



## BIOS Update Release Notes

### PRODUCTS: DQ35JO, DQ35MP (Standard BIOS)

#### BIOS Version 1126 - JOQ3510J.86A.1126.2009.1124.2311

##### About This Release:

- November 24, 2009
- ME Firmware: ME FW binary PV build iAMT\_ASF2\_QST\_3.2.1.1022.
- Integrated Graphics Option ROM: 1653 PC 14.34 06/08/2008 20:37:36.
- PXE Nahum2 info: Intel(R) Boot Agent GE v1.3.27
- SATA RAID Option ROM: Intel(R) RAID for SATA - v8.9.0.1023

##### New Fixes/Features:

- Added Security Phase 2 fixes.

#### BIOS Version 1122 - JOQ3510J.86A.1122.2009.1027.2020

##### About This Release:

- October 27, 2009
- ME Firmware: ME FW binary PV build iAMT\_ASF2\_QST\_3.2.1.1022.
- Integrated Graphics Option ROM: 1653 PC 14.34 06/08/2008 20:37:36.
- PXE Nahum2 info: Intel(R) Boot Agent GE v1.3.27
- SATA RAID Option ROM: Intel(R) RAID for SATA - v8.9.0.1023

##### New Fixes/Features:

- Added F7 Flash update support.
- Fixed issue where beep code was incorrect when booting without memory.
- Added check to only display logo that is less than or equal to the supported resolution of 1024x768.
- Added option to enable/disable Core Multiplexing when using a Q9550 processor.
- Added work around for issue where RAID volume is lost after updating BIOS.
- Fixed JO setup compliance test.

#### BIOS Version 1109

##### About This Release:

- July 16, 2009
- JOQ3510J.86A.1109.2009.0716.0319
- ME Firmware: ME FW binary PV build iAMT\_ASF2\_QST\_3.2.1.1022.
- Integrated Graphics Option ROM: 1653 PC 14.34 06/08/2008 20:37:36.
- PXE Nahum2 info: Intel(R) Boot Agent GE v1.3.27
- SATA RAID Option ROM: Intel(R) RAID for SATA - v8.9.0.1023

##### New Fixes/Features:

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

- Fix issue with overlapped memory ranges.
- Added CPU SMRR support.
- Updated SMBIOS Processor Family.
- Fix issue where MTRR is not in sync after S3 resume.
- Added Half Ratio support for Half Ratio capable processors.
- Implemented Fault Tolerant Firmware ID solution.
- Added check for Supervisor/User password before allowing update.
- Added the Downgrade password security check.
- Added the \$FID check to find the BIOS ID.
- Updated AMT: Enterprise Provision record: Cert. Serial Num. mismatch.
- Added handler for AP exception
- Fix potential intermittent S3 failure
- Implemented new SMRR feature according to the new BWG.
- Added support in boot block to read EFI variables from VPD backup region if the system had reset in the middle of VPD reclaim.
- Add memory speed override value to Setup Main page.
- Fixed issue with TXT S3 Resume causing txt error code.
- Split the BuildVariables files into TimeStamp and BuildVariables.
- Fixed issue where SMBIOS Type 10 (On Board Devices Information) structure for On-board LAN "Description" field is incorrect when On-board LAN is disabled.
- Fixed issue with READY2BOOT SMI callback calling out of SMRAM.
- Fixed SMBIOS issues seen with the WLK 1.3 SMBIOS HCT test.
- Updated support for high power PCIe adapters.
- Updated RAID option ROM: Intel(R) RAID for SATA - v8.9.0.1023
- Fixed SMBIOS issues seen with the WLK 1.4 SMBIOS HCT test.
- Updated PXE UNDI for Intel(R) 82566 Gigabit LAN to version 1.3.27.
- Added SMM security patch.

<b>BIOS Version 1056</b>
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**About This Release:**

- April 28, 2009
- JOQ3510J.86A.1056.2009.0427.2004
- VBIOS info:  
Build Number: 1653 PC 14.34 06/08/2008 20:37:36.
- SATA RAID info:  
Intel(R) RAID for SATA - v8.6.0.1007
- SATA AHCI info:  
Version UPSD src 05-09-2008 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.3.22.
- ME firmware build:  
ME FW binary PV build iAMT\_ASF2\_QST\_3.2.1.1022.

**New Fixes/Features:**

- Fixed issue where system does not restore DPR register on resume.
- Added security for SMM.
- Fixed issue for TXT S3 Resume causing txt error code.
- VTD requirement Zero memory used for IGD GTT.
- Added Txt S-Clean S-check fix for SMRR.
- Fixed issues where certain controllers do not work.

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- Added CPU SMRR feature support.
- Fixed READY2BOOT SMI callback calling out of SMRAM.
- Fixed invalid event "Memory Size Decrease" and "Intel ME Interface Initialization failed" logged after BIOS update with Express BIOS Update, iFlash reboot method and BIOS recovery method.

#### BIOS Version 1016

##### About This Release:

- January 22, 2009
- JOQ3510J.86A.1016.2009.0122.0019
- VBIOS info:  
Build Number: 1653 PC 14.34 06/08/2008 20:37:36.
- SATA RAID info:  
Intel(R) RAID for SATA - v8.6.0.1007
- SATA AHCI info:  
Version UPSD src 05-09-2008 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.3.22.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.2.1.1022.

##### New Fixes/Features:

- Add a workaround to fix an issue of not detecting HDD after booting to WinPE using PXE.
- Fixed potential failures on S3 resume due to bad algorithm for clock chip programming.
- Fixed WOL from S5 feature not working.

#### BIOS Version 0991

##### About This Release:

- January 9, 2009
- JOQ3510J.86A.0991.2009.0108.1847
- VBIOS info:  
Build Number: 1653 PC 14.34 06/08/2008 20:37:36.
- SATA RAID info:  
Intel(R) RAID for SATA - v8.6.0.1007
- SATA AHCI info:  
Version UPSD src 05-09-2008 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.3.22.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.2.1.1022.

##### New Fixes/Features:

- Added support in boot block to read EFI variables from VPD backup region if the system had reset in the middle of VPD reclaim.
- Fixed system not restore of DPR register on resume.
- Changed 'Intel(R) EM64T Capable' to 'INTEL 64 ARCHITECTURE CAPABLE'.
- Fixed system hang at POST code 5Ah when attached with certain optical drives or during AMT-IDER.
- Added SMBIOS Processor Family update.
- Fixed highest supported PCI bus number chipset/ACPI mismatch.
- Added support for Page Up/Page Down key for scrolling options in Setup popup windows.
- Fixed issue where Setup Page Title remains unchanged when switching to foreign language

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- Fixed a potential system hang issue due to infinite loop in the variable function.
- Added feature to generate dynamic DMAR table entries.
- Updated TXT Heap table CPU count information.
- Fixed AMT PET message "DISK OR DISK BAY - UNKNOWN SENSOR TYPE #30" not populated when there is no bootable device.
- Fixed issue where Intel Badge doesn't show after logo is updated by Intel® Integrator Toolkit.
- Fixed issue where EFI boot images are not seen on IDE CD/DVD devices.
- Fixed a potential VPD corruption issue
- Added check for BIOS ID during BIOS recovery.
- Fixed issue where the boot order is not synchronized in Intel® Integrator Assistant (IIA) with F2 setup when boot devices are disabled in Normal mode and re-enabled in Advance mode.
- Fixed issue where boot order was not synchronized in IIA when boot order is hidden.
- Updated RAID option ROM: Intel(R) RAID for SATA - v8.6.0.1007
- Fixed an issue where an error would occur when running Express BIOS Update (EBU) after running iflashwin.
- Fixed EBU to allow custom BIOS to be loaded over standard BIOS
- Fixed EBU generated internal error.
- Fixed issue where post installer did not delete FlexEng.dll from temporary folder.
- Fixed issue where system shows no bootable device message when remove UEFI Vista HD.
- Fixed IA32\_FEATURE\_CONTROL\_MSR bit 0 not being set during S3 resume.

#### BIOS Version 0954

##### About This Release:

- September 23, 2008
- JOQ3510J.86A.0954.2008.0922.2331
- VBIOS info:  
Build Number: 1653 PC 14.34 06/08/2008 20:37:36.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 05-09-2008 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.3.22.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.2.1.1022.

##### New Fixes/Features:

- Added feature to allow USB keyboard to be available for entering BIOS setup even if USB ports are set to disabled.
- Added support to allow system boot to PXE when wake on LAN from S5.
- Fixed issue where USB drives were not bootable after using USBoot\* tool.

#### BIOS Version 0942

##### About This Release:

- August 11, 2008
- JOQ3510J.86A.0942.2008.0807.1958

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

- VBIOS info:  
Build Number: 1653 PC 14.34 06/08/2008 20:37:36.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 05-09-2008 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.3.22.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.2.1.1022.

**New Fixes/Features:**

- Locked MCH configuration.
- Added support to DQ35J0 for ME Power Package 2 and 4 (Only take effect after doing BIOS Recovery).
- Fixed keyboard permanently locked in BIOS Setup after using AMT SOL session.
- Updated Intel Branding String in BIOS Setup.
- Fixed issue where keys pressed in POST are visible after boot in the BIOS Data Area (BDA) keyboard buffer.
- Fixed Incorrect Memory Size Decrease report.
- Updated PXE code Intel(R) Boot Agent GE v1.3.22.
- Updated Video BIOS v1653.

<b>BIOS Version 0933</b>
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**About This Release:**

- July 09, 2008
- JOQ3510J.86A.0933.2008.0707.2248
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 05-09-2008 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.2.1.1022.

**New Fixes/Features:**

- Fixed issue where system takes extra 40 seconds to boot when certain webcam is attached to the system.
- Corrected the RAID option ROM to v7.6.0.1011.
- Updated IRRT RAID option ROM to v8.0.0.1039.
- Updated processor support.
- Fixed issue where hardware virtualization is not available after S3 resume.
- Added ability to disable C1E for DQ35J0 from the Power page.
- Fixed issue where certain solid state drives were not working with the ICH SATA AHCI Option ROM.
- ICH9 BIOS Specification Update 1.14.
- CPU Power savings for S1 state.

<b>BIOS Version 0925</b>
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**About This Release:**

- June 17, 2008

- JOQ3510J.86A.0925.2008.0617.0044
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 12-03-2007 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.2.1.1022.

**New Fixes/Features:**

- Updated flash descriptor base on ICH SPI Flash Programming Guide.
- Updated Intel(R) ME Firmware to 3.2.1.1022.
- Fixed system hang when user browse to a BIOS setup page that has all text hidden by Intel® Integrator Toolkit.
- Added black and white background badges for support resolutions of 640x480, 800x600 and 1024x768.
- Changed BIOS setup string "VT Technology" to "Intel(R) VT" under Security Menu.
- Added ability for ITK to choose between black or white badge background and the reporting of max logo resolution support.
- Fixed Audio Codec SSID not being programmed after resume from S3.
- Added SMBios Type 9 Slot Information fixes.

<b>BIOS Version 0882</b>
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**About This Release:**

- April 24, 2008
- JOQ3510J.86A.0882.2008.0423.1925
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 12-03-2007 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.2.0.1018.

**New Fixes/Features:**

- Fixed a problem where USB devices were not detected during POST.
- Work around to prevent USB keyboard hang in DOS environment.
- AMT: Fixed local hard drive is inaccessible during IDER DOS session when SATA is configured as AHCI/RAID.
- Updated Audio Verb Table.
- Workaround to fix system won't boot intermittently when optical drive is connected to SATA port 2.
- Added new AA number for LA SKU.

<b>BIOS Version 0865</b>
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**About This Release:**

- April 04, 2008
- JOQ3510J.86A.0865.2008.0404.0146
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.

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

- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 12-03-2007 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.2.0.1018.

**New Fixes/Features:**

- Fixed Windows Vista\* 0xC4 blue screen when running Driver Verifier on TPM.SYS.
- Fixed issue where new BIOS SETUP settings may contain random data when using Flex EFI Variable updates.
- Added support for duplicate BIOS ID.
- Updated the graphics for Express BIOS Update.
- Fixed issue where the flash could be potentially corrupted.
- Added support in the flash update process to update unlocked flash descriptor region.
- Workaround to resolve S3 Resume took longer than 2 seconds issue.
- Fixed issue where certain SAS HBA card was not booting.
- Fixed issue where the upper portion of the EAX and EDX register were getting corrupted during INT9 (keyboard handler) execution on no-SIO systems.
- Fixed incorrect restore of PIC mask register.
- Fixed the title of the BIOS setup page get overlap by certain condition.
- Fixed BIOS Setup interface to allow pop-up menu to scroll through options.
- Fixed a problem where the system would boot slow with 8GB of memory in the system, and booting to a 64bit OS.
- Long boot time due to no media in SATA optical drive when set to AHCI/RAID mode.
- Fixed Eit and VA3.0 storage of TPM enable disable status.
- Change VT-d Tables for Txt.
- Fix for TXT Bios\_OS\_Data reporting.
- Updated Txt Ac modules.
- Fixed RAID Fail to Resume from Standby (S3).
- Optimized performance of ATAPI recovery routines.
- Allow use of more than one CD device for ATAPI CD-ROM recovery.
- Fixed issue where graphics cards that don't support 800x600 mode will not display anything on screen during POST.
- Fixed issue where L2 cache size of Q9300 CPU will not be displayed in BIOS setup.
- Fixed a problem where IERR got asserted on certain CPUs.
- Fixed possible hang at POST code 0x5A with certain video cards attached to the system.
- Added support to select the appropriate voltage based on CPU and FSB speed.
- Fix issue where unlock CPU with PSID enabled cannot be over clocked.
- Fixed a problem where the system would hang on S3 resume during SMM relocation.
- Fix S3 Hang at Post Code 21 due to dependency issue.
- Added support for WDC8763 EC/SIO controller.
- Updated processor support.
- Updated Intel(R) ME Firmware.

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- Fixed local hard drive is inaccessible during IDER DOS session when SATA is configured as AHCI/RAID.
- Change Smbios Typel31 ICH Record.
- Update TXT Heap BIOS\_OS\_DATA.
- TXT Fix for hang following a LT.Reset.
- TXT Fix for GetSec SCHECK.
- Fixed EIT/VA process data overwriting interrupt vector table.

**Known Errata:**

If you previously set a hard drive password with BIOS version 0817, 0831 or 0834, you must clear the password before updating to BIOS version 0865 or later.

<b>BIOS Version 0757</b>
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**About This Release:**

- January 30, 2008
- JOQ3510J.86A.0757.2008.0120.2100
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 12-03-2007 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.8.1132.

**New Fixes/Features:**

- Updated processor support.
- Updated Intel(R) ME Firmware to 3.0.8.1132.
- Fixed the IIA Boot Order missing issue.
- Added Intel Rapid Recovery Technology feature.
- Added workaround of option ROM which has an invalid PCI Expansion ROM Header.
- Fixed issue where VGA is not found behind a bridge.
- Fixed a potential Stall loop overflow issue.
- Hid AHCI option ROM text when not running in RAID mode.
- Fixed issues in Manage Certificates ME setup page.
- Fixed failing TCG TPM Interface Test with Microsoft Vista\* Windows Logo Kit (WLK) 1.1.
- Fixed language switching and 'Exit discarding Changes' issues that could slow down the responsiveness of BIOS setup pages.
- Removed pre-production ME Firmware from BIOS update capsule.

<b>BIOS Version 0745</b>
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**About This Release:**

- January 03, 2008
- JOQ3510J.86A.0745.2008.0102.1942
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 08-24-2007 for ICH9
- PXE Nahum2 info:

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

Intel(R) Boot Agent GE v1.2.50.

- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.1.1104.

**New Fixes/Features:**

- Worked around USB Legacy related hangs during POST.

**BIOS Version 0733**

**About This Release:**

- December 19, 2007
- JOQ3510J.86A.0733.2007.1218.2239
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 08-24-2007 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.1.1104.

**New Fixes/Features:**

- Workaround to resolve system halt during POST when user attempts to boot to network by pressing F12 key.

**BIOS Version 0731**

**About This Release:**

- December 10, 2007
- JOQ3510J.86A.0731.2007.1210.2204
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 08-24-2007 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.1.1104.

**New Fixes/Features:**

- Updated Chassis Type SMBIOS structure.
- Fixed for blank entries in the boot order list when boot devices were enabled/disabled in F2 setup

**BIOS Version 0717**

**About This Release:**

- November 21, 2007
- JOQ3510J.86A.0717.2007.1120.1842
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 04-20-2007 for ICH9
- PXE Nahum2 info:

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

Intel(R) Boot Agent GE v1.2.50.

- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.1.1104.

**New Fixes/Features:**

- Updated processor support.
- Fixed time-out failures with Extended INT13 Seek Function (INT 13 Function 47).
- Added support for SATA AHCI Hot-Plug from the Intel Matrix Storage Manager driver.
- Fan detection improvement for iQST.
- Fixed pressing the power button for more than 4 sec does not power off the PC.
- Fixed F9 load default changed Wake on Lan from S5 option while it is grayed out.
- Fixed BIOS recovery from PATA CD does not work.
- Added supervisor password check for chassis intrusion event.

**BIOS Version 0708**

**About This Release:**

- November 02, 2007
- JOQ3510J.86A.0708.2007.1102.0118
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 04-20-2007 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.1.1104.

**New Fixes/Features:**

- Fixed the PATA device showing under SATA ports in BIOS setup if SATA device not installed.

**BIOS Version 0704**

**About This Release:**

- October 24, 2007
- JOQ3510J.86A.0704.2007.1023.2031
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 04-20-2007 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.1.1104.

**New Fixes/Features:**

- Added Manufacturing Mode detection via Software.
- Fixed hard drive detection after cold reboot in AHCI mode.
- Workaround on DVMT GraphicsDriverMemorySize Option value to fulfill IIA requirement.
- Updated AMT 3.0 SMBIOS Type 131 variable as per specs specify.

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

- ME FW: fixed the issue where the ME FW revision info in setup only shows the first digit of the Hotfix version value.
- Fixed issue where Quad core CPU not able to run in single processor mode.
- CK505: Added support for 400MHz FSB CPU overclocking on clock chip SLG505YC256 and SLG505YC264.
- Fixed POST code 5Ah hang with SATA HDDs and PCI Graphics card in Slot 2.
- Added fix so that enable/disable boot device while boot menu is locked does not cause the loss of boot devices in IIA.
- Modified AMT3.0 Type 130 SMBIOS structure.
- Fixed issue where certain USB hard drives did not work in USB legacy support.
- Fixed ForceOnBoardLan Disable option not functioning.
- Boot time optimization.
- AMT: Fixed BIOS ME Setup page password does not get synchronized after Remote Configuration provisioned the system.

### BIOS Version 0696

#### About This Release:

- October 02, 2007
- JOQ3510J.86A.0696.2007.1001.2029
- VBIOS info:  
Build Number: 1533 PC 14.27 08/28/2007 09:51:53.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 04-20-2007 for ICH9
- PXE Nahum2 info:  
Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.1.1104.

#### New Fixes/Features:

- Fixed WOL from G3 feature not working.
- Updated TXT AC Module version to Rev: 20070910. (Must only be run with SINIT 20070910 or later.)
- Fixed issue where BIOS would not build in IA32 bit mode.
- Updated Q35/Q33/G33/P35/X38 Bios Spec Rev2.2.
- ME FW: Fixed the issue where the ME FW revision info in setup only shows the first digit of the Hotfix version value.
- Corrected the TCG ACPI table header length according to the TCG ACPI spec 1.0.
- Updated Video Bios to Build 1533.

### BIOS Version 0693

#### About This Release:

- September 20, 2007
- JOQ3510J.86A.0693.2007.0919.2156
- VBIOS info:  
Build Number: 1508 PC 14.27 06/08/2007 13:40:32.
- SATA RAID info:  
Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info:  
Version UPSD src 04-20-2007 for ICH9
- PXE Nahum2 info:

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Intel(R) Boot Agent GE v1.2.50.

- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.1.1104.

**New Fixes/Features:**

- Filled in missing language strings.
- AMT 3.0: Sync up to MEBx Version 3.0.2.0004.
- AMT: Increased FQDN and PKI DNS Suffix input box maximum string length.
- Fixed issue where CMOS battery removed could cause AMT option to be missing.
- Added new Video rom: Build Number: 1508 PC 14.27 06/08/2007 13:40:32
- SMBIOS Type 9 Slot Information fixes.
- Added half ratio support.
- AMT 3.0: Fixed AMT WebUI report multiple keyboard test.
- Changed the method of getting ME FW capability through MEBx instead of hardcoded.
- SMBios Type 130: Fix the AMT mode detection issue.
- Modified AMT3.0 Type 130 SMBIOS structure.
- Fixed issue where PMM calls would sometimes fail incorrectly.
- iQST: Fixed issue show error message when user install invalid payloads through ITK.
- Excluded the ME related error event for non-ME platform.
- AMT platform: Moved the LAN enable check function before entering the setup.
- Added BIOS workaround to allow Windows\* XP restart to function correctly.
- Workaround on DVMT GraphicsDriverMemorySize Option value to fulfill IIA requirement.

<b>BIOS Version 0677</b>
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**About This Release:**

- August 31, 2007
- JOQ3510J.86A.0677.2007.0831.0433
- VBIOS info: Build Number: 1471 PC 14.27 03/23/2007 16:54:14.
- SATA RAID info: Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info: Version UPSD src 04-20-2007 for ICH9
- PXE Nahum2 info: Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.1.1104.

**New Fixes/Features:**

- ICH9: Added recommended BIOS spec update 1.1 changes.
- Added support for booting El-Torito HDD emulation Memtest86+ with AHCI Option ROM.
- Fixed issue where ITK or IIA could not read boot drives' model strings.
- Changed ACPI SPCR table to only be present when a remote AMT SOL request is made.
- Fixed issue where ITK or IIA could not access Boot Priority List when all the boot devices disabled in the BIOS setup.
- Removed fix where the BIOS was potentially using all processor variable MTRRs.
- AMT: Fixed setup domain name does not get saved in DHCP mode.

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

## BIOS Version 0669

### About This Release:

- August 22, 2007
- JOQ3510J.86A.0669.2007.0821.2354
- VBIOS info: Build Number: 1471 PC 14.27 03/23/2007 16:54:14.
- SATA RAID info: Intel(R) RAID for SATA - v7.6.0.1011
- SATA AHCI info: Version UPSD src 04-20-2007 for ICH9
- PXE Nahum2 info: Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.1.1104.

### New Fixes/Features:

- Fixed issue where ITK/IIA could not set Boot Order if the Boot Menu Type in the BIOS setup was set to Advance.
- Fixed potential issue with the Windows\* Logo Kit 1.0c TPM ACPI Physical Presence Interface (TPMPPI.EXE) test.
- Raid OPTION ROM: Intel(R) RAID for SATA - v7.6.0.1011.
- Fixed Floppy Drive option missing in boot priority list on legacy free board.
- Fixed VA option not grayed out after supervisor password set.
- Updated CK505 clock chip driver to make it robust for multiple platforms.
- Fixed AMT page option not grayed out after supervisor password set.
- Fixed issue where certain USB bar code scanners would drop a single character if used under USB Legacy.
- Fixed slow recovery which takes 60-120 seconds.
- Added to support eSata on port3.
- Fixed issue where all the information (include ME version) in "Additional System Information" page is lost, after the language is changed.
- Fixed system hang while language is not selected after language list message pop-out.
- Changed displayed SOL copyright to 2007.
- Added PSID support.
- Lock SPI flash descriptor for production BIOS.
- Flashing a large BMP Logo caused inability to reflash and possibly not boot.
- Added ITK Data Var Type 3 to store VAREQ variable.
- Fixed issue where the BIOS was potentially using all processor variable MTRRs.
- Workaround an intermittent failure seen with EFI\_VARIABLE in Windows\* environment.
- Fixed for initializing OemDefault variable to proper size.
- Fixed "Validate the Consistency of the TCPA EventLog" failure with Windows\* Logo Kit 1.0c TPM BIOS Interface Logo Test.
- CK505: Switch SATA PLL to PLL2, only when Burn In mode is supported and enabled.
- Added support for writing a new variable through .bio capsule.

## BIOS Version 0559

### About This Release:

- July 26, 2007
- JOQ3510J.86A.0559.2007.0726.0425
- VBIOS info: Build Number: 1471 PC 14.27 03/23/2007 16:54:14.

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

- SATA RAID info: Intel(R) RAID for SATA - v7.5.0.1017
- SATA AHCI info: Version UPSD src 04-20-2007 for ICH9
- PXE Nahum2 info: Intel(R) Boot Agent GE v1.2.50.
- ME firmware build: ME FW binary PV build iAMT\_ASF2\_QST\_3.0.1.1104.

**New Fixes/Features:**

- Initial production BIOS release

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