



Windows Hardware Certification (WHC)

Intel® Desktop Board

DQ77MK

Desktop/Motherboard WHC Report

11/8/2012

Purpose:

This report describes the DQ77MK 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 DQ77MK 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)
DQ77MK	MKQ7710H.86A.0052.2012.1019.1745	N/A - all technologies logo'd
Processor		
Speed	3.5GHz	
Family	Intel Core i7-3770K	
Bus Speed	100 MHz	
Motherboard		
Board AA #	G39642	
Board FAB #	500 (eg. 10x for fab A, 20x for fab B and etc)	
* 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 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	Failing Test	Expiry Date	ID Number	Type	Error Description
Windows 8 64-bit	System Network Device Power Requirement(NDISTest 6.5 PM_Requirements)	6/30/2014	390	Contingency	CONTINGENCY:{Device.Network.LAN.PM.PowMgmtNDIS] - The devices failing the test are legacy silicon that was shipping before the Logo requirements above were introduced during the Windows 7 OS release. The failing test is "NDISTest 6.5 - [1 Machine] - PM_Requirements" and the failure is that it does not indicate support for ARP/NS offloads, and minimum requirement for WoL patterns.
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 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 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