



BIOS Update Release Notes

PRODUCTS: DQ77MK, DQ77CP (Standard BIOS)

BIOS Version 0074 - MKQ7710H.86A.0074.2018.1025
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About This Release:

- Date: October 25, 2018
- ME Firmware: 8.1.71.3608
- Memory Reference Code: Based on 1.7.0.00
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14
- UEFI revision: 2.3.1

New Fixes/Features:

- Updated CPU Microcode (Security Advisory-00115).

BIOS Version 0073 - MKQ7710H.86A.0073.2018.0329
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About This Release:

- Date: March 29, 2018
- ME Firmware: 8.1.71.3608
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14
- UEFI revision: 2.3.1

New Fixes/Features:

- Updated CPU Microcode (Security Advisory-00088).

BIOS Version 0072 - MKQ7710H.86A.0072.2017.0519.1443

About This Release:

- Date: May 19, 2017
- ROM Image 8MB Checksum: 0x5F64D43D
- ROM Image 4MB Checksum: 0x271AA1E0
- ME Firmware: 8.1.71.3608
- Memory Reference Code: Based on 1.7.0.00
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091

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- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14
- UEFI revision: 2.3.1

New Fixes/Features:

- Updated Intel® ME firmware to version 8.1.71.3608.

BIOS Version 0071 - MKQ7710H.86A.0071.2015.0728.1443

About This Release:

- Date: June 26, 2015
- ROM Image 8MB Checksum: 0x5DEAC6DC
- ROM Image 4MB Checksum: 0x2719FB88
- ME Firmware: 8.1.20.1336
- Memory Reference Code: Based on 1.7.0.00
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14
- UEFI revision: 2.3.1

New Fixes/Features:

- Implemented security enhancement solution.

BIOS Version 0070 - MKQ7710H.86A.0070.2015.0626.1554

About This Release:

- Date: June 26, 2015
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14
- UEFI revision: 2.3.1

New Fixes/Features:

- Fixed issue where USB is not available after loading Windows 7*.

BIOS Version 0069 - MKQ7710H.86A.0069.2015.0401.2109

About This Release:

- Date: April 1, 2015
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14

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- UEFI revision: 2.3.1

New Fixes/Features:

- Fixed issue with clearing TPM passwords.

BIOS Version 0068 - MKQ7710H.86A.0068.2014.1201.1532

About This Release:

- Date: December 1, 2014
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14
- UEFI revision: 2.3.1

New Fixes/Features:

- Fixed issue where an "Unsuccessful boot" error message appears after AC power loss.

BIOS Version 0067 - MKQ7710H.86A.0067.2014.0703.1149

About This Release:

- Date: July 3, 2014
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14
- UEFI revision: 2.3.1

New Fixes/Features:

- Added feature to disable watchdog timer if an incorrect password has been entered three times.
- Added feature to disable watchdog timer when pressing Power Button to shutdown.

BIOS Version 0066 - MKQ7710H.86A.0066.2014.0523.1409

About This Release:

- Date: May 23, 2014
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14
- UEFI revision: 2.3.1

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New Fixes/Features:

- Enhanced the protection of certain UEFI variables as described in Intel Security Advisory INTEL-SA-00038.

BIOS Version 0065 - MKQ7710H.86A.0065.2014.0318.1044

About This Release:

- Date: March 18, 2014
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14
- UEFI revision: 2.3.1

New Fixes/Features:

- Added the function which changed recurrence setting for BIOS RTC wake up.
- Added ME firmware update delay time of 50 ms.

BIOS Version 0064 - MKQ7710H.86A.0064.2013.1003.1058

About This Release:

- Date: October 3, 2013
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14

New Fixes/Features:

- Fixed issue where booting to a drive from within Visual BIOS does not work.

BIOS Version 0062 - MKQ7710H.86A.0062.2013.0902.1328

About This Release:

- Date: September 2, 2013
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14

New Fixes/Features:

- Fixed issue where BIOS password prompt is not displayed when two monitors are connected with DVI and VGA.

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BIOS Version 0061 - MKQ7710H.86A.0061.2013.0820.1035

About This Release:

- Date: August 20, 2013
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14

New Fixes/Features:

- Fixed issue where RAID card on PCIe x4 slot is not detected if used with a discrete PCIe x16 graphics card.
- Fixed issue where two LAN devices have the same SMBIOS Device Type Instance values.
- Fixed issue some USB ports do not work at boot if certain PC-over-IP card is installed in PCIe x1 or x4 slot.
- Fixed issue where Under-Voltage Threshold and Over-Voltage Threshold memory voltage values are mismatched between Visual BIOS and classic mode.

BIOS Version 0060 - MKQ7710H.86A.0060.2013.0618.1012

About This Release:

- Date: June 17, 2013
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14

New Fixes/Features:

- Fixed issue where USB ports that are disabled in BIOS still appear in the operating system.

BIOS Version 0059 - MKQ7710H.86A.0059.2013.0430.1539

About This Release:

- Date: April 30, 2013
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- Visual BIOS version 1.2.14

New Fixes/Features:

- Fixed issue with flickering display when connected to a KVM.
- Fixed issue where Wake-on-LAN does not work after power loss.

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- Fixed issue where the Ctrl-P prompt continues to appear even after disabling in BIOS.
- Added Visual BIOS support.

BIOS Version 0058 - MKQ7710H.86A.0058.2013.0226.1541

About This Release:

- Date: February 26, 2013
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066

New Fixes/Features:

- Implemented install "Intel PK key" feature.
- Fixed issue where sensor threshold's proposed value is mismatched with active value in BIOS after changes are made in Intel® Desktop Utilities.

BIOS Version 0057 - MKQ7710H.86A.0057.2013.0205.1603

About This Release:

- Date: February 5, 2013
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066

New Fixes/Features:

- Fixed issue with TPM default setting.
- Updated processor support.
- Fixed issue where after enabling "Force Secure Boot defaults" three keys disappear and Secure Boot Mode is still "Custom".
- Fixed issue where certain bootable hard drive is displayed as "Unknown" in F10 mode.

BIOS Version 0056 - MKQ7710H.86A.0056.2013.0111.1351

About This Release:

- Date: January 11, 2013
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066

New Fixes/Features:

- Updated Intel® ME 8 firmware to version 8.1.20.1336.

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- Fixed issue with POST logo resolution when using certain legacy video cards.
- Fixed RAID issues:
 - Prompt 'Create Volume Fail' error occurs when entering BIOS setup when Secure Boot is enabled and SATA Mode is set to RAID.
 - The BIOS Setup options for UEFI RAID driver/OPROM do not work correctly: only RAID Volume information shows if volumes were previously created but cannot create, delete, or manage it.
- Fixed issue with Secure Boot with non-compliant legacy video card installed.

BIOS Version 0054 - MKQ7710H.86A.0054.2012.1120.1444

About This Release:

- Date: November 20, 2012
- ME Firmware: 8.1.2.1318
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066

New Fixes/Features:

- Fixed issue where User password will be generated again if pressing F9 to load BIOS default values.
- Fixed issue where the Password Prompt is not required when Chassis Intrusion is set to Log Only, if just the Supervisor Password is installed.
- Fixed issue where BIOS recovery fails if using a BIOS image altered with Intel® Integrator Toolkit.
- Fixed issue with USB 3.0 device.
- Updated processor support.

BIOS Version 0053 - MKQ7710H.86A.0053.2012.1030.1532

About This Release:

- Date: October 30, 2012
- ME Firmware: 8.1.2.1318
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066
- 3rd Generation EFI driver: 3.0.1018
- 2nd Generation EFI driver: 2.0.1020

New Fixes/Features:

- Added Trusted Platform Module Presence support in Setup.
- Fixed issue with IDE-R.

BIOS Version 0052 - MKQ7710H.86A.0052.2012.1019.1745

About This Release:

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

- Date: October 19, 2012
- ME Firmware: 8.1.2.1318
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- SATA RAID Option ROM: v11.6.0.1702
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0066

New Fixes/Features:

- Fixed issues with WHQL*, TPM 1.2 UEFI Preboot Interface Test and TCG Physical presence Interface 1.2 Test.
- Fixed issue where certain keyboards and mice are not detected during boot.
- Updated Intel® ME 8 firmware to version 8.1.2.1318.
- Updated MEBx to version 8.0.0.0066.
- Updated RAID Option ROM to version 11.6.0.1702.
- Updated vBIOS to version 2137 PC 14.34.
- Updated processor support
- Fixed issue with LAN packet drop.
- Fixed issue where TV tuner cards are not recognized.
- Fixed issue with setup display when using SOL.
- Fixed issue where some setup items do not show in map file for Intel® Integrator Toolkit.

BIOS Version 0050 - MKQ7710H.86A.0050.2012.0830.1022

About This Release:

- Date: August 30, 2012
- ME Firmware: 8.0.13.1502
- Integrated Graphics Option ROM: Build 2132 PC 14.34
- SATA RAID Option ROM: v11.2.0.1527
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0063

Note:

When using MK0050.BIO with the Intel® Integrator Toolkit (ITK) version 5.0.0, these errors may occur:

- **Error: Unsupported Logo.**
- **The opened BIOS does not have this support.**

If you need to use ITK version 5.0.0 to customize the BIOS for Intel® Desktop Board DQ77MK or DQ77CP, do not update to BIOS version 0050. This problem will be fixed in ITK version 5.0.1 and later.

New Fixes/Features:

- Fixed issue where "Press 2" prompt is displayed when updating BIOS with a custom BIOS from Intel® Integrator Toolkit.
- Fixed issue where the error message "CMOS Checksum error" displays when drive is encrypted.
- Fixed issue with UEFI Linux* installation.
- Added setup item "Memory Reference Multiplier".

BIOS Version 0049 - MKQ7710H.86A.0049.2012.0724.1241

About This Release:

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- Date: July 24, 2012
- ME Firmware: 8.0.13.1502
- Integrated Graphics Option ROM: Build 2132 PC 14.34
- SATA RAID Option ROM: v11.2.0.1527
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0063

New Fixes/Features:

- Fixed issue with Fast Boot.
- Fixed issue where SMBIOS values cannot be overwritten.
- Fixed issue where BIOS cannot perform IDE-R.
- Fixed issue where fan responsiveness value cannot be set in BIOS.
- Fixed issue with Windows XP SLP 1.0 Activation*.
- Added the visible way to enter MEBx.
- Fixed issue where SATA mode changes to IDE mode after BIOS Recovery.

BIOS Version 0048 - MKQ7710H.86A.0048.2012.0704.1457

About This Release:

- Date: July 4, 2012
- ME Firmware: 8.0.13.1502
- Integrated Graphics Option ROM: Build 2132 PC 14.34
- SATA RAID Option ROM: v11.2.0.1527
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0063

New Fixes/Features:

- Fixed issue where board exceeds VR temperatures under stress.
- Fixed issue where USB drives are not removed from boot order list when USB BOOT is disabled.
- Fixed issue where the memory multiplier does not match the speed under memory overrides on the Performance page.
- Fixed issue with add-on PCI LAN card.
- Updated Intel® ME firmware to version 8.0.13.1502.
- Update SATA RAID Option ROM to version 11.2.0.1527.
- Fixed issue with Primary Video Adapter function.
- Fixed issue where iFlash and BIOS recovery fails.
- Fixed issue with front panel USB ports.
- Fixed issue where Intel® Graphics Performance Analyzers is missing from the Video page in BIOS setup.
- Fixed issue where IGD Minimum Memory is missing from BIOS Setup.
- Fixed issue where monitor will not display on IGD when setting IGD as the first option under Detected Video Device Priority.
- Fixed issue where monitor always outputs to VGA port whatever setting of IGD primary or IGD secondary video port.
- Updated UEFI Boot Options if hard drive already has UEFI operating system installed.
- Fixed issue where the eSATA port shows as an external port in Rapid Storage Technology software.
- Fixed issue with Hard Disk Pre-Delay.

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- Fixed issue where the Supervisor password is still listed and in a locked state with full access level.
- Fixed reboot issue with USB keyboards.
- Updated processor support.
- Fixed issue where L2 cache is incorrect.
- Fixed issue where HDMI/DisplayPort Audio should be removed from Onboard Devices page.
- Fixed issue where Hide All does not work under Expansion Card Text.
- Fixed issue where PS/2 mouse can wake up unit from S4.
- Fixed issue where PS/2 keyboard does not work during POST and setup after setting PS/2 Port to Disabled.
- Updated password feature to allow special characters.

BIOS Version 0039 - MKQ7710H.86A.0039.2012.0504.1937

About This Release:

- Date: May 4, 2012
- ME Firmware: 8.0.10.1464
- Integrated Graphics Option ROM: Build 2132 PC 14.34
- SATA RAID Option ROM: v11.0.0.1339
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0063

New Fixes/Features:

- Updated Intel® ME firmware to version 8.0.10.1464.
- Updated MEBx to version 8.0.0.0063.
- Updated processor support.
- Fixed issue with USB charging.
- Fixed issue where LAN/Secondary LAN options are lost from onboard device page in BIOS Setup after setting supervisor or user password.
- Updated the S.M.A.R.T. item default value.
- Fixed issue where Detected Video Device Priority still lists IGD Video device after setting Integrated Graphics Device to Enable if Primary.
- Updated vBIOS to version Build 2132 PC 14.34.

BIOS Version 0034 - MKQ7710H.86A.0034.2012.0320.2026

About This Release:

- Date: March 20, 2012
- ME Firmware: 8.0.3.1427
- Integrated Graphics Option ROM: Build 2132 PC 14.34
- SATA RAID Option ROM: v11.0.0.1339
- LAN 82579 Option ROM: v1381 PXE 2.1 Build 091
- LAN 82574 Option ROM: v1381 PXE 2.1 Build 091
- MEBx Code: Based on Version 8.0.0.0061

New Fixes/Features:

- Initial production BIOS release

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