



## BIOS Update Release Notes

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

#### BIOS Version 0882

##### 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.

#### BIOS Version 0865

##### 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.
- 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.

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

- 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.
- 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>
--------------------------

**About This Release:**

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

- 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>
--------------------------

**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:  
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.

<b>BIOS Version 0733</b>
--------------------------

**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

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

- 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.

<b>BIOS Version 0731</b>
--------------------------

**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

<b>BIOS Version 0717</b>
--------------------------

**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:  
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.

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

- 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.
- 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.

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

- 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:  
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.

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

- 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>
--------------------------

**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.

<b>BIOS Version 0669</b>
--------------------------

**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.

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

- 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 TPCA 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.

<b>BIOS Version 0559</b>
--------------------------

**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.
- 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

---



---

**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.**

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

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 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.