



Windows Hardware Certification (WHC)

Intel® Desktop Board QS77GK-IS

Desktop/Motherboard WHC Report

12/4/2012

Purpose:

This report describes the QS77GK-IS 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/zh-Tw/library/windows/hardware/gg463010
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 QS77GK-IS 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)
QS77GK-IS	GKPPT10H.86A.0032.2012.1127.1710	N/A - all technologies logo'd
Processor		
Speed	1.80GHz	
Family	Intel® Core™ i3-3217U	
Bus Speed	100 MHz	
Motherboard		
Board AA #	G69977-300	
Board FAB #	A	
* 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, 1333MHz	
Memory Type	DIMM Unifosa DDR3 1333/2GB	
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

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	V9.3.0.1021	V9.3.0.1021
Graphics Intel® HD Graphics	Windows 8 64-bit	V9.17.10.2867	9.17.10.2867
Audio	NS	NS	NS
LAN Intel	Windows 8 64-bit	V12.0.150.0	V17.2
MEI Intel® Management Engine Interface	Windows 8 64-bit	V8.1.0.1263	V8.1.0.1248

Windows Hardware Certification Kit Used (WHCK)

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 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	AutoMemoryBenchmark	01/02/2013	131	Erratum	Certain test cases in the AutoMemoryBenchmark test will be deferred for a period of 4 months. The failures are identified by the following: Test title: Memory_Idle or, Memory_DX10Device or, Memory_DX10VB or, Memory_DX10Texture or, Memory_DX10Surfaces or, Memory_DX10Upload or, And Error message: Metric goal not met
Windows 8 64-bit	AutoMemoryBenchmark	01/02/2013	1092	Erratum	Certain test cases in the AutoMemoryBenchmark test will be deferred for a period of 4 months. The failures are identified by the following: Test title: Memory_Idle or, Memory_DX10Device or, Memory_DX10VB or, Memory_DX10Texture or, Memory_DX10Surfaces or, Memory_DX10Upload or, And Error message: Metric goal

					not met
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
Windows 8	WHCK WHQL test	https://sysdev.microsoft.com/member/SubmissionWizard/LegalExemptions/HCKFilterUpdates.cab
Special H/W that use to PASS the test	None	None