

Motherboard Logo Program (MLP)

Intel® Desktop Board

DH61H0

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MLP Report

04/24/2012

**Purpose:**

This report describes the DH61H0 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.mspx">http://www.microsoft.com/whdc/hwtest/default.mspx</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 DH61H0 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)
DH61H0	H0H6110H.86A.0010.2012.0424.1632	N/A - all technologies logo'd
<b>Processor</b>		
Speed	2.30 Ghz	
Family	Intel Core I5	
Bus Speed	100 MHz	
<b>Motherboard</b>		
Board AA #	G62445-100	
Board FAB #	A	
* 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.		
<b>System Memory</b>		
Speed	Dual Channel, DDR3, 1333MHz	
Memory Type	DIMM elixir DDR3 1333/2GB	
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 Service Pack 1
Windows Vista and 64-bit	<input type="checkbox"/>	
Windows Vista Basic and 64-bit	<input type="checkbox"/>	

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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 Windows 7 32-bit and 64-bit

Technology	OS	Version	Package version
Chipset Update Utility Intel® Chipset Software Utility	Windows 7	V9.2.0.1015	INF_allIOS_9.2.0.1030_PV
	Windows 7 64-bit	V9.2.0.1015	INF_allIOS_9.2.0.1030_PV
Graphics Intel® HD Graphics	Windows 7	V8.15.10.2669	GFX_Win7Vista_15.26.6.2669_PV
	Windows 7 64-bit	V8.15.10.2669	GFX_Win7Vista_64_15.26.6.64.2669_PV
Audio Realtek	Windows 7	V6.0.1.6521	AUD_allIOS_6521_PV
	Windows 7 64-bit	V6.0.1.6521	AUD_allIOS_6521_PV
LAN Realtek	Windows 7	V7.49.927.2011	LAN_Win7_7049_PV
	Windows 7 64-bit	V7.49.927.2011	LAN_Win7_7049_PV
MEI Intel® Management Engine Interface	Windows 7	V8.0.4.1441	MEI_allIOS_8.0.4.1441_PV
	Windows 7 64-bit	V8.0.4.1441	MEI_allIOS_8.0.4.1441_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="#">WLK1.6 for Windows 7 SP1</a>	<a href="#">WLK1.6 for Windows 7 SP1</a>
Windows Vista Windows Vista 64-bit		

## Errata and Contingencies

Operating System	Falling Test	Expiry Date	ID Number	Type	Error Description
Windows 7 Windows 7 64-bit	Class Driver Fidelity Test	07/31/2015		Filter	<p>-[Filter Number:1670 Row:587 ] - 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.</p> <p>We test headphone jacks at 300 Ohm load; the relationship between the output at 32 Ohms and the</p>

					<p>output at 320 Ohms depends on the output impedance of the headphone jack.</p> <p>In particular, if a headphone jack meets the EU requirement of <math>X \leq 150</math> mV at 32 Ohms, depending on the output impedance, it could output a huge amount of power at 300 Ohms, or very slightly over <math>X</math> mV. Since we require <math>X \geq 120</math> mV at 32 Ohms, absent knowledge of the output impedance we can only require <math>X \geq 120</math> mV at 300 Ohms.</p> <p>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.</p> <p>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.</p>
Windows 7 Windows 7 64-bit	PCI HW compliance Test	12/01/2012		Filter	<ol style="list-style-type: none"> <li>1. Data Link Layer Link Active Reporting Capable bit is set but Data Link Layer Link Active is not.</li> <li>2. -[Filter Number:385 Row:530 ] - 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.</li> </ol>
Windows 7 Windows 7 64-bit	Signed Driver Check test	12/01/2012		Filter	-[Filter Number:2701 Row:43 ] - If a driver is found to be signed by Microsoft that is tested with the chklogo test, the message, ERROR: No Logo Level Attribute on file., is an invalid failure if followed by, This file has a 0 level Logo and followed by, Cannot match the device ID of the driver the device was test within an individual assertion.
Windows 7 Windows 7 64-bit	UAA	06/01/2015		Filter	-[Filter Number:1394 Row:561 ] - 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.

## Test Notes

Operating System	Test	Description
Windows 7	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	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 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
Windows 7 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