A.0175.2007.0807.2328
- VBIOS info: Build Number: 1377 PC 14.18 09/25/2006 08:09:45
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Updated processor support.

BIOS Version 0171

About This Release:
- May 28, 2007
- AB94610J.86A.0171.2007.0528.0105
- VBIOS info: Build Number: 1377 PC 14.18 09/25/2006 08:09:45
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Fixed a problem where Setup F9 key caused unexpected page movement at submenu option.
- Fixed F10 boot menu showing two lines of duplicated title.
- Fixed a problem where the CMP enable/disable item doesn't work.
- Fixed issue where 200G SATAII HDD sometimes reports only 133G.
- Fixed issue where IPAT hard disk protection will be disabled.

BIOS Version 0169

About This Release:
- April 24, 2007
- AB94610J.86A.0169.2007.0423.1931
- VBIOS info: Build Number: 1377 PC 14.18 09/25/2006 08:09:45
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Updated processor support.
- Removed previous fix for 200G SATAII HDD capacity issue since it may cause a POST problem with CD-ROM drives.

BIOS Version 0167

About This Release:
- April 10, 2007
- AB94610J.86A.0167.2007.0409.1918
- VBIOS info: Build Number: 1377 PC 14.18 09/25/2006 08:09:45
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Fixed issue where 200G SATAII HDD sometimes reports only 133G.

BIOS Version 0166

About This Release:
- April 03, 2007
- AB94610J.86A.0166.2007.0403.1927
- VBIOS info: Build Number: 1377 PC 14.18 09/25/2006 08:09:45
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Updated processor support.
- 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.
- Used fv file to integrate Intel® Platform Administrator Agent into BIOS.

BIOS Version 0148

About This Release:
- March 02, 2007
- AB94610J.86A.0148.2007.0302.1225
- VBIOS info: Build Number: 1371 PC 14.18 08/11/2006 17:22:22
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Updated processor support.
- Added programming of PCI Subsystem Vendor ID and Subsystem ID for the PCIe Graphics bridge.
- Added support for Windows Vista* Media Center OCCUR Host Firmware Support.
- Modified ACPI OSER support so that the Microsoft* Reference Block is now an optional parameter.
- Added support for ITK Map File Specification version 1.15.
- Modified Express BIOS Update for Windows Vista* issue.
- Fixed CPU fan running at MAX speed when certain processor installed.
- Integrated official fix for system crash issue in case the memory is frequently allocated and freed.

BIOS Version 0145

About This Release:
- February 06, 2007
- AB94610J.86A.0145.2007.0205.2351
- VBIOS info: Build Number: 1371 PC 14.18 08/11/2006 17:22:22
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Fixed issue where disk partitions are sometimes not seen during operating system installation.
- IRQ Fix for USB Interrupts.

- Fixed issue where system would not recognize CTRL+ALT+DEL key sequence from boot cycling machine.
- Fixed failures with the TCG ACPI Event Log when running the Vista* DTM TCG TPM BIOS Interface Test.
- Fixed issue where system hangs when trying to load bootable CD from a USB CD drive.
- Fixed display of cache for multi-core processors.
- Fixed HPET failures when running the Vista DTM testing.
- Fixed S3 resume issue when certain graphics card installed.
- Opened interface to report the MAAgent base address to IPAT.

BIOS Version 0142

About This Release:
- January 11, 2007
- AB94610J.86A.0142.2007.0110.2031
- VBIOS info: Build Number: 1371 PC 14.18 08/11/2006 17:22:22
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Added blocking and warning message display for certain unsupported processors.
- Fixed ACPI failures when running the Vista* DTM TCG TPM Integration Test (TPMSYSINT.EXE).
- Fixed failures with the TCG ACPI Event Log when running the Vista DTM TCG TPM
- Fixed SMBIOS Type 0 and Type 1 structure size failures in Vista DTM SMBIOS HCT tests (SMBIOSHCT.EXE).
- Fixed system crash issue in case the memory is frequently allocated and freed.
- Added fix for Vista where EBIOSPost.exe had error while returning EBU status.

BIOS Version 0140

About This Release:
- December 14, 2006
- AB94610J.86A.0140.2006.1213.2204
- VBIOS info: Build Number: 1371 PC 14.18 08/11/2006 17:22:22
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Integrated latest Intel® Platform Administrator Agent 3.0.0.291.
- Removed Global Reset from MRC code.
- Set the VT default to disabled.

BIOS Version 0139

About This Release:
- November 10, 2006
- AB94610J.86A.0139.2006.1112.2140
- VBIOS info: Build Number: 1371 PC 14.18 08/11/2006 17:22:22
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:

- Updated processor support.
- Supports OEM Activation 2.0. For details on the OEM Activation Program, send email to oasignh@microsoft.com
- Moved USB2.0 Enable option to maintenance screen.
- Removed redundant SDRAM qualifier string in Setup in memory configuration screen.
- Fixed SMBIOS HCT failure where Type 0 "Enable Targeted Content Distribution" bit not set.
- Added support for Heceta6P.
- Hide the V1.5 in Hardware Monitoring page.
- Setup Date option change day to 01 if the current day is invalid for the selected month or year.

BIOS Version 0125

About This Release:
- September 18, 2006
- AB94610J.86A.0125.2006.0918.0659
- VBIOS info: Build Number: 1371 PC 14.18 08/11/2006 17:22:22
- PXE info: Intel(R) Boot Agent FE v4.1.17

New Fixes/Features:
- Initial production BIOS release