



Windows Hardware Certification (WHC)

Intel® Desktop Board

DH77EB

Desktop/Motherboard WHC Report

10/18/2012

Purpose:

This report describes the Windows Hardware Certification testing run conducted by Intel Corporation.

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Introduction

Terms and Definitions

Term	Definitions
WHQL	Windows* Hardware Qualification Lab
WHCK	Windows Hardware Certification kit
PLMP	Previously Logo'd Motherboard 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 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)
DH77EB	EBH7710H.86A.0093.2012.0905.1634	N/A - all technologies logo'd
Processor		
Speed	3.50 GHz	
Family	Intel® Core™ I7-3770K	
Bus Speed	35x	
Motherboard		
Board AA #	G39073	
Board FAB #	304	
* 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 Channels, DDR3, 1600MHz	
Memory Type	DIMM	
Connector Type	DDR3,240pin	
Power Management		
BIOS Default	S3	
Operating System Tested		
	Check Tested	Comments
Windows 8 64bit	<input checked="" type="checkbox"/>	Windows 8 enterprise

Onboard Integrated Devices and Driver for Windows 8 64-bit

Technology	OS	Version	Package version
Chipset Update Utility Intel® Chipset Software Utility	Windows 8 64-bit	9.3.0.1021	9.3.0.1021
Graphics Intel® HD Graphic 4000	Windows 8 64-bit	9.17.10.2817	15.28.2.64.2817

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.

Intel Display Audio Intel® Display Audio	Windows 8 64-bit	6.14.0.3097	15.28.2.64.2817
Audio Realtek High HD Audio	Windows 8 64-bit	6.0.1.6710	R270
LAN Intel® Gigabite Network Connections	Windows 8 64-bit	12.0.150.0	PV17.3
IRST Intel® Rapid Storage Technology	Windows 8 64-bit	11.5.1207	11.5.1207
Rapidstart Intel Rapidstart	Windows 8 64-bit	2.1.0.1002	2.1.0.1002
CIR Nuvoton	Windows 8 64-bit	2.3.2012.710	2.6.1004
MEI Intel® Management Engine Interface	Windows 8 64-bit	8.1.0.1263	8.1.0.1248

Windows Hardware Certification Certification Kit (WHCK) Used (formerly WLK)

Microsoft website:

WLK: <http://www.microsoft.com/whdc/DevTools/WDK/DTM.msp>

WHCK: <http://msdn.microsoft.com/id-ID/windows/hardware/hh852359>

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

Operating Systems	Notes	WHQL Test kit
Windows 8 64-bit	WHCK 2.0 for Windows 8	WHCK 2.0 for Windows 8

Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
Windows 8 64-bit	1. Class Driver Round Trip Test (System, Manual) 2. Round Trip Test (System, Manual)	7/31/2013	917	Erratum	There is a regression in the way RoundTrip captures audio for the In-Air tests. The tests are failing due to this regression as no data is being captured.
Windows 8 64-bit	Signed Driver Check (CheckLogo)	12/2/2012	361	Erratum	Signed Driver Check (CheckLogo) will fail on Button.sys. This binary is installed with the Hardware Certification Kit (HCK) and can have signatures that can't be validated with the Driver Certification Pre-validation assessment.
Windows 8 64-bit	UAA Test (System)	12/2/2012	235	Erratum	UAA test was modified to turn warnings into errors for reserved bits being non-zero. This is a preview filter to allow IHVs to fix the issue.
Windows 8 64-bit	UAA Test (System)	7/2/2013	372	Contingency	Section 3.3.14 of the Intel High Definition Audio specification mandates a reset value of 0 for the Interrupt Control register on HD Audio controllers. Some Intel HD Audio controllers have bit 30 (Controller Interrupt Enable) and/or bit 31 (Global Interrupt Enable) set to 1 after a reset.
Windows 8 64-bit	UAA Test (System)	7/1/2013	244	Contingency	Section 3.3.14 of the Intel High Definition Audio specification mandates a reset value of 0 for the Interrupt Control register on HD Audio controllers.
Windows 8 64-bit	UAA Test (System)	7/1/2014	354	Contingency	The FIFO size for Input and Output Stream Descriptors should be read only.
Windows 8 64-bit	xHCI Debug Capability Compliance (Logo)	12/31/2013	479	Contingency	The xHCI Debug Capability Compliance Test will fail xHCI controllers that do not provide the debug capability registers.

Test Notes

Operating System	Test	Description
Windows 8	BIOS download	Internal: http://bios.intel.com/downloads/ External: http://www.intel.com/ click on Support and Download
Windows 8	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 ACPI Suspend State: Set to <S3 State> Boot Device Priority: set <Hard Disk Driver> to first Parallel port: Disable Enhance Consumer IR: Enable Intel Rapidstart: Enable UEFI Boot: Enabled
Windows 8 filter update	WHCK WHQL test	https://sysdev.microsoft.com/member/SubmissionWizard/LegalExemptions/HCKFilterUpdates.cab
Special H/W that use to PASS the test	None	None