



Windows Hardware Certification (WHC)

Intel® Desktop Board DQ77KB

Desktop/Motherboard WHC Report

10/31/2012

Purpose:

This report describes the DQ77KB 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
MLP	Motherboard Logo Program. For further information see: http://msdn.microsoft.com/en-us/windows/hardware/gg463010.aspx
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 DQ77KB Final Configuration Report: Completion of WHC

Data in this section reflects system configuration at time of WHC submission.

Board Information

Product Code ¹	BIOS String/Model	Technologies NOT Logo'd (yet)
DQ77KB	KBQ7710H.86A.0044.2012.1019.1704	N/A - all technologies logo'd
Processor		
Speed	2.9GHz	
Family	Intel Core i5-3470T	
Bus Speed	100 MHz	
Motherboard		
Board AA #	G40294	
Board FAB #	201 (eg. 10x for fab A, 20x for fab B and etc)	
<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, 1600MHz	
Memory Type	DIMM	
Connector Type	DDR3, 204 Pin	
Power Management		
BIOS Default	S3	
Operating System Tested		
	Check Tested	Comments
Windows 8 64-bit	<input checked="" type="checkbox"/>	Windows 8 Professional
Windows 7 and 64-bit	<input type="checkbox"/>	Windows 7 Ultimate Service Pack 1
Windows Vista and 64-bit	<input 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 Windows 8 64-bit

Technology	OS	Version	Package version
Chipset Update Utility Intel® Chipset Software Utility	Windows 8 64-bit	V9.3.0.1025	INF_allIOS_9.3.0.1025_PV
Graphics Intel® HD Graphics 4000	Windows 8 64-bit	V9.17.10.2867	GFX_Win8_64_9.17.10.2867_PV
Audio Realtek	Windows 8 64-bit	V6.0.1.6662	AUD_Win7_Win8_6.0.1.6662_PV
LAN Intel® 82574L Gigabit	Windows 8 64-bit	V12.1.77.0	LAN_Win8_12.2.45.0_PV
LAN Intel® 82579LM Gigabit	Windows 8 64-bit	V12.2.45.0	LAN_Win8_12.2.45.0_PV
MEI Intel® Management Engine Interface	Windows 8 64-bit	V8.1.0.1263	ME_5M_Win8_8.1.2.1318_HF2
USB 3.0 Intel® USB 3.0 Extensible Host Controller	Windows 8 64-bit	V6.2.9200.16384	MS In box Driver

Windows Hardware Certification Kit Used (WHCK)

Microsoft website: <http://msdn.microsoft.com/library/windows/hardware/hh833788>

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

Operating Systems	Notes	WHQL Testkit
Windows 8 64-bit	WHCK for Windows 8	WHCK for Windows 8

Errata and Contingencies

Operating System	Falling Test	Expiry Date	ID Number	Type	Error Description
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

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 (Except CIR) 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 Note: Enhanced Consumer IR (CIR) component is not supported under Windows7.
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