



Motherboard Logo Program (MLP)

Intel® Desktop Board

DH61SK

MLP Report

4/6/2012

Purpose:

This report describes the DH61SK Motherboard Logo Program testing run conducted by Intel Corporation.

THIS TEST REPORT IS PROVIDED "AS IS" WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY WARRANTY OTHERWISE ARISING OUT OF ANY PROPOSAL, SPECIFICATION OR SAMPLE.

Information in this document is provided in connection with Intel products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by the sale of Intel products. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications.

Intel retains the right to make changes to its test specifications at any time, without notice.

The hardware vendor remains solely responsible for the design, sale and functionality of its product, including any liability arising from product infringement or product warranty.

Intel® Core™ i7 and Intel® are trademarks of Intel Corporation in the U.S. and other countries.

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

Copyright © 2009, Intel Corporation. All rights reserved.

Contents

Introduction	4
Terms and Definitions.....	4
Desktop Board Configuration	5
Desktop Board DH61SK Final Configuration Report: Completion of MLP.....	5
Board Information.....	5
Product Code.....	5
Processor	5
Motherboard	5
System Memory.....	5
Power Management.....	5
Operating System Tested.....	5
Onboard Integrated Devices and Driver for Vista 32-bit and 64-bit	6
Onboard Integrated Devices and Driver for Windows 7 32-bit and 64-bit.....	7
Windows Logo Kits Used (WLK)	7
Errata and Contingencies	8
Test Notes.....	10

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&q=s

Desktop Board Configuration

Desktop Board DH61SK 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)
DH61SK	SKH6110H.86A.0005.2011.0818.1528	N/A - all technologies logo'd
Processor		
Speed	3.40GHz	
Family	Intel Core i7 CPU 2600K	
Bus Speed	100 MHz	
Motherboard		
Board AA #	G35198-100	
Board FAB #	100	
<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>		
System Memory		
Speed	Dual Channel, DDR3, 1333MHz	
Memory Type	DIMM	
Connector Type	DDR3, 240 Pin	
Power Management		
BIOS Default	S3	
Operating System Tested		
	Check Tested	Comments
Windows 7 and 64-bit	<input checked="" type="checkbox"/>	Windows 7 Ultimate Service Pack 1
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

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 Intel® Chipset Software Utility	Windows Vista	V9.2.0.1030	INF_allIOS_9.2.0.1030_PV
	Windows Vista 64-bit	V9.2.0.1030	INF_allIOS_9.2.0.1030_PV
Graphics Intel® HD Graphics	Windows Vista	V8.15.10.2462	GFX_Win7Vista_12966_1_PV
	Windows Vista 64-bit	V8.15.10.2462	GFX_Win7Vista_64_129661_PV
Audio Realtek	Windows Vista	V6.0.1.6438	AUD_Vista_Win7_6.0.1.6438_PV
	Windows Vista 64-bit	V6.0.1.6438	AUD_Vista_Win7_6.0.1.6438_PV
LAN Realtek	Windows Vista	V6.247.222.2011	LAN_Vista_6247_052_02011_PV
	Windows Vista 64-bit	V6.247.222.2011	LAN_Vista_6247_052_02011_PV
MEI Intel® Management Engine Interface	Windows Vista	V7.0.0.1118	MEI_allIOS_7.0.4.1197_PV
	Windows Vista 64-bit	V7.0.0.1118	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
Chipset Update Utility Intel® Chipset Software Utility	Windows 7	V9.2.0.1030	INF_allIOS_9.2.0.1030_PV
	Windows 7 64-bit	V9.2.0.1030	INF_allIOS_9.2.0.1030_PV
Graphics Intel® HD Graphics	Windows 7	V8.15.10.2462	GFX_Win7Vista_129661_PV
	Windows 7 64-bit	V8.15.10.2462	GFX_Win7Vista_64_129661_PV
Audio Realtek	Windows 7	V6.0.1.6438	AUD_Vista_Win7_6.0.1.6438_PV
	Windows 7 64-bit	V6.0.1.6438	AUD_Vista_Win7_6.0.1.6438_PV
LAN Realtek	Windows 7	V7.46.610.2011	LAN_win7_6247_05202011_PV
	Windows 7 64-bit	V7.46.610.2011	LAN_win7_6247_05202011_PV
MEI Intel® Management Engine Interface	Windows 7	V7.0.0.1118	MEI_allIOS_7.0.4.1197_PV
	Windows 7 64-bit	V7.0.0.1118	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	WLK1.6 for Windows 7 SP1	WLK1.6 for Windows 7 SP1
Windows Vista Windows Vista 64-bit	WLK1.6 for Windows Vista SP2	WLK1.6 for Windows Vista SP2

Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
Windows 7	1) Fidelity Test - Win 7 (System, Manual)	06/01/2015	1424	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)
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	1) HDAudio Class Driver Test - Vista or Server08 (System)	06/01/2013	142	Erratum	HDMI is required to support 44.1 kHz on Windows 7 The Windows Vista HD Audio class driver does not support 44.1 kHz sample rates. There is an errata to cover this violation of AUDIO-0023. It was mistakenly applied to third-party drivers. As of Windows 7, the Windows Vista HD Audio class driver supports 44.1 kHz sample rates on hardware that advertises support for it. AUDIO-0023 is applicable. This is a filter to allow vendors to ship with systems that violated AUDIO-0023 but were incorrectly filtered by the Vista filter. Hardware that does not support 44.1 needs to be updated to support 44.1, and advertise that support in a way that the Microsoft HD Audio class driver can pick up on. Third-party drivers need to relay this support to the OS correctly.
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	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 7 Windows 7 64-bit	UAA Test - Win7 (System)	06/01/2013	1299	Erratum	Preview filter - Jack Detect Override on digital pin widgets Errata 1299 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. This was intended to be used, for example, for analog pin widgets that are connected to RCA jacks, which do not allow for impedance detection. Some digital pin widgets are using the Presence Detect pin sense response to indicate that a digital handshake has occurred - indeed, HDMI pins have entire DCNs built around this concept, and it applies equally well to S/PDIF pins. A digital converter that supports presence detection should be able to do so in any system, so the "Jack Detect Override" concept should not apply to digital pins.
Windows 7 Windows 7 64-bit	UAA Test - Win7 (System)	6/1/2015	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 This Preview Test is being filtered until the expiration date of this Errata. After the expiration date of this filter these failures must be fixed to have a passing submission. Microsoft strongly recommends that these errors be investigated prior to this test or job being required for submission. XHCI spec compliance test is in preview
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	Signed Driver Check (Manual)	12/01/2012	3057	Erratum	ERROR: Cannot match Hardware ID USB\VID_1106&PID_3432&REV_0001 with the device ID of the device for which driver file wdfcoinstaller01009.dll was tested with ERROR: Cannot match Hardware ID VUSB\VID_2109&PID_0811&REV_2000 with the device ID of the device for which driver file wdfcoinstaller01009.dll was tested with This error is an acceptable failure.

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 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 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