

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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Contents

Introduction	4
Terms and Definitions	
Desktop Board Configuration	5
Desktop Board DQ77MK Final Configuration Report: Completion of WHC	5
Board Information	5
Product Code	5
Processor	5
Motherboard	5
System Memory	5
Power Management	
Operating System Tested	5
Onboard Integrated Devices and Driver for Windows 8 64-bit	
Windows Hardware Certification Kits Used (WHCK)	
Errata and Contingencies	
Test Notes	8

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&g=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	THEQ 7 TO THOU MOUSE LEGICATE. TO 15.17 15			
Speed	3.5GHz			
Family	Intel Core i7-3770K			
Bus Speed	100 MHz			
Motherboard	7.001.11.12			
Board AA #	G39642			
Board FAB #	500 (eg. 10x for fab A, 20x for fab B and	etc)		
		nsult your Intel Corporation representative to clarify the		
System Memory				
Speed	Dual Channel, DDR3, 1600MHz			
Memory Type	DIMM			
Connector Type	DDR3, 240 Pin			
Power Management				
BIOS Default	BIOS Default S3			
Operating System	Operating System Tested			
	Check Tested	Comments		
Windows 8 64- bit	Ø	Windows 8 Professional		
Windows 7 and 64-bit		Windows 7 Ultimate Service Pack 1		
Windows Vista and 64-bit		Vista Ultimate with Service Pack 2		
Windows Vista Basic and 64-bit		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_allOS_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 [®] 82574LGigabit	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_8.1.2.13 18_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	Туре	Error Description
Windows 8 64-bit	System Network Device Power Requirement(NDISTe st 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</hard></s3>
Windows 8 filter update	WHCK WHQL test	https://sysdev.microsoft.com/member/SubmissionWizard/LegalExemptions/HC KFilterUpdates.cab
Special H/W that use to PASS the test	None	None