



## BIOS Update Release Notes

**PRODUCTS: DH61BE, DH61CR, DH61DL, DH61WW, DH61SA, DH61ZE  
(Standard BIOS)**

**BIOS Version 0120 - BEH6110H.86A.0120.2013.1112.1412**

### About This Release:

- Date: November 12, 2013
- ME Firmware: Ignition SKU 8.1.0.1248
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.4.03 PXE 2.1 Build 091

BIOS version 0099 added support for Microsoft Windows 8\*. Due to structural changes in version 0099, once a board has been converted to 0099 or later, it will no longer be possible to downgrade the BIOS to version 0048 or earlier. Attempting a BIOS downgrade to a previous version may fail - the board BIOS will remain at its current version.

If the computer's current BIOS version is 0048:

1. Check if the Intel Management Engine (Intel ME) Firmware is version 7 or 8.
  - a) Press F2 during boot to enter BIOS Setup.
  - b) Go to the Main > System Identification Information screen
  - c) The Intel ME version is listed here.
  - d) Press F10 to exit BIOS Setup.
2. If the Intel ME version is 7.x, use the BE0048.BIO file to do a BIOS Recovery and then check the Intel ME Firmware version again to confirm that version 8.x has been installed.
3. Then update to version 0099 before updating to any later BIOS version, using one of these methods:
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update
4. Update to any later than 0099 BIOS version. Using one of these methods:
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update

If the computer's current BIOS version is earlier than 0048:

1. You must first update to version 0048, using one of these methods:
  - Express Update
  - iFlash Update

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

2. Check if the Intel Management Engine (Intel ME) Firmware is version 7 or 8.
  - a) Press F2 during boot to enter BIOS Setup.
  - b) Go to the Main > System Identification Information screen
  - c) The Intel ME version is listed here.
  - d) Press F10 to exit BIOS Setup.
3. If the Intel ME version is 7.x, use the BE0048.BIO file to do a BIOS Recovery and then check the Intel ME Firmware version again to confirm that version 8.x has been installed.
4. Then you must then update to version 0099 before upgrading to any later BIOS, using one of these methods.
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update
5. Update to any later than 0099 BIOS version. Using one of these methods.
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update

There are no special steps required for updating from BIOS version later than 0099 to a more current BIOS version.

**New Fixes/Features:**

- Fixed issue with warning message of missing security jumper prompt while doing BIOS Recovery.
- Fixed issue where Boot Drive Order cannot be modified by Intel® Integrator Toolkit.
- Fixed issue where Hard Drive Order cannot be changed.

<b>BIOS Version 0118 - BEH6110H.86A.0118.2013.0918.1108</b>
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**About This Release:**

- Date: September 18, 2013
- ME Firmware: Ignition SKU 8.1.0.1248
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.4.03 PXE 2.1 Build 091

BIOS version 0099 added support for Microsoft Windows 8\*. Due to structural changes in version 0099, once a board has been converted to 0099 or later, it will no longer be possible to downgrade the BIOS to version 0048 or earlier. Attempting a BIOS downgrade to a previous version may fail - the board BIOS will remain at its current version.

If the computer's current BIOS version is 0048:

1. Check if the Intel Management Engine (Intel ME) Firmware is version 7 or 8.
  - a) Press F2 during boot to enter BIOS Setup.
  - b) Go to the Main > System Identification Information screen
  - c) The Intel ME version is listed here.
  - d) Press F10 to exit BIOS Setup.

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

2. If the Intel ME version is 7.x, use the BE0048.BIO file to do a BIOS Recovery and then check the Intel ME Firmware version again to confirm that version 8.x has been installed.
3. Then update to version 0099 before updating to any later BIOS version, using one of these methods:
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update
4. Update to any later than 0099 BIOS version. Using one of these methods:
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update

If the computer's current BIOS version is earlier than 0048:

2. You must first update to version 0048, using one of these methods:
  - Express Update
  - iFlash Update
2. Check if the Intel Management Engine (Intel ME) Firmware is version 7 or 8.
  - a) Press F2 during boot to enter BIOS Setup.
  - b) Go to the Main > System Identification Information screen
  - c) The Intel ME version is listed here.
  - d) Press F10 to exit BIOS Setup.
3. If the Intel ME version is 7.x, use the BE0048.BIO file to do a BIOS Recovery and then check the Intel ME Firmware version again to confirm that version 8.x has been installed.
4. Then you must then update to version 0099 before upgrading to any later BIOS, using one of these methods.
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update
5. Update to any later than 0099 BIOS version. Using one of these methods.
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update

There are no special steps required for updating from BIOS version later than 0099 to a more current BIOS version.

**New Fixes/Features:**

- Fixed issue where system hangs during boot at POST code E6 when certain PCI recovery card is installed.

BIOS Version 0117 - BEH6110H.86A.0117.2013.0704.1354
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**About This Release:**

- Date: July 4, 2013
- ME Firmware: Ignition SKU 8.1.0.1248
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.4.03 PXE 2.1 Build 091

BIOS version 0099 added support for Microsoft Windows 8\*. Due to structural changes in version 0099, once a board has been converted to 0099 or later, it will no longer be possible to downgrade the BIOS to version 0048 or earlier. Attempting a BIOS downgrade to a previous version may fail - the board BIOS will remain at its current version.

If the computer's current BIOS version is 0048:

1. Check if the Intel Management Engine (Intel ME) Firmware is version 7 or 8.
  - a) Press F2 during boot to enter BIOS Setup.
  - b) Go to the Main > System Identification Information screen
  - c) The Intel ME version is listed here.
  - d) Press F10 to exit BIOS Setup.
2. If the Intel ME version is 7.x, use the BE0048.BIO file to do a BIOS Recovery and then check the Intel ME Firmware version again to confirm that version 8.x has been installed.
3. Then update to version 0099 before updating to any later BIOS version, using one of these methods:
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update
4. Update to any later than 0099 BIOS version. Using one of these methods:
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update

If the computer's current BIOS version is earlier than 0048:

3. You must first update to version 0048, using one of these methods:
  - Express Update
  - iFlash Update
2. Check if the Intel Management Engine (Intel ME) Firmware is version 7 or 8.
  - a) Press F2 during boot to enter BIOS Setup.
  - b) Go to the Main > System Identification Information screen
  - c) The Intel ME version is listed here.
  - d) Press F10 to exit BIOS Setup.
3. If the Intel ME version is 7.x, use the BE0048.BIO file to do a BIOS Recovery and then check the Intel ME Firmware version again to confirm that version 8.x has been installed.

4. Then you must then update to version 0099 before upgrading to any later BIOS, using one of these methods.
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update
5. Update to any later than 0099 BIOS version. Using one of these methods.
  - Express BIOS Update
  - F7 BIOS Flash Update
  - iFlash Update

There are no special steps required for updating from BIOS version later than 0099 to a more current BIOS version.

**New Fixes/Features:**

- Fixed issue where an error "LCD Display incompatible with video mode" occurs with certain LCD monitors.
- Updated processor support.

<b>BIOS Version 0116 - BEH6110H.86A.0116.2013.0610.1000</b>
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**About This Release:**

- Date: June 10, 2013
- ME Firmware: Ignition SKU 8.1.0.1248
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.4.03 PXE 2.1 Build 091

BIOS version 0099 added support for Microsoft Windows 8\*. Due to structural changes in version 0099, once a board has been converted to 0099 or later, it will no longer be possible to downgrade the BIOS to version 0048 or earlier. Attempting a BIOS downgrade to a previous version may fail - the board BIOS will remain at its current version.

If the computer's current BIOS version is 0048:

1. You must first update to version 0099 before updating to any later BIOS version. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.

If the computer's current BIOS version is earlier than 0048:

2. You must first update to version 0048. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.
3. After you have updated the BIOS to version 0048, you must then update to version 0099 before upgrading to any later BIOS. You may use any of our BIOS update methods for this step in the BIOS update process.

There are no special steps required for updating from BIOS version 0099 to a more current BIOS version.

**New Fixes/Features:**

- Fixed issue where SATA3 ports are unstable for operating system installation.
- Fixed issue where USB ports randomly fail.

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

- Fixed issue where PS/2 keyboard LED does not turn off when system is off.
- Fixed issue where PCIe slot 2 loses functionality when LAN is disabled. PCIe Slot 3 can be selected when inserting device into PCIe slot 2.
- Fixed issue where PS/2 devices still work in the operating system when the PS/2 port is disabled in BIOS.

**BIOS Version 0115 - BEH6110H.86A.0115.2013.0506.1629**

**About This Release:**

- Date: May 6, 2013
- ME Firmware: Ignition SKU 8.1.0.1248
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.4.03 PXE 2.1 Build 091

BIOS version 0099 added support for Microsoft Windows 8\*. Due to structural changes in version 0099, once a board has been converted to 0099 or later, it will no longer be possible to downgrade the BIOS to version 0048 or earlier. Attempting a BIOS downgrade to a previous version may fail - the board BIOS will remain at its current version.

If the computer's current BIOS version is 0048:

4. You must first update to version 0099 before updating to any later BIOS version. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.

If the computer's current BIOS version is earlier than 0048:

5. You must first update to version 0048. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.
6. After you have updated the BIOS to version 0048, you must then update to version 0099 before upgrading to any later BIOS. You may use any of our BIOS update methods for this step in the BIOS update process.

There are no special steps required for updating from BIOS version 0099 to a more current BIOS version.

**New Fixes/Features:**

- Fixed issue where wireless card on mini-PCIe x1 slot does not work.
- Fixed issue where USB 3.0 does not work.
- Fixed issue where system will display from PCI graphics card first instead of PCIe.
- Fixed issue where PCIe x1 slot stops working when LAN is disabled.
- Fixed issue where PS/2 devices still work in the operating system when the PS/2 port was disabled in BIOS.
- Implemented Intel Platform Key.
- Fixed issue where Intel® Integrator Toolkit crashes when selecting platform option.
- Fixed issue where overridden memory speed is lost on the Main page.
- Fixed issue with an error in the display of PCI slot information.

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- Fixed issue where SATA port 2 does not detect devices.
- Fixed issue where BIOS Setup shows abnormal values on 12V/2.5V/CPU when Intel® Desktop Utilities has set values which are not defined in BIOS.

**BIOS Version 0113 - BEH6110H.86A.0113.2013.0226.1448**

**About This Release:**

- Date: February 26, 2013
- ME Firmware: Ignition SKU 8.1.0.1248
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.4.03 PXE 2.1 Build 091

BIOS version 0099 added support for Microsoft Windows 8\*. Due to structural changes in version 0099, once a board has been converted to 0099 or later, it will no longer be possible to downgrade the BIOS to version 0048 or earlier. Attempting a BIOS downgrade to a previous version may fail – the board BIOS will remain at its current version.

If the computer's current BIOS version is 0048:

7. You must first update to version 0099 before updating to any later BIOS version. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.

If the computer's current BIOS version is earlier than 0048:

8. You must first update to version 0048. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.
9. After you have updated the BIOS to version 0048, you must then update to version 0099 before upgrading to any later BIOS. You may use any of our BIOS update methods for this step in the BIOS update process.

There are no special steps required for updating from BIOS version 0099 to a more current BIOS version.

**New Fixes/Features:**

- Fixed issue where system boots automatically when "After Power Failure" is set to stay off.
- Fixed issue where Boot From USB fails.
- Fixed issue where system cannot enter S3/S4.
- Fixed issue where the rear fan item in BIOS is missing.
- Updated processor support.
- Fixed issue where video is lost after CPU thermal trip.
- Fixed issue where Primary Temperature Input and Secondary Temperature Input cannot be restored to default.

**BIOS Version 0111 - BEH6110H.86A.0111.2013.0123.1230**

**About This Release:**

- Date: January 23, 2013
- ME Firmware: Ignition SKU 8.1.0.1248
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.4.03 PXE 2.1 Build 091

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

BIOS version 0099 added support for Microsoft Windows 8\*. Due to structural changes in version 0099, once a board has been converted to 0099 or later, it will no longer be possible to downgrade the BIOS to version 0048 or earlier. Attempting a BIOS downgrade to a previous version may fail – the board BIOS will remain at its current version.

If the computer's current BIOS version is 0048:

10. You must first update to version 0099 before updating to any later BIOS version. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.

If the computer's current BIOS version is earlier than 0048:

11. You must first update to version 0048. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.
12. After you have updated the BIOS to version 0048, you must then update to version 0099 before upgrading to any later BIOS. You may use any of our BIOS update methods for this step in the BIOS update process.

There are no special steps required for updating from BIOS version 0099 to a more current BIOS version.

**New Fixes/Features:**

- Fixed issue where Boot Drive Order shows no devices when Legacy Boot is disabled.
- Fixed SMBIOS structure issue.
- Fixed issue where HPET cannot be disabled.
- Fixed issue with PCI Hardware Compliance Test For Systems.
- Fixed issue where SPD Tolerance message pops up always during POST.
- Fixed issue where USB 3.0 ports do not work.
- Removed Ext PCI Graphics choice from Primary Video Adapter option.
- Fixed the warning messages for S.M.A.R.T HDD, CMOS Battery Failure, and Memory Size Decrease.
- Fixed issue where events still pause during POST when Event Logging is disabled.
- Fixed issue where the system hangs during POST when a PCIe x1 video card is installed.
- Fixed issue where PCIe\_x1 device is not detected.
- Fixed issue where mini PCIe x1 wireless cards does not work.

<b>BIOS Version 0109 - BEH6110H.86A.0109.2012.1221.1455</b>
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**About This Release:**

- Date: December 21, 2012
- ME Firmware: Ignition SKU 8.1.0.1248
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.4.03 PXE 2.1 Build 091

BIOS version 0099 added support for Microsoft Windows 8\*. Due to structural changes in version 0099, once a board has been converted to 0099 or later, it will no longer be possible to downgrade the BIOS to

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version 0048 or earlier. Attempting a BIOS downgrade to a previous version may fail – the board BIOS will remain at its current version.

If the computer's current BIOS version is 0048:

13. You must first update to version 0099 before updating to any later BIOS version. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.

If the computer's current BIOS version is earlier than 0048:

14. You must first update to version 0048. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.
15. After you have updated the BIOS to version 0048, you must then update to version 0099 before upgrading to any later BIOS. You may use any of our BIOS update methods for this step in the BIOS update process.

There are no special steps required for updating from BIOS version 0099 to a more current BIOS version.

**New Fixes/Features:**

- Fixed issue where Setup Compliance Test fails.
- Fixed issue where devices cannot be shown in Boot Page when Boot Menu Type is set to Normal.
- Fixed issue where SMBIOS Memory Data test fails.
- Fixed issue where the list of Boot Drive Order is incorrect.
- Implemented Marvell\* SATA port function on DH61BE.
- Fixed issue with parallel port [Disabled] function.
- Fixed issue where power LED is off when system boots and resumes from hibernation.
- Fixed issue with system resumes automatically from standby mode.
- Fixed issue where BIOS Recovery function fails.
- Fixed issue where the onboard Piezo Speaker does not work.
- Fixed issue where the front panel LED always stays off.
- Fixed issue where the alternate power LED header does not work.
- Fixed issue where IGD is the first option under [Detected Video Device Priority].
- Fixed issue where the values on the fan speed control page become unsteady after a BIOS recovery.
- Fixed issue where values in Intel® Desktop Utilities do not match BIOS Setup.
- Fixed issue where the functions of minimum duty cycle values are reversed on the fan speed control page.
- Fixed issue where system will wake up from S3 automatically.
- Fixed issue where there is a display error of BIOS setup hot key.
- Fixed issue with USB ports.
- Fixed issue where IGD DVMT Memory should be replaced by IGD Minimum memory.
- Fixed issue where PCH Temperature shows 0.
- Fixed issue where the default values in Performance are incorrect.
- Fixed issue where SSID/SVID is incorrect.
- Fixed issue with front panel audio.
- Fixed issue where internal mono speaker does not disable automatically after connecting speaker to rear green port.

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- Fixed issue where PS/2 mouse or keyboard causes the system to halt during POST with POST code 92 when Numlock is disabled in BIOS.
- Fixed issue where internal mono speaker does not work.
- Fixed issue where the SATA ports 2 and 3 hot plug capability does not work.
- Fixed issue where the supported boards listed in Intel® Integrator Toolkit are incorrect.
- Fixed issue where PC Resume fails: The total resume time of this machine is longer than 2000ms.
- Fixed issue where PCI Hardware Compliance Test for System fails.
- Fixed issue where Parallel Port and Serial Connector do not work.
- Fixed issue where [Parallel Port] and [Mode] test items are missing from BIOS.
- Fixed issue where temperature ranges are incorrect.
- Fixed issue where Deep S4/S5 does not work.
- Fixed issue where Keyboard Ready Beep does not work.
- Fixed issue where some information in SMBIOS is incorrect.
- Fixed issue where there is no 5.1 speaker.
- Fixed issue where jack-retasking function is incorrect.
- Fixed issue where PS/2 keyboard does not work during POST and in BIOS Setup when PS/2 port is disabled.
- Fixed issue where Hard Disk Pre-delay will be hidden when Chipset SATA is disabled.
- Fixed issue where system cannot wake on PS/2 Keyboard from S5.
- Fixed issue where the default value is incorrect for [MODE].
- Fixed issue where Chassis Intrusion does not work.
- Fixed issue where High Precision Event Timers does not work.
- Updated vBIOS to version 2137.
- Fixed issue where unexpected warning message about unsupported CPU is shown after POST screen.
- Fixed issue where DVI-D port does not work.
- Fixed issue where PCI slot information is missing.
- Fixed issue where PCI slot does not work.
- Fixed issue where front panel USB connector does not work.
- Fixed issue where audio driver will show a warning message after it is installed.
- Fixed issue where the Intel® ME Firmware is incorrect.
- Fixed issue where PCI Latency Timer test item is missing.
- Fixed issue where Legacy PCI slots option is missing from Primary Video Adaptor menu.
- Fixed issue where IGD Primary Video Port and IGD Secondary Video Port are lost.
- Fixed issue where the function of Rear fan speed and Front fan speed are reversed.
- Fixed issue where some voltage values show incorrectly in BIOS.
- Fixed issue where LAN cannot be disabled.

<b>BIOS Version 0099 - BEH6110H.86A.0099.2012.1205.1819</b>
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**About This Release:**

- Date: December 5, 2012
- ME Firmware: Ignition SKU 7.1.52.1176, 8.0.13.1502

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

- Integrated Graphics Option ROM: Build 2132 PC 14.34(DH61BE, DH61CR, DH61WW, DH61SA)
- Integrated Graphics Option ROM: Build 2132 PC 14.34(DH61DL)
- Integrated Graphics Option ROM: Build 2132 PC 14.34(DH61ZE)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.4.03 PXE 2.1 Build 091

**New Fixes/Features:**

- Transition BIOS to add support for Microsoft Windows 8\*.

BIOS version 0099 added support for Microsoft Windows 8\*. Due to structural changes in version 0099, once a board has been converted to 0099 or later, it will no longer be possible to downgrade the BIOS to version 0048 or earlier. Attempting a BIOS downgrade to a previous version may fail – the board BIOS will remain at its current version.

If the computer's current BIOS version is 0048:

16. You must first update to version 0099 before updating to any later BIOS version. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.

If the computer's current BIOS version is earlier than 0048:

17. You must first update to version 0048. We recommend you perform a [BIOS Recovery](#) for this step in the BIOS update process.
18. After you have updated the BIOS to version 0048, you must then update to version 0099 before upgrading to any later BIOS. You may use any of our BIOS update methods for this step in the BIOS update process.

There are no special steps required for updating from BIOS version 0099 to a more current BIOS version.

BIOS Version 0048 - BEH6110H.86A.0048.2012.1105.1520
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**About This Release:**

- Date: November 5, 2012
- ME Firmware: Ignition SKU 7.1.52.1176, 8.0.13.1502
- Integrated Graphics Option ROM: Build 2137 PC 14.34
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.4.03 PXE 2.1 Build 091

**Warning:**

BIOS version 0041 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 0035 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:**

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

- Fixed issue where processor temperature is incorrect in BIOS setup.

**BIOS Version 0046 - BEH6110H.86A.0046.2012.0829.1445**

**About This Release:**

- Date: August 29, 2012
- ME Firmware: Ignition SKU 7.1.52.1176, 8.0.13.1502
- Integrated Graphics Option ROM: Build 2132 PC 14.34 (DH61BE, DH61CR, DH61WW, DH61SA)
- Integrated Graphics Option ROM: Build 2132 PC 14.34 (DH61DL)
- Integrated Graphics Option ROM: Build 2132 PC 14.34 (DH61ZE)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.81 PXE 2.1 Build 091

**Warning:**

BIOS version 0041 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 0035 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 with error message when an i5-2500K processor is installed.
- Fixed issue where system hangs at POST code EB when hard disk attached to certain PCIe x1 RAID card is configured as JBOD or RAID 0/1/.
- Fixed issue where certain RAID card on PCIe x16 slot fails to enter card option ROM in UEFI mode.

**BIOS Version 0045 - BEH6110H.86A.0045.2012.0711.1948**

**About This Release:**

- Date: July 11, 2012
- ME Firmware: Ignition SKU 7.1.52.1176, 8.0.13.1502
- Integrated Graphics Option ROM: Build 2132 PC 14.34 (DH61BE, DH61CR, DH61WW, DH61SA)
- Integrated Graphics Option ROM: Build 2132 PC 14.34 (DH61DL)
- Integrated Graphics Option ROM: Build 2132 PC 14.34 (DH61ZE)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.81 PXE 2.1 Build 091

**Warning:**

BIOS version 0041 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 0035 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 8 firmware version to 8.0.13.1502.
- Updated Intel® ME 7 firmware version to 7.1.52.1176.
- Updated processor support.
- Updated processor warning messaging.
- Updated the active value column of memory voltage to follow the proposed memory voltage value on the Performance page.

**BIOS Version 0044 - BEH6110H.86A.0044.2012.0531.1710**

**About This Release:**

- Date: May 31, 2012
- ME Firmware: Ignition SKU 7.1.40.1161, 8.0.4.1441
- Integrated Graphics Option ROM: Build 2132 PC 14.34 (DH61BE, DH61CR, DH61WW, DH61SA)
- Integrated Graphics Option ROM: Build 2132 PC 14.34 (DH61DL)
- Integrated Graphics Option ROM: Build 2132 PC 14.34 (DH61ZE)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.81 PXE 2.1 Build 091

**Warning:**

BIOS version 0041 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 0035 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 with blue screen error when resuming from sleep mode when using Marvell\* SATA port.
- Updated Intel® ME 8 firmware version to 8.0.4.1441.
- Updated Intel® ME 7 firmware version to 7.1.40.1161.
- Update VBIOS to version 2132.
- Updated processor support.
- Fixed issue where PCI recovery card does not work.
- Fixed issue with turbo boost and memory timing frequency issues.
- Added Dolby\* function.

**BIOS Version 0042 - BEH6110H.86A.0042.2012.0327.2202**

**About This Release:**

- Date: March 27, 2012
- ME Firmware: Ignition SKU 7.1.30.1142, 8.0.0.1294

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

- Integrated Graphics Option ROM: Build 2119 PC 14.34(DH61BE, DH61CR, DH61WW,DH61SA)
- Integrated Graphics Option ROM: Build 2119 PC 14.34(DH61DL)
- Integrated Graphics Option ROM: Build 2119 PC 14.34(DH61ZE)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.81 PXE 2.1 Build 091

**Warning:**

BIOS version 0041 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 0035 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 system hangs at POST code 50 when wireless LAN card is reset by power bottom.

**BIOS Version 0041 - BEH6110H.86A.0041.2012.0319.1659**

**About This Release:**

- Date: March 19, 2012
- ME Firmware: Ignition SKU 7.1.30.1142, 8.0.0.1294
- Integrated Graphics Option ROM: Build 2119 PC 14.34(DH61BE, DH61CR, DH61WW,DH61SA)
- Integrated Graphics Option ROM: Build 2119 PC 14.34(DH61DL)
- Integrated Graphics Option ROM: Build 2119 PC 14.34(DH61ZE)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.81 PXE 2.1 Build 091

**Warning:**

BIOS version 0041 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 0035 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 integrated LAN shows an error in Device Manager\* when certain graphics card is installed.
- Fixed issue where dual channel memory mode is not detected properly.
- Fixed issue with DIMM module compatibility that causes an operating system installation issue.

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

- Fixed issue where system does not boot when "Memory Configuration" is set to "Manual - User Defined".
- Updated processor support.
- 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.
- Updated Intel® ME firmware to versions 7.1.30.1142 and 8.0.0.1294.
- Removed the Fixed issue where for system hang with blue screen error when resuming from Sleep Mode on Marvell\* SATA port (originally added in BIOS version 0035).

<b>BIOS Version 0035 - BEH6110H.86A.0035.2012.0112.2206</b>
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**About This Release:**

- Date: January 12, 2012
- ME Firmware: Ignition SKU 7.1.20.1119
- Integrated Graphics Option ROM: Build 2119 PC 14.34(DH61BE, DH61CR, DH61WW, DH61SA)
- Integrated Graphics Option ROM: Build 2119 PC 14.34(DH61DL)
- Integrated Graphics Option ROM: Build 2119 PC 14.34(DH61ZE)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.65 PXE 2.1 Build 089

**New Fixes/Features:**

- Fixed issue where system hangs with blue screen error when resuming from Sleep Mode on Marvell\* SATA port.

<b>BIOS Version 0034 - BEH6110H.86A.0034.2011.1018.1937</b>
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**About This Release:**

- Date: October 18, 2011
- ME Firmware: Ignition SKU 7.1.20.1119
- Integrated Graphics Option ROM: Build 2119 PC 14.34(DH61BE, DH61CR, DH61WW, DH61SA)
- Integrated Graphics Option ROM: Build 2119 PC 14.34(DH61DL)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.65 PXE 2.1 Build 089

**New Fixes/Features:**

- Updated processor support.
- Fixed issue where BIOS system fails after updating to BIOS version 0032 on DH61DL.
- Fixed issue with the OA 2.1 validation process.
- Fixed issue where certain optical drive is not detected.
- Fixed issue where no video is displayed when certain PCIe card is installed.
- Added support for Microsoft\* OEM Activation 3.0.
- Updated VBIOS to version 2119.
- Updated Intel® ME firmware to version 7.1.20.1119.
- Fixed issue where SATA optical drives do not display in BIOS if connected to a Marvell\* SATA port.

**About This Release:**

- Date: July 15, 2011
- ME Firmware: Ignition SKU 7.1.13.1088
- Integrated Graphics Option ROM: Build 2117 PC 14.34 (DH61BE, DH61CR, DH61WW, DH61SA)
- Integrated Graphics Option ROM: Build 2111 PC 14.34 (DH61DL)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.65 PXE 2.1 Build 089

**New Fixes/Features:**

- Fixed issue where there are no active and default values under Fan control & Real-time monitoring page.
- Fixed issue where there is no "Ext PCI Graphics" option listed under primary video adapter.
- Fixed issue where the value of host clock frequency still can be changed with limited or view only level.
- Fixed issue where the characters for the selected slot did not change from "=" to "X" under help illustration of the motherboard.
- Fixed issue where the information of ACPI Table is incorrect.
- Fixed issue where SMBIOS Structures for type 9 is incorrect.
- Fixed issue where system does not detect SATA 3.0 HDD when changing IDE/AHCI mode for DH61BE.
- Changed SVID 200C8086 for Marvell chip.
- Modified SATA layout SATA 0 and SATA 1 for DH61DL.
- Modified help text of item "Chipset SATA" in BIOS setup menu.
- Modified help text of item "Secondary SATA" in BIOS setup menu.
- Modified help text of item "Secondary SATA mode" in BIOS setup menu.
- Added the option for AHCI in the Secondary SATA Mode in BIOS setup menu.
- Updated processor support.
- Fixed issue where when hiding FSC Fan configuration settings through Intel® Integrator Toolkit, the respective settings are locked in BIOS instead of hidden.
- Changed the Bank Locator as "Channel A DIMM 0", "Channel A DIMM 1", "Channel B DIMM 0".

**About This Release:**

- May 24, 2011
- ME Firmware: Ignition SKU 7.1.13.1088
- Integrated Graphics Option ROM: Build 2111 PC 14.34 (DH61BE, DH61CR, DH61WW)
- Integrated Graphics Option ROM: Build 2111 PC 14.34 (DH61DL)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.65 PXE 2.1 Build 089

**New Fixes/Features:**

- Updated Intel® ME firmware to version 7.1.13.1088.
- Updated processor support.
- Added Performance page

- Added Fast Boot function.
- Updated vBIOS to version 2111.
- Fixed issues with Intel® Desktop Utilities:
  - BIOS incorrectly calculating Tcontrol.
  - Processor temperature thresholds higher than TCC Assertion Temperature.
  - Voltage +3.3 Volt Standby in Hardware Monitor > Summary page is showing "out of range".
  - Memory Label Designation in IDU is still showing up in older format.
  - Memory Slots Designation values are incorrect.
- Fixed issue where PCIe x1 TV tuner card is not detected in x16 slot.
- Fixed issue with smart HDD function.
- Fixed issue where monitor wakes up by On-Board/PCIe/PCI LAN and RTC from S3.

<b>BIOS Version 0020 - BEH6110H.86A.0020.2011.0218.1538</b>
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**About This Release:**

- February 18, 2011
- ME Firmware: Ignition SKU 7.0.3.1184
- Integrated Graphics Option ROM: Build 2098 PC 14.34(DH61BE, DH61CR, DH61WW)
- Integrated Graphics Option ROM: Build 2098 PC 14.34(DH61DL)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.65 PXE 2.1 Build 089

**New Fixes/Features:**

- Fixed issue where mini-PCIe card does not work in the operating system.
- Fixed issue where the no video detected error beeps occur after setting primary video adaptor to Ext PCIe graphics (PEG).
- Fixed issue with deep S4/S5 issue.
- Fixed issue with SSID/SVID issue.
- Fixed issue with power on -PXE boot test failure.
- Fixed issue where the system powers on automatically from S5 after plugging mini PCIe LAN card into the mini PCIe slot.
- Fixed issue where Platform Controller Hub Temperature in Intel® Desktop Utilities (IDU) shows 0 Celsius after the system wakes from sleep state.
- Fixed issue where a USB keyboard can't enter BIOS when USB port is disabled in BIOS.
- Removed Trusted Platform Module settings from BIOS for DH61DL.
- Removed PCI Latency Timer settings from BIOS for DH61DL.
- Fixed issue with chassis intrusion functionality.
- Updated ME Firmware to version 7.0.3.1184.
- Fixed issue with SMDXREF failure.
- Fixed issue with information shown in IDU to match board hardware.
- Fixed issue with SMBIOS System Slot Information.
- Fixed issue where PCI device shows incorrectly in "PCI/PCIe Add-in slots" item.
- Removed RAID help text in BIOS setup menu.
- Modified max memory size 16G.

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- Removed HDMI setting for DH61DL.
- Updated vBIOS version for DH61DL.
- Fixed issue with PCIE information in BIOS setup menu for DH61DL.

**BIOS Version 0016 - BEH6110H.86A.0016.2011.0118.1128**

**About This Release:**

- January 18, 2011
- ME Firmware: Ignition SKU 7.0.2.1164
- Integrated Graphics Option ROM: Build 2098 PC 14.34(DH61BE, DH61CR, DH61WW)
- Integrated Graphics Option ROM: Build 2098 PC 14.34(DH61DL)
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.65 PXE 2.1 Build 089

**New Fixes/Features:**

- Initial production BIOS release

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**LEGAL INFORMATION**

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