



Motherboard Logo Program (MLP)

**Intel® Desktop Board**

**DH61BE**

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**MLP Report**

3/24/2011

**Purpose:**

This report describes the DH61BE Motherboard Logo Program testing run conducted by Intel Corporation.

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# Introduction

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## Terms and Definitions

Term	Definitions
WHQL	Windows* Hardware Qualification Lab
WLK	Windows Logo Kits
MLP	Motherboard Logo Program. For further information see: <a href="http://www.microsoft.com/whdc/hwtest/default.msp">http://www.microsoft.com/whdc/hwtest/default.msp</a>
AP Machine	Audio Precision Machine
Winqual	Windows Qualification
MSFT Tested Product List	Tested Products List. You can view the Windows Marketplace for tested products list at: <a href="http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&amp;cid=105&amp;q=s">http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&amp;cid=105&amp;q=s</a>

# Desktop Board Configuration

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## Desktop Board DH61BE Final Configuration Report: Completion of MLP

Data in this section reflects system configuration at time of MLP submission.

### Board Information

Product Code <sup>1</sup>	BIOS String/Model	Technologies NOT Logo'd (yet)
DH61BE	BEH6110H.86A.0016.2011.0118.1128	N/A - all technologies logo'd
<b>Processor</b>		
Speed	3.30GHz	
Family	Intel Core i5 CPU 2500K	
Bus Speed	100 MHz	
<b>Motherboard</b>		
Board AA #	G14062	
Board FAB #	201 (eg. 10x for fab A, 20x for fab B and etc)	
<i>* This report applies to the production FAB revision; Please consult your Intel Corporation representative to clarify the motherboard revision you intend to perform logo testing if not the same.</i>		
<b>System Memory</b>		
Speed	Dual Channel, DDR3, 1333MHz	
Memory Type	DIMM	
Connector Type	DDR3, 240 Pin	
<b>Power Management</b>		
BIOS Default	S3	
<b>Operating System Tested</b>		
	<b>Check Tested</b>	<b>Comments</b>
Windows 7 and 64-bit	<input checked="" type="checkbox"/>	Windows 7 Ultimate
Windows Vista and 64-bit	<input checked="" type="checkbox"/>	Vista Ultimate with Service Pack 2
Windows Vista Basic and 64-bit	<input type="checkbox"/>	Vista Basic with Service Pack 2

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<sup>1</sup> These are the product names to enter in the "Submission ID of previously logo'd qualified PC system or server" field during your "System Using a Previously Logo'd Motherboard" submission to Microsoft.

## Onboard Integrated Devices and Driver for Vista 32-bit and 64-bit

Technology	OS	Version	Package version
<b>Chipset Update Utility</b> Intel® Chipset Software Utility	Windows Vista	V9.2.0.1019	INF_allIOS_9.2.0.1019_PV
	Windows Vista 64-bit	V9.2.0.1019	INF_allIOS_9.2.0.1019_PV
<b>Graphics</b> Intel® HD Graphics	Windows Vista	V8.15.10.2291	GFX_Vista32_Win7_32_8.15.10.2291_PV
	Windows Vista 64-bit	V8.15.10.2291	GFX_Vista64_Win7_64_8.15.10.2291_PV
<b>Audio</b> Realtek	Windows Vista	V6.0.1.6299	AUD_Vista_Win7_6.0.1.6299_PV
	Windows Vista 64-bit	V6.0.1.6299	AUD_Vista_Win7_6.0.1.6299_PV
<b>LAN</b> Intel® 82579V Gigabit	Windows Vista	V11.8.84.0	LAN_allIOS_11.8.84.0_PV
	Windows Vista 64-bit	V11.8.84.0	LAN_allIOS_11.8.84.0_PV
<b>MEI</b> Intel® Management Engine Interface	Windows Vista	V 7.0.0.1144	MEI_allIOS_7.0.4.1197_PV
	Windows Vista 64-bit	V 7.0.0.1144	MEI_allIOS_7.0.4.1197_PV

## Onboard Integrated Devices and Driver for Windows 7 32-bit and 64-bit

Technology	OS	Version	Package version
<b>Chipset Update Utility</b> Intel® Chipset Software Utility	Windows 7	V9.2.0.1019	INF_allIOS_9.2.0.1019_PV
	Windows 7 64-bit	V9.2.0.1019	INF_allIOS_9.2.0.1019_PV
<b>Graphics</b> Intel® HD Graphics	Windows 7	V8.15.10.2291	GFX_Vista32_Win7_32_8.15.10.2291_PV
	Windows 7 64-bit	V8.15.10.2291	GFX_Vista64_Win7_64_8.15.10.2291_PV
<b>Audio</b> Realtek	Windows 7	V6.0.1.6299	AUD_Vista_Win7_6.0.1.6299_PV
	Windows 7 64-bit	V6.0.1.6299	AUD_Vista_Win7_6.0.1.6299_PV
<b>LAN</b> Intel® 82579V Gigabit	Windows 7	V11.8.84.0	LAN_allIOS_11.8.84.0_PV
	Windows 7 64-bit	V11.8.84.0	LAN_allIOS_11.8.84.0_PV
<b>MEI</b> Intel® Management Engine Interface	Windows 7	V7.0.0.1144	MEI_allIOS_7.0.4.1197_PV
	Windows 7 64-bit	V7.0.0.1144	MEI_allIOS_7.0.4.1197_PV

## Windows Logo Kits Used (WLK)

Microsoft website: <http://www.microsoft.com/whdc/DevTools/WDK/DTM.msp>

Please check regularly for test kit updates from Microsoft. Please ensure latest filters updated prior to WHQL run.

Operating Systems	Notes	WHQL Testkit
Windows 7 Windows 7 64-bit	<a href="#">WLK1.5 for Windows 7</a>	<a href="#">WLK1.5 for Windows 7</a>
Windows Vista Windows Vista 64-bit	<a href="#">WLK1.5 for Windows Vista SP2</a>	<a href="#">WLK1.5 for Windows Vista SP2</a>

## Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	1) HDAudio Class Driver Fidelity Test - Vista (System, Manual)  2) Fidelity Test - Vista (System, Manual)  3)Class Driver Fidelity Test - Win7 (System, Manual)  4)Fidelity Test - Win7 (System, Manual)	06/01/2011	1801	Erratum	There is a test bug which causes the measurement of system noise during Render Power Transition Test to be about 3 dB worse than it should be. This filter forgives errors up to 6 dB.
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	1) HDAudio Class Driver Test - Vista or Server08 (System)  2) Class Driver AC3 Test - Win7 (System)	6/30/2025	1256	Erratum	Run AC3 test on a system with the Microsoft HD Audio class driver installed. Expected results: All AC3 kernel streaming data ranges should advertise MinimumBitsPerSample = 16 and MaximumBitsPerSample = 16. Actual results: HD Audio class driver sometimes advertises MaximumBitsPerSample = 24.
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	12/01/2012	401	Erratum	The following PCI Compliance test failure is acceptable: Bit 15 (Bridge Configuration Retry Enable) in the Device Control register (offset 8h) in the PCI Express Capability table must be read-only and always return 0 as it is reserved for devices other than PCI Express to PCI/PCI-X Bridges. Assertion 13A41D3E-2576-41DC-A67C-525DA3637CEA This failure is acceptable because this is a PCIe 1.1 feature and the WLP requires compliance with only PCIe 1.0a.
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	12/01/2012	923	Erratum	Assertion FAE18121-9177-4FB2-A081-0D04C285EFF2 Bit range 15:0 (Extended Capability ID)in the Enhanced Capability Header register (offset 0h) in the Unrecognized Enhanced Capability ID 13 table is Dh. It must be in the range [0x0 - 0xB] as all other Capability IDs are reserved.
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	12/31/2011	2051	Erratum	PCIHCT - Bit range 11:10 (ASPM Support)in the Link Capabilities register (offset Ch) in the PCI Express Capability table is 0h. It cannot be in the set of values {0x0, 0x2}. (Assertion 5CAF4993-B8D1-4E4E-99EC-CC5895364E32)



Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	1)UAA Test - Vista or Server08 (System)  2) UAA Test - Win7 (System)	6/1/2015	513	Erratum	UAA Test requires the Traffic Priority bit to be read/write - however there are two specs that apply, and they conflict. One says the bit must be read/write, the other says it must be read-only. Contact has been made with the author of both specs (Intel) but until this point is clarified we cannot fail submissions containing this test failure.
Windows Vista Windows Vista 64bit  Windows 7 Windows 7 64-bit	USB Host Controller Compliance (Automated)	6/1/2012	1787	Erratum	Errata 1787 XHCI spec compliance test is in preview For further details visit: <a href="https://winqual.microsoft.com/ec/">https://winqual.microsoft.com/ec/</a>
Windows Vista Windows Vista 64bit	GlitchFree WMV HD 720p video playback quality test	6/1/2011	2018	Erratum	The GlitchFree WMV HD 720p video playback quality test enforces SYSFUND-0062. A problem has been found in Case 3 that may cause the test to improperly fail.
Windows Vista Windows Vista 64bit	HDAudio Class Driver Fidelity Test - Vista (System, Manual)	7/31/2011	598	Erratum	EU restrictions place a cap on the output level of headphone jacks at 32 Ohm load: headphones are not allowed to have an electrical output of more than 150 mV at that load. We test headphone jacks at 300 Ohm load; the relationship between the output at 32 Ohms and the output at 320 Ohms depends on the output impedance of the headphone jack. In particular, if a headphone jack meets the EU requirement of $X \leq 150$ mV at 32 Ohms, depending on the output impedance, it could output a huge amount of power at 300 Ohms, or very slightly over $X$ mV. Since we require $X \geq 120$ mV at 32 Ohms, absent knowledge of the output impedance we can only require $X \geq 120$ mV at 300 Ohms. 120 mV is -18.42 dBV. Any headphone output level at 32 Ohms that is less than -18.42 dBV is a legitimate failure, even if it is targeted at EU compliance. Any headphone output level greater than 1 Vrms (0.707 Vrms for mobile systems) is a legitimate pass, regardless of EU compliance. This errata covers output level failures for headphone jacks between -18.42 dBV and 1 Vrms/0 dBV (0.707 Vrms/-6.93 dBV for mobile systems)) in accordance with note 6 of the WLP fidelity requirements.

## Test Notes

Operating System	Test	Description
Windows 7 and Vista	BIOS download	Internal: <a href="http://bios.intel.com/downloads/">http://bios.intel.com/downloads/</a> External: <a href="http://www.intel.com/">http://www.intel.com/</a> click on Support and Download
Windows 7 and Vista	BIOS setup	Please make sure the BIOS setting are as below, otherwise use default settings.  System Date and Time: Current date and time Peripheral Configuration: Enable all onboard component (Except CIR) Drive Configuration: Set to AHCI Chipset Configuration: Enable HPET ACPI Suspend State: Set to <S3 State> Boot Device Priority: set <Hard Disk Driver> to first  Note: Enhanced Consumer IR (CIR) component is not supported under Windows7.
Windows 7 and Vista filter update	WLK WHQL test	<a href="http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab">http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab</a>
Special H/W that use to PASS the test	None	None