

Motherboard Logo Program (MLP)

Intel® Desktop Board DH61DL

MLP Report

3/24/2011

Purpose:

This report describes the DH61DL Motherboard Logo Program testing run conducted by Intel Corporation.

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Introduction

Terms and Definitions

Term	Definitions
WHQL	Windows* Hardware Qualification Lab
WLK	Windows Logo Kits
MLP	Motherboard Logo Program. For further information see: http://www.microsoft.com/whdc/hwtest/default.mspx
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: http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&cid=105&g=s

Desktop Board Configuration

Desktop Board DH61DL Final Configuration Report: Completion of MLP

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

Board Information

Product Code ¹	BIOS String/Model	Technologies NOT Logo'd (yet)		
DH61DL	BEH6110H.86A.0020.2011.0218.1538	N/A - all technologies logo'd		
Processor				
Speed	3.30GHz			
Family	Intel Core i5 CPU 2500K			
Bus Speed	100 MHz			
Motherboard				
Board AA #	G14066			
Board FAB #	200 (eg. 10x for fab A, 20x for fab B and	etc)		
	es to the production FAB revision; Please co ion you intend to perform logo testing if no	onsult your Intel Corporation representative to clarify the of the same.		
System Memory				
Speed	Dual Channel, DDR3, 1333MHz			
Memory Type	DIMM			
Connector Type	DDR3, 240 Pin			
Power Management				
BIOS Default	BIOS Default S3			
Operating System Tested				
	Check Tested Comments			
Windows 7 and 64-bit	Windows 7 Ultimate			
Windows Vista and 64-bit	✓ Vista Ultimate with Service Pack 2			
Windows Vista Basic and 64-bit	□ Vista Basic with Service Pack 2			

¹ 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
Chipset Update Utility	Windows Vista	V9.2.0.1019	INF_allOS_9.2.0.1019_ PV
Intel [®] Chipset Software Utility	Windows Vista 64-bit	V9.2.0.1019	INF_allOS_9.2.0.1019_ PV
Graphics	Windows Vista	V8.15.10.2291	GFX_Vista32_Win7_32 _8.15.10.2291_PV
Intel [®] HD Graphics	Windows Vista 64-bit	V8.15.10.2291	GFX_Vista64_Win7_64 _8.15.10.2291_PV
Audio	Windows Vista	V6.0.1.6299	AUD_Vista_Win7_6.0.1. 6299_PV
Realtek	Windows Vista 64-bit	V6.0.1.6299	AUD_Vista_Win7_6.0.1. 6299_PV
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LAN	Windows Vista	V11.8.84.0	LAN_allOS_11.8.84.0_P V
Intel [®] 82579V Gigabit	Windows Vista 64-bit	V11.8.84.0	LAN_allOS_11.8.84.0_P V
MEI	Windows Vista	V 7.0.0.1144	MEI_allOS_7.0.4.1197_ PV
Intel [®] Management Engine Interface	Windows Vista 64-bit	V 7.0.0.1144	MEI_allOS_7.0.4.1197_ PV

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

Technology	OS Version		Package version
Chipset Update Utility	Windows 7	V9.2.0.1019	INF_allOS_9.2.0.1019_ PV
Intel [®] Chipset Software Utility	Windows 7 64-bit	V9.2.0.1019	INF_allOS_9.2.0.1019_ PV
Graphics	Windows 7	V8.15.10.2291	GFX_Vista32_Win7_32 _8.15.10.2291_PV
Intel [®] HD Graphics	Windows 7 64-bit	V8.15.10.2291	GFX_Vista32_Win7_32 _8.15.10.2291_PV
Audio	Windows 7	V6.0.1.6299	AUD_Vista_Win7_6.0.1. 6299_PV
Realtek	Windows 7 64-bit	V6.0.1.6299	AUD_Vista_Win7_6.0.1. 6299_PV
LAN	Windows 7	V11.8.84.0	LAN_allOS_11.8.84.0_P V
Intel [®] 82579V Gigabit	Windows 7 64-bit	V11.8.84.0	LAN_allOS_11.8.84.0_P V
MEI	Windows 7	V7.0.0.1144	MEI_allOS_7.0.4.1197_ PV
Intel [®] Management Engine Interface	Windows 7 64-bit	V7.0.0.1144	MEI_allOS_7.0.4.1197_ PV

Windows Logo Kits Used (WLK)

 $\label{lem:microsoft.com/whdc/DevTools/WDK/DTM.mspx} \begin{subarray}{ll} Microsoft website: $$\underline{$http://www.microsoft.com/whdc/DevTools/WDK/DTM.mspx}$ \end{subarray}$

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	WLK1.5 for Windows 7	WLK1.5 for Windows 7
Windows Vista Windows Vista 64-bit	WLK1.5 for Windows Vista SP2	WLK1.5 for Windows Vista SP2

Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Туре	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,	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	Manual) 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 7 Windows 7 64-bit	Class Driver Fidelity Test - Win7 (System, Manual)	7/31/2011	598	Erratum	The European Union requires the headphone output level to be <= 150 mVrms for headphone jacks. There's a note in WLP requirement AUDIO-0006 that states, in the presence of regional regulations, the output level requirement for headphones is dropped from >= 1000 mVrms to >= 120 mVrms. This provides freedom for manufacturers to meet both the EU <= 150 mVrms @ 32 Ohms and the WLP >= 120 mVrms @ 32 Ohms requirements.
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	06/01/2011	423	Erratum	Assertion 5CAF4993-B8D1-4E4E-99EC-CC5895364E32 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}.

Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	12/01/2012	1241	Erratum	This happens because the PCI Compliance test assumes that if the Data Link Layer Link Active Reporting Capable bit in the Link Capabilities register for a given PCIe port is set then that indicates that the Data Link Layer Link Active bit will also be set.
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 Oh. 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	1)UAA Test - Vista or Server08 (System) 2) UAA Test - Win7 (System)	1/31/2012	1299	Erratum	The HD Audio configuration default register (7.3.3.31 in the HD Audio specification) includes a "Jack Detect Override" flag that can be used to indicate that although a pin widget would normally be capable of jack detection, there is something about this particular system that causes this to be impossible.
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	1)UAA Test - Vista or Server08 (System) 2) UAA Test - Win7 (System)	6/1/2011	1300	Erratum	HD Audio pin configuration document calls out setting Port Connectivity to No Connection as the way to turn a pin off in a particular system. UAA Test incorrectly tests such pins.
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: https://winqual.microsoft.com/ec/
Windows Vista Windows Vista 64bit	Fidelity Test - Vista (System, Manual)	6/1/2011	1012	Erratum	Fidelity uses too small of a buffer and wakes up too infrequently during the System Activity test. This causes errors like: Noise level during system activity on (left or right) channel 73.2016 dB: *** FAIL *** (requirement >= 80 dB)

Test Notes

Operating System	Test	Description
Windows 7 and Vista	BIOS download	Internal: http://bios.intel.com/downloads/ External: http://www.intel.com/ 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.</hard></s3>
Windows 7 and Vista filter update	WLK WHQL test	http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab
Special H/W that use to PASS the test	None	None