Motherboard Logo Program (MLP)

Intel® Desktop Board

DH55HC

MLP Report

12/1/2009

Purpose:

This report describes the DH55HC Motherboard Logo Program testing run conducted by Intel Corporation.

Contents

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 DH55HC 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)
DH55HC	TCIBX10H.86A.0026.2009.1113.1720	N/A - all technologies logo'd
Processor		
Speed	3.46GHz	
Family	Intel® Core(TM) i5 670	
Bus Speed	1333Mhz	
Motherboard		
Board AA #	E70933	
Board FAB #	400	
* 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.		
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	☑	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

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[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
Chipset Update Utility Intel® Chipset Software Utility	Windows Vista	9.1.1.1015
	Windows Vista 64-bit	9.1.1.1015
Graphics Intel® Graphics Media Accelerator	Windows Vista	8.15.10.1968
	Windows Vista 64-bit	8.15.10.1968
Audio Realtek	Windows Vista	6.0.1.5958
	Windows Vista 64-bit	6.0.1.5958
LAN Intel	Windows Vista	11.2.19.0
	Windows Vista 64-bit	11.2.19.0
MEI Intel	Windows Vista	6.0.0.1179
	Windows Vista 64-bit	6.0.0.1179

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

Technology	OS	Version
Chipset Update Utility Intel® Chipset Software Utility	Windows 7	9.1.1.1015
	Windows 7 64-bit	9.1.1.1015
GFX Intel® Graphics Media Accelerator	Windows 7	8.15.10.1968
	Windows 7 64-bit	8.15.10.1968
Audio Realtek	Windows 7	6.0.1.5958
	Windows 7 64-bit	6.0.1.5958
LAN Intel	Windows Vista	11.2.19.0
	Windows Vista 64-bit	11.2.19.0
MEI Intel	Windows Vista	6.0.0.1179
	Windows Vista 64-bit	11.2.19.0

Windows Logo Kits Used (WLK)

Microsoft website: http://www.microsoft.com/whdc/DevTools/WDK/DTM.mspx

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

Operating Systems	Notes	WHQL Testkit
Windows Vista Windows Vista 64-bit	WLK1.4 for Windows Vista SP2	WLK1.4 for Windows Vista SP2
Windows 7 Windows 7 64-bit	WLK1.4 for Windows 7	WLK1.4 for Windows 7

Errata and Contingencies

Operating System	Failing Test	Expiry date	ID Number	Type	Error Description
Windows Vista Windows Vista 64	Fidelity Test-Vista (System, Manual)	8/8/2010	1238	Erratum	Fidelity Render Power Transition test
	GlitchFree WMV HD 720p video playback quality test	2/8/2010	1245		GlitchFree WMV HD 720p video playback quality test cases 2 & 3 Preview for 6 months post WLK1.4 release
	HDAudio Class Driver Fidelity Test-Vista(System, Manual)	8/8/2010	1238		Fidelity Render Power Transition test
		2/8/2010	598		Fidelity Test: European Union requirement for headphone Output Level false-failed.
	HDAudio Class Driver Test -Vista or Server08(System)	6/1/2010	142		PREVIEW FILTER - HDMI is required to support 44.1 kHz on Windows 7
		6/1/2010	1256		AC3 Test: HD Audio class driver exposes MaximumBitsPerSample = 24, should be 16
	PCI Hardware Compliance Test For System	6/1/2010	1241		PCI Compliance - Data Link Layer Link Active Reporting Capable bit is set but Data Link Layer Link Active is not. Assertion 0E36472A-0EDB-4685-A67D-7AF1FFBFA81B
		2/8/2010	401		PCI Compliance - 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.
	UAA Test--Vista or Server08(System)	7/1/2011	1466		UAA Test: Preview Filter - Intel Low Power DCN says "EPSS implies KeepAlive, but only after July 1st 2011"
		6/1/2010	1299		UAA Test: Some digital pin widgets incorrectly set Jack Detect Override
		6/1/2010	1288		UAA Test: preview filter for Encoded Packet Type validation
		6/1/2010	1351		UAA Test false-fails codecs in D3 Cold that don't respond to both halves of double-function-group reset
		6/1/2010	513		UAA Test (System) fails Intel HD Audio controller whose Traffic Priority bit is not read/write.
	Wave Test -Vista or Server08(System)	6/1/2010	1281		WaveTest false-fails user-disabled endpoints like CD In, Stereo Mix, etc.

Operating System	Failing Test	Expiry date	ID Number	Type	Error Description
Windows 7 Windows 7 64	Class Driver AC3 Test - Win7 (System)	6/1/2010	1256	Erratum	AC3 Test: HD Audio class driver exposes MaximumBitsPerSample = 24, should be 16
	Class Driver Fidelity Test - Win7 (System, Manual)	8/8/2010	1238		Fidelity Render Power Transition test
		2/8/2010	598		Fidelity Test: European Union requirement for headphone Output Level false-failed.
	PCI Hardware Compliance Test For Systems	6/1/2010	1241		PCI Compliance - Data Link Layer Link Active Reporting Capable bit is set but Data Link Layer Link Active is not. Assertion 0E36472A-0EDB-4685-A67D-7AF1FFBFA81B
		2/8/2010	401		PCI Compliance - 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.
	UAA Test - Win7 (System)	7/1/2011	1466		UAA Test: Preview Filter - Intel Low Power DCN says "EPSS implies KeepAlive, but only after July 1st 2011"
		6/1/2010	1299		UAA Test: Some digital pin widgets incorrectly set Jack Detect Override
		6/1/2010	1288		UAA Test: preview filter for Encoded Packet Type validation
		6/1/2010	1351		UAA Test false-fails codecs in D3 Cold that don't respond to both halves of double-function-group reset
		8/9/2010	1348		UAA Test digital converter channel to HDMI slot mapping failures
		2/8/2010	1198		UAA Test Preview errata: S/PDIF pin "Pin Sense" responses cannot use "Impedance" bits
		6/1/2010	513		UAA Test (System) fails Intel HD Audio controller whose Traffic Priority bit is not read/write.
	Wave Test - Win7 (System)	6/1/2010	1281		WaveTest false-fails user-disabled endpoints like CD In, Stereo Mix, etc.

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 IDE 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