



## BIOS Update Release Notes

### PRODUCTS: DZ68BC (Standard BIOS)

**BIOS Version 0042 - BCZ6810H.86A.0042.2013.0902.1038**

#### About This Release:

- Date: September 2, 2013
- ME Firmware: 7.1.52.1176, 8.1.0.1248
- Integrated Graphics Option ROM: Build 2132 PC 14.34
- SATA RAID Option ROM: v11.2.0.1527
- LAN Option ROM: v1395 PXE 2.1 Build 091

#### Warning:

BIOS version 0035 includes support for 3<sup>rd</sup> Generation Intel® Core™ processors. Due to structural changes in this BIOS version, once a board has been converted to this version or later, it will no longer be possible to downgrade the BIOS to version 0028 or earlier. Attempting a BIOS downgrade to a previous version may fail - the board BIOS will remain at its current version.

To fully enable support for these processors, follow the special BIOS update steps at [Updating the BIOS on 6 Series chipset desktop boards.](#)

#### New Fixes/Features:

- Fixed issue where some processors are reported as unsupported in error.
- Fixed issue where system hangs when inserting certain graphic cards.
- Fixed issue where USB charging ports cannot detect devices in recovery mode.
- Updated Intel ME firmware to version 8.1.0.1248.
- Updated processor support.

**BIOS Version 0039 - BCZ6810H.86A.0039.2012.1018. 1115**

#### About This Release:

- Date: October 17, 2012
- ME Firmware: 7.1.52.1176, 8.0.13.1502
- Integrated Graphics Option ROM: Build 2132 PC 14.34
- SATA RAID Option ROM: v11.2.0.1527
- LAN Option ROM: v1395 PXE 2.1 Build 091

#### Warning:

BIOS version 0035 includes support for 3<sup>rd</sup> Generation Intel® Core™ processors. Due to structural changes in this BIOS version, once a board has been converted to this version or later, it will no longer be possible to downgrade the BIOS to version 0028 or earlier.

Attempting a BIOS downgrade to a previous version may fail - the board BIOS will remain at its current version.

To fully enable support for these processors, follow the special BIOS update steps at [Updating the BIOS on 6 Series chipset desktop boards.](#)

**New Fixes/Features:**

- Fixed issue where hard disk drive is not recognized when SATA mode is set to AHCI.
- Updated processor support.
- Updated VBIOS.

**BIOS Version 0037 - BCZ6810H.86A.0037.2012.0711.1949**

**About This Release:**

- Date: July 11, 2012
- ME Firmware: 7.1.52.1176, 8.0.13.1502
- Integrated Graphics Option ROM: Build 2132 PC 14.34
- SATA RAID Option ROM: v11.2.0.1527
- LAN Option ROM: v1395 PXE 2.1 Build 091

**Warning:**

BIOS version 0035 includes support for 3<sup>rd</sup> Generation Intel® Core™ processors. Due to structural changes in this BIOS version, once a board has been converted to this version or later, it will no longer be possible to downgrade the BIOS to version 0028 or earlier. Attempting a BIOS downgrade to a previous version may fail - the board BIOS will remain at its current version.

To fully enable support for these processors, follow the special BIOS update steps at [Updating the BIOS on 6 Series chipset desktop boards.](#)

**New Fixes/Features:**

- Updated Intel® ME firmware to versions 7.1.52.1176, 8.0.13.1502.
- Updated processor support.
- Updated RAID Option ROM to version 11.2.0.1527.
- Fixed issue where IGD primary and secondary ports do not function normal.
- Fixed issue where optical drive does not appear.
- **Fixed issue with the display of turbo ratio.**

**BIOS Version 0036 - BCZ6810H.86A.0036.2012.0605.1116**

**About This Release:**

- Date: June 5, 2012
- ME Firmware: 7.1.40.1161, 8.0.10.1464
- Integrated Graphics Option ROM: Build 2132 PC 14.34
- SATA RAID Option ROM: v11.1.0.1413
- LAN Option ROM: v1395 PXE 2.1 Build 091

**Warning:**

BIOS version 0035 includes support for 3<sup>rd</sup> Generation Intel® Core™ processors. Due to structural changes in this BIOS version, once a board has been converted to this version or later, it will no longer be possible to downgrade the BIOS to version 0028 or earlier. Attempting a BIOS downgrade to a previous version may fail - the board BIOS will remain at its current version.

To fully enable support for these processors, follow the special BIOS update steps at [Updating the BIOS on 6 Series chipset desktop boards.](#)

**New Fixes/Features:**

- Updated Intel® ME firmware to versions 7.1.40.1161, 8.0.10.1464.
- Updated processor support.
- Updated LAN Option ROM to version 1.3.95 PXE 2.1 Build 091.
- Updated VBIOS to version 2132.
- Updated SATA RAID Option ROM to version 11.1.0.1413.
- Fixed issue where overclocking does not work as expected after BIOS update.
- Fixed issue where turbo boost does not work.
- Fixed issue where F7 update fails after changing the settings of Processor Overrides page.
- Fixed issue where L2 Cache is incorrect.
- Fix issue with Wake up system from S5 setting.
- Fixed issue where actual calculated CPU frequency does not match the speed displayed in BIOS Setup.
- Fixed issue where computer halts at system welcome logo when certain processor is installed.
- Fixed yellow bang issue in Device Manager.
- Fixed issue where Overridden Processor Turbo Speed always shows in BIOS.
- Fixed issue where CPU Turbo Boost function cannot be disabled in the operating system.

**BIOS Version 0035 - BCZ6810H.86A.0035.2012.0409.1812**

**About This Release:**

- Date: April 9, 2012
- ME Firmware: Ignition SKU 7.1.30.1142, 8.0.0.1294
- Integrated Graphics Option ROM: Build 2119 PC 14.34
- SATA RAID Option ROM: v11.0.0.1339
- LAN Option ROM: v1381 PXE 2.1 Build 091

**Warning:**

BIOS version 0035 includes support for 3<sup>rd</sup> Generation Intel® Core™ processors. Due to structural changes in this BIOS version, once a board has been converted to this version or later, it will no longer be possible to downgrade the BIOS to version 0028 or earlier. Attempting a BIOS downgrade to a previous version may fail - the board BIOS will remain at its current version.

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**Known issue**

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Intel has identified an issue with this BIOS version, where the ability to overclock the system is not working after the BIOS update. Intel regrets any inconvenience caused by this issue and is working to provide corrected BIOS version as soon as possible.

**New Fixes/Features:**

- Implemented memory DDR3 VREFDQ function.
- Fixed issue where error occurs on integrated LAN in Device Manager\* when an add-in graphics card is installed.
- Fixed issue where memory dual channel mode detection fails.
- Fixed DIMM module compatibility, causing operating system installation issue.
- Updated processor support.
- Updated RAID option ROM to version 11.0.0.1339.
- Fixed system boot failure when "Memory Configuration" is set to "Manual - User Defined".
- Updated LAN Option ROM to version 1381.
- Added DDR3 low voltage DIMM module support.
- Disabled Keyboard not found event logging.
- Added support for Intel Power Supervisor.
- Fixed "Front Fan" subscreen of "Fan Control & Real-Time Monitoring" issue with +/- function.
- Fixed issue where system powers on normally but memory speed shows 1867 with Profile1 XMP-1778.
- Modified system to enter Marvell\* RAID setup and install operating system without driver in Marvell AHCI mode.
- Updated Intel® ME firmware to versions 7.1.30.1142 and 8.0.0.1294.
- Fixed issue where Reference clock fails to apply through Intel® Extreme Tuning Utility (XTU).
- Fixed issue where settings do not revert to default in XTU and BIOS after watchdog timer is triggered and choose Revert to System Defaults.
- Fixed issue where Cache on the XTU system information page is missing.
- Fixed issue where system hangs at POST code EB if USB-powered DVDROM has no media.
- Fixed issue where monitor will not remain in sleep state after wake from S3.

<b>BIOS Version 0028 - BCZ6810H.86A.0028.2011.1107.0958</b>
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**About This Release:**

- Date: November 7, 2011
- ME Firmware: 7.1.20.1119 CPT\_1.5M\_Production.BIN
- Integrated Graphics Option ROM: Build 2119 PC 14.34
- SATA RAID Option ROM: v10.6.0.1091
- LAN Option ROM: v1365 PXE 2.1 Build 089

**New Fixes/Features:**

- Updated VBIOS to version 2119.
- Fixed issue where additional Turbo Voltage value in Intel® Extreme Tuning Utility (XTU) did not restore to default after applying default profile.

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- Fixed issue where all settings do not revert to default in XTU and BIOS after watchdog timer is triggered and you choose Revert to System Defaults option in XTU.

**BIOS Version 0027 - BCZ6810H.86A.0027.2011.1013.1636**

**About This Release:**

- Date: October. 13, 2011
- ME Firmware: 7.1.20.1119 CPT\_1.5M\_Production.BIN
- Integrated Graphics Option ROM: Build 2120 PC 14.34
- SATA RAID Option ROM: v10.6.0.1091
- LAN Option ROM: v1365 PXE 2.1 Build 089

**New Fixes/Features:**

- Implemented black background function.
- Fixed issue where system will not boot when Fast Boot is Enabled in RAID mode.
- Updated Intel® ME setting.
- Fixed issue in Extreme Tuning Utility where tCL, tRCD, tRP and tRRD proposed and active value did not persist after making a change in BIOS Setup from default value (9,9,9,4) to (10,10,10,5).
- Fixed issue where the monitor will not remain in sleep state after wake up from S3.
- Updated Intel® ME firmware to version 7.1.20.1119.
- Updated VBIOS to version 2120.
- Fixed issue where POST failure message is shown in BIOS Setup during Auto Tune and Manual Tuning if watchdog timer is fired.
- Fixed issue where system requires to show a key which will power off the board after three incorrect attempts with hard disk drive password installed.
- Fixed issue where error message displays out of the box with hard disk drive password installed.
- Fixed issue where system keeps rebooting and fails to go past the POST stage when applying XMP 1600 profile through BIOS.
- Fixed issue where the memory ratio should be changed after selecting any memory frequency in Overclocking Assistant.
- Fixed issue where applying default profile in Extreme Tuning Utility, core voltage value does not restore to default.
- Added support for Microsoft\* OEM Activation 3.0.
- Fixed issue with options for Active Processor Cores.
- Fixed issue where if there are no devices detected on a secondary SATA port, the item of "No SATA Device Detected" should display.
- Fixed issue where the default memory timings values in Extreme Tuning Utility (XTU) system Table changed to non-default values after pressing F9/F10 in BIOS.
- Fixed issue where core voltage values do not restore to defaults after applying default profile in XTU or pressing F9/F10 in BIOS.
- Updated memory configuration layout in setup menu.
- Updated Portable Device Charging Mode string and help description.
- Fixed issue where USB 3.0 will show yellow mark in Device Manager after enabling USB Optimization in BIOS.
- Fixed issue where the default memory timing values in Extreme Tuning Utility (XTU) system Table changes to non-default values after pressing F9/F10 in BIOS.

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- Added Overclocking Assistant to Performance page.
- Fixed issue where VSA is set to 1.05V when selecting 2133 profile in Overclocking Assistant.
- Fixed issue where memory configuration cannot be updated in both channels when setting memory speed in Overclocking Assistant.
- Updated default value of USB Charging.
- Fixed control range and step size mismatch between F2 BIOS and XTU for Turbo settings.
- Moved up USB Charging BIOS setup options on the USB Configuration page.
- Added graphic voltage in Extreme Tuning Utility (XTU).
- Fixed control range and step size mismatch between F2 BIOS and XTU for Turbo settings.
- Fixed issue where CPU VSA voltage needs to over-voltage to 1.05V if XMP profile over 2133 MHz.
- Updated Memory Timings and Memory Multiplier control value and sliders in XTU to be arranged in descending order.
- Fixed issue where the Additional Turbo Voltage control range and step size is not matched with Voltage Offset in BIOS.
- Fixed issue where Active CMD in F2 BIOS always stays as Auto regardless of proposed value.
- Fixed issue where the Processor Voltage Override (V) in BIOS changed from Default value to 1.0000 after applying changes in XTU.
- Fixed issue where tRC is missing in XTU after F9 F10 when POST failure message appeared.
- Fixed issue where Control range for Core Current Limit in XTU does not match with BIOS.
- Fixed issue where Intel® Turbo Boost Technology and other related controls show in XTU and F2 BIOS on Core i3-2120T processor.

<b>BIOS Version 0021 - BCZ6810H.86A.0021.2011.0831.1555</b>
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**About This Release:**

- Date: August 31, 2011
- ME Firmware: 7.1.13.1088 CPT\_1.5M\_Production.BIN
- Integrated Graphics Option ROM: Build 2119 PC 14.34
- SATA RAID Option ROM: v10.6.0.1091
- LAN Option ROM: v1365 PXE 2.1 Build 089

**New Fixes/Features:**

- Added Portable Device Charging Mode setup option for USB.

<b>BIOS Version 0020 - BCZ6810H.86A.0020.2011.0825.1110</b>
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**About This Release:**

- Date: August 25, 2011
- ME Firmware: 7.1.13.1088 CPT\_1.5M\_Production.BIN
- Integrated Graphics Option ROM: Build 2119 PC 14.34
- SATA RAID Option ROM: v10.6.0.1091
- LAN Option ROM: v1365 PXE 2.1 Build 089

**New Fixes/Features:**

- Initial production BIOS release

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## LEGAL INFORMATION

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