



Motherboard Logo Program (MLP)

Intel® Desktop Board

DH77EB

MLP Report

1/18/2012

Purpose:

This report describes the Board DH77EB 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&q=s

Desktop Board Configuration

Desktop Board DH77EB 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)
DH77EB	EBH7710H.86A.0041.2012.0106.1902	N/A - all technologies logo'd
Processor		
Speed	3.5GHz	
Family	Intel® Core i7-3770K	
Bus Speed	1333 MHz	
Motherboard		
Board AA #	G39073	
Board FAB #	302	
* 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, 1600MHz	
Memory Type	DIMM	
Connector Type	DDR3, 240 Pin	
Power Management		
BIOS Default	S3	
Operating System Tested		
	Check Tested	Comments
Windows 7 32 and 64-bit	<input checked="" type="checkbox"/>	Windows 7 Ultimate with Service Pack 1

Onboard Integrated/Add-in 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	9.3.0.1019	9.3.0.1019
	Windows 7 64-bit	9.3.0.1019	9.3.0.1019

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.

On-board Graphic Intel HD Graphic 4000	Windows 7	8.15.10.2598	15.26.0.2598
	Windows 7 64-bit	8.15.10.2598	15.26.64.2598
On-board Audio Realtek High Definition Audio	Windows 7	6.0.1.6526	6526
	Windows 7 64-bit	6.0.1.6526	6526
LAN Intel 82579V Gigabit Network Connection	Windows 7	11.15.12.0	11.15.12.0
	Windows 7 64-bit	11.15.12.0	11.15.12.0
ME Intel Management Engine Interface	Windows 7	8.0.0.1262	8.0.0.1262
	Windows 7 64-bit	8.0.0.1262	8.0.0.1262
USB 3.0 Intel USB3.0	Windows 7	1.0.0.199	1.0.0.199
	Windows 7 64-bit	1.0.0.199	1.0.0.199
CIR Nuvoton W836x7HG	Windows 7	2.2.2011.128	2.2.2011.128
	Windows 7 64-bit	2.2.2011.128	2.2.2011.128
IRST Intel H77	Windows 7	11.0.0.1032	11.0.0.1032
	Windows 7 64-bit	11.0.0.1032	11.0.0.1032

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

Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
windows 7 windows 7 - 64bit	PCI Hardware Compliance Test For Systems	12/01/2012	401	Erratum	Issue Description: 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 7 windows 7 - 64bit	UAA Test - Win7 (System)	06/01/2015	513	Erratum	Issue Description: 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 - 64bit	UAA Test - Win7 (System)	06/01/2015	2190	Erratum	Issue Description: 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 7 windows 7 - 64bit	UAA Test - Win7 (System)	06/01/2013	Filter 3276	Erratum	Issue Description: HDMI audio devices are backed by video pipes; if a graphics subsystem exposes three output ports, but only has two video pipes, it is not possible to get all three HDMI audio endpoints "active" simultaneously.
windows 7 windows 7 - 64bit	UAA Test - Win7 (System)	03/31/2012	Filter 4119	Contingencies	Issue Description: Specific codecs do not correctly support Input Enable and Output Enable pin widget controls. This results in an attempt to shut off the pin, and it doesn't shut off. The Microsoft audio class driver has other ways of making sure the pins don't make sound, which happen to work for these specific codecs.
windows 7 windows 7 - 64bit	Class Driver AC3 Test - Win7 (System)	06/30/2025	1256	Erratum	Issue Description: 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 - 64bit	Class Drive Fidelity Test - Win7 (System, Manual)	7/31/2015	598	Erratum	Issue Description: 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. The Fidelity Test tests headphones at 300 Ohm load, though. Without knowledge of the output impedance at the jack, the test cannot extrapolate what the output level at 32 Ohms would have been from the output level at 300 Ohms. The test assumes that the output level at 32 Ohms will be *less* than the output level at 300 Ohms, though. So any measurement >= 120 mVrms at 300 Ohms "could be" a passing result, depending on the output impedance.
Windows 7	Fidelity Test - Win7 (System, Manual)	6/01/2015	1012	Erratum	Issue Description: 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 7 Windows7 - 64bit	Signed Driver Check (Manual)	12/01/2012	2346	Erratum	Issue Description: The Signed Driver Check test may improperly fail with messages related to the subsystem vendor ID of the integrated device. This test assertion check for subsystem vendor IDs is being removed from the next version of the test so we are no longer requiring these test assertions to pass. This does not affect other checks within the test and errors such as oemx.inf is not signed are required to be fixed and pass.
Windows 7 Windows7 - 64bit	USB Host Controller Compliance (Automated)	12/01/2012	1787	Erratum	Issue Description: 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

Test Notes

Operating System	Test	Description
Windows 7	BIOS download	Internal: http://bios.intel.com/downloads/ External: http://www.intel.com/ 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 Enhance Consumer IR: Enable Others: BIOS default setting
Windows 7 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

