



## BIOS Update Release Notes

### **PRODUCTS: DZ77GA-70K, DZ77RE-75K (Standard BIOS)**

**BIOS Version 0066 - GAZ7711H.86A.0066.2013.0521.1509**

#### **About This Release:**

- Date: May 21, 2013
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2143
- SATA RAID Option ROM: v11.6.0.1702
- LAN Option ROM: v1.4.03 PXE
- Visual BIOS version 1.2.3

#### **New Fixes/Features:**

- Fixed blue screen error when installing Windows 8\*.
- Fixed issue where Intel® Integrator Toolkit stops working on Windows 8\* Enterprise 32-Bit.
- Updated processor support.

**BIOS Version 0064 - GAZ7711H.86A.0064.2013.0313.1822**

#### **About This Release:**

- Date: March 15, 2013
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2143
- SATA RAID Option ROM: v11.6.0.1702
- LAN Option ROM: v1.4.03 PXE
- Visual BIOS version 1.2.3

#### **New Fixes/Features:**

- Implemented global PK key.
- 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 0063 - GAZ7711H.86A.0063.2013.0129.1913**

#### **About This Release:**

- Date: January 29, 2013
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2143
- SATA RAID Option ROM: v11.6.0.1702
- LAN Option ROM: v1.4.03 PXE
- Visual BIOS version 1.2.3

#### **New Fixes/Features:**

- Fixed issue where after enabling "Force Secure Boot defaults" three keys disappear and Secure Boot Mode is still "Custom".

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- Fixed issue where drive icon for Marvell\* controller is missing in Windows\*.

**BIOS Version 0061 - GAZ7711H.86A.0061.2012.1228.1110**

**About This Release:**

- Date: December 28, 2012
- ME Firmware: 8.1.20.1336
- Integrated Graphics Option ROM: Build 2143
- SATA RAID Option ROM: v11.6.0.1702
- LAN Option ROM: v1.4.03 PXE
- Visual BIOS version 1.2.3

**New Fixes/Features:**

- Updated Intel® ME 8 firmware to version 8.1.20.1336.
- Fixed issue with Secure Boot when non-compliant Legacy video card is installed.
- Fixed issue where computer hangs on boot after BIOS update if UEFI boot is enabled.
- Fixed RAID issue where prompt 'Create Volume Fail' error occurs when entering BIOS setup when Secure Boot is enabled and SATA Mode is set to RAID.
- Fixed issue where computer powers down with certain graphics card and USB front panel card reader installed.
- Fixed issue where system always boots from USB flash drive even when it is disabled.
- Fixed issue where changes to memory voltage using Overclocking Assistant slider do not work.
- Fixed issue with certain USB card reader.
- Fixed issue where system boots to black screen with only a cursor and does not boot to the operating system.

**BIOS Version 0060 - GAZ7711H.86A.0060.2012.1115.1750**

**About This Release:**

- Date: November 15, 2012
- ME Firmware: 8.0.13.1502
- Integrated Graphics Option ROM: Build 2143
- SATA RAID Option ROM: v11.6.0.1702
- LAN Option ROM: v1.4.03 PXE
- Visual BIOS version 1.2.3

**New Fixes/Features:**

- Updated processor support.
- Fixed issue where XMP-2400MHz DIMMs are not supported in Channel B.
- Updated Visual BIOS to version 1.2.3
- Fixed issue where supervisor password prompt appears even when chassis intrusion is set to Log Only.

**BIOS Version 0059 - GAZ7711H.86A.0059.2012.1106.1053**

**About This Release:**

- Date: November 6, 2012

- ME Firmware: 8.0.13.1502
- Integrated Graphics Option ROM: Build 2143
- SATA RAID Option ROM: v11.6.0.1702
- LAN Option ROM: v1.4.03 PXE
- Visual BIOS version 1.2.2

**New Fixes/Features:**

- Fixed issue where system hangs with 1066 MHz memory.

**BIOS Version 0058 - GAZ7711H.86A.0058.2012.1030.1616**

**About This Release:**

- Date: October 30, 2012
- ME Firmware: 8.0.13.1502
- Integrated Graphics Option ROM: Build 2143
- SATA RAID Option ROM: v11.6.0.1702
- LAN Option ROM: v1.4.03 PXE
- Visual BIOS version 1.2.2

**New Fixes/Features:**

- Added support for USB3.0 Hub Presence.
- Updated Lucid Virtu\* MVP key.
- Updated Visual BIOS to version 1.2.2.
- Updated LAN PXE firmware to version 1.4.03.

**BIOS Version 0057 - GAZ7711H.86A.0057.2012.1024.1317**

**About This Release:**

- Date: October 24, 2012
- ME Firmware: 8.0.13.1502
- Integrated Graphics Option ROM: Build 2143
- SATA RAID Option ROM: v11.6.0.1702
- LAN Option ROM: v1.3.81 PXE 2.1 Build 091
- Visual BIOS version 1.2.1

**New Fixes/Features:**

- Fixed issue where TV tuner cards are not recognized.
- Fixed issue where certain keyboards and mice are not detected during boot.
- Updated processor support.
- Updated Intel® ME 8 firmware to version 8.1.2.1318.
- Updated RAID Option ROM to version 11.6.0.1702.
- Fixed LAN packet drop issue.
- Updated Visual BIOS to version 1.2.1.
- Updated VBIOS to version 2143.
- Fixed issue with MSFT KEK leaf certificate expired.
- Fixed memory multiplier issue when loading default.

**BIOS Version 0053 - GAZ7711H.86A.0053.2012.0905.2145**

**About This Release:**

- Date: September 5, 2012
- ME Firmware: 8.0.13.1502

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- Integrated Graphics Option ROM: Build 2132
- SATA RAID Option ROM: v11.2.0.1527
- LAN Option ROM: v1.3.81 PXE 2.1 Build 091
- Visual BIOS version 1.0.8

**Note:**

When using GA0053.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 DZ77GA-70K or DZ77RE-75K, do not update to BIOS version 0053. This problem will be fixed in ITK version 5.0.1 and later.

**New Fixes/Features:**

- Updated RAID Option ROM to version 11.2.0.1527.
- Fixed issue where "Press 2" prompt is displayed when updating BIOS with a custom BIOS from Intel® Integrator Toolkit.
- Fixed Linux\* UEFI issue.
- Fixed Thunderbolt Hot Plug issue.
- Improved UEFI boot option with Advanced boot order style.
- Changed PCH GPIO\_029 to Native mode.
- Added \OEMEM\OptionRoms\bios.bin to replace Marvell\* AHCI option ROM.
- Updated code for PS/2 device enable and disable functions.
- Updated code for flashing .BIO files with F7 key.
- Removed serial port support.

**BIOS Version 0049 - GAZ7711H.86A.0049.2012.0713.1518**

**About This Release:**

- Date: July 13, 2012
- ME Firmware: 8.0.13.1502
- Integrated Graphics Option ROM: Build 2132
- SATA RAID Option ROM: v11.1.0.1413
- LAN Option ROM: v1381 PXE 2.1 Build 091

**New Fixes/Features:**

- Fixed issue where SMBIOS values cannot be overwritten.
- Fixed issue where Marvell drive icon is missing in the operating system.
- Fixed fan speed control issues:
  - CPU Fan section has Usage set to "Inlet".
  - Front Fan has no Usage field.
  - Slider bars for the Over-Temperature Thresholds of each sensor are different lengths than the other slider bars (Control Temperature and All-On Temperature)
  - Changes made in voltage thresholds are applied incorrectly.
- Fixed issue where USB drives are not removed from boot order list when USB BOOT is disabled.
- Updated Intel® ME firmware to version 8.0.13.1502.
- Fixed issue where an alert is not triggered with auxiliary fan stops.
- Changed fan label from Auxiliary to Outlet Fan.
- Fixed issue where sustained mode items in Bios are incorrect.

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- Added DIMM Reference Voltage under Performance > Memory menu in BIOS.

BIOS Version 0045 - **GAZ7711H.86A.0045.2012.0613.1415**

**About This Release:**

- Date: June 13, 2012
- ME Firmware: 8.0.10.1464
- Integrated Graphics Option ROM: Build 2132
- SATA RAID Option ROM: v11.1.0.1413
- LAN Option ROM: v1381 PXE 2.1 Build 091

**New Fixes/Features:**

- Updated code for audio playback.
- Updated code for Video port setting.
- Fixed issue with disabling Consumer Infrared.
- Updated BIOS to allow special characters for passwords.
- Fixed issue where certain WiFi card is not detected.
- Added support for certain PCI VGA card.
- Fixed keyboard ready beep function.
- Fixed issue with certain SAS card.
- Fixed UEFI hard drive issue.
- Fixed issue where asset tag shows "No String" in Visual BIOS.
- Updated processor support.
- Fixed issue with Thunderbolt hot-plug and S4 resume.
- Fixed SATA hard drive speed issue.
- Fixed issue with Auto Resume.
- Fixed issue with BIOS defaults and Maintenance mode.
- Fixed issue where operating system installation fails with UEFI.
- Fixed issue with UEFI OS boot option under RAID mode with no input device connected.
- Updated Visual BIOS to version 1.0.4.
- Fixed issue with USB 3.0 front panel.
- Fixed issue where Memory DQ Ref Voltage option is missing if DIMM Reference Voltage Training is set to Manual.
- Changed the temperature value range in BIOS to 0-127.

BIOS Version 0039 - **GAZ7711H.86A.0039.2012.0426.1522**

**About This Release:**

- Date: April 26, 2012
- ME Firmware: 8.0.10.1464
- Integrated Graphics Option ROM: Build 2132
- SATA RAID Option ROM: v11.0.0.1339
- LAN Option ROM: v1381 PXE 2.1 Build 091

**New Fixes/Features:**

- Updated fan speed control.
- Fixed issue with PXE Boot ROM.
- Fixed issue with PS/2 mouse detection.
- Fixed issue with detected video device priority.
- Updated processor support.
- Updated RAID Option ROM to version 11.1.0.1413.

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- Updated VBIOS to version 2132.
- Updated Visual BIOS:
  - HDD password support
  - Fixed Boot Order disappearing after lateral transition
  - Fixed tab trap on security page
  - Updated Overclock Assistant tables
  - Fixed feature shortcuts on home page
  - Boot Order on boot page no longer incorrectly displays scroll bar
- Fixed issue where PS/2 keyboard does not wake up system from S3/S4/S5.
- Fixed issue with front USB port.
- Updated NTFS device support recovery.
- Updated Intel® ME 8 firmware to version 8.0.10.1464.
- Update LAN firmware to revision F4.
- Fixed setup item "wake on system from S5" UQI number.
- Fixed setup item "Memory DQ Ref Voltage" Hidden if DIMM Reference Voltage Training is not set to Manual.
- Updated XMP-2401 (frequency show 2400).
- Updated code for USB charging mode.
- Fixed x-Core turbo ratios, Burst Mode Power Limit, Sustained Mode Power limit and TDC Current Limit - questions should be hidden when Intel Turbo Boost Technology is disabled.
- Fixed the default setting of IGD DVMT Memory.
- Fixed issue where PS/2 keyboard and mouse do not work when booting twice in Safe Mode.

<b>BIOS Version 0035 - GAZ7711H.86A.0035.2012.0410.2011</b>
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**About This Release:**

- Date: April 10, 2012
- ME Firmware: 8.0.3.1427
- Integrated Graphics Option ROM: Build 2130 PC 14.34
- SATA RAID Option ROM: v11.0.0.1339
- LAN Option ROM: v1381 PXE 2.1 Build 091

**New Fixes/Features:**

- Fixed issue with fan full speed.
- Updated processor support.
- Updated Intel® Smart Connect Technology feature.
- Updated Overclocking Assistant feature.
- Fixes for Intel® Integrator Toolkit:
  - Modified to allow special characters in password strings.
  - Added support for handling BootCurrent variable.
  - Added support for EDK2 Setup Browser Password handle callback method.
  - After flash update, SATA Mode settings are retained when set to RAID.
- Fixed issue where system hangs at POST code EB when enabling PCH RAID.
- Fixed memory display issue with 2133MHz DIMMs.
- Updated SATA information in BIOS Setup.
- Fixed issue where Event Log shows flash update failure when doing capsule customizations.

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- Fixed issue where "Manual-User Defined" option on the Performance > Memory page does not work when certain processors are installed.
- Added Graphics Dynamic Frequency option.
- Added SKU Number in Chassis Information under SMBIOS.
- Added Intel® Graphics Performance Analyzers option.
- Added Secondary SATA Mode option.
- Fixed issue where system does not boot if connecting an eSATA device on the back panel and also connecting one or two SATA devices to the onboard grey SATA connectors.
- Fixed issue where a graphics card in PCIe X1, X4 and PCI slot does not show in the selection list of Detected Video Device Priority.
- Fixed issue where Initiated Chassis Intrusion, CMOS Date & Time, CMOS Battery, and CMOS Checksum errors do not appear in the Event Log.
- Fixed issue where there is no display if enabled "Video Optimization" is enabled.
- Fixed issue where Detected Video Device Priority is not shown in Setup when Primary Video Adaptor option is enabled.
- Added Flash Update Sleep Delay option.
- Added POST Code Routing option.
- Added "PCH Core (V)" option on the Performance page.
- Updated "Detected Secondary SATA Device" options.
- Added PS/2 Port option.
- Added Secondary LAN option.
- Updated S.M.A.R.T. option default setting to (Enabled).
- Added "Ext PCI Graphics" as an option for Primary Video Adapter.
- Added "Native ACPI OS PCIe Support" option.
- Added "High Precision Event Timer" option.

<b>BIOS Version 0027 - GAZ7711H.86A.0027.2012.0312.2352</b>
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**About This Release:**

- Date: March 12, 2012
- ME Firmware: 8.0.3.1427
- Integrated Graphics Option ROM: Build 2130 PC 14.34
- SATA RAID Option ROM: v11.0.0.1339
- LAN Option ROM: v1381 PXE 2.1 Build 091

**New Fixes/Features:**

- Fixed issue with detecting PCIe\_X8 device in PCIe\_X8 Slot.
- Fixed issue where value in "Maximum Duty Cycle" can be set lower than "Minimum Duty Cycle".
- Fixed Fan name in Real-Time Monitoring page.
- Fixed issues related to Intel® Integrator Toolkit (ITK).
- Fixed Processor Core (V), Memory (V) setup string on Performance page in BIOS Setup.
- Updated Intel® ME firmware version to 8.0.3.1427.
- Fixed issue where "Boot USB Devices First" option is hidden when disabled "USB Boot" option in BIOS.
- Updated Burst Mode Power Limit and Sustained Mode Power Limit maximum values.
- Fixed issue with numeric graphic when sliding overclock assistant.

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- Fixed issue where CIR device will be lost after enabling CIR device in BIOS setup.
- Fixed issue where Memory Timings do not change when using XMP profile or changing Memory Multiplier.
- Fixed issue where "Boot USB Devices First" option can be enabled when disabling "USB Boot" option.
- Fixed issue where Boot Menu (F10) lists optical devices when "Boot to Optical Devices" is disabled.
- Fixed issue where system fans always run in high speed.

**BIOS Version 0021 - GAZ7711H.86A.0021.2012.0222.2058**

**About This Release:**

- Date: February 22, 2012
- ME Firmware: 8.0.2.1410
- Integrated Graphics Option ROM: Build 2130 PC 14.34
- SATA RAID Option ROM: v11.0.0.1339
- LAN Option ROM: v1381 PXE 2.1 Build 091

**New Fixes/Features:**

- Initial production BIOS release

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