



Windows Hardware Certification (WHC)

# Intel® Desktop Board QS77GK-IS

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## 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

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## Terms and Definitions

Term	Definitions
WHQL	Windows* Hardware Qualification Lab
WHCK	Windows Hardware Certification Kit
MLP	Motherboard Logo Program. For further information see: <a href="http://msdn.microsoft.com/zh-Tw/library/windows/hardware/gg463010">http://msdn.microsoft.com/zh-Tw/library/windows/hardware/gg463010</a>
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: <a href="http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&amp;cid=105&amp;g=s">http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&amp;cid=105&amp;g=s</a>

# Desktop Board Configuration

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## 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 <sup>1</sup>	BIOS String/Model	Technologies NOT Logo'd (yet)
QS77GK-IS	GKPPT10H.86A.0032.2012.1127.1710	N/A - all technologies logo'd
<b>Processor</b>		
Speed	1.80GHz	
Family	Intel® Core™ i3-3217U	
Bus Speed	100 MHz	
<b>Motherboard</b>		
Board AA #	G69977-300	
Board FAB #	A	
<a href="#">* 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.</a>		
<b>System Memory</b>		
Speed	Dual Channel, DDR3, 1333MHz	
Memory Type	DIMM Unifosa DDR3 1333/2GB	
Connector Type	DDR3, 240 Pin	
<b>Power Management</b>		
BIOS Default	S3	
<b>Operating System Tested</b>		
	<b>Check Tested</b>	<b>Comments</b>
Windows 8 64-bit	<input checked="" type="checkbox"/>	Windows 8 Professional

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<sup>1</sup> 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	<a href="#">WHCK for Windows 8</a>	<a href="#">WHCK for Windows 8</a>

## 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: <a href="http://bios.intel.com/downloads/">http://bios.intel.com/downloads/</a> External: <a href="http://www.intel.com/">http://www.intel.com/</a> 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	<a href="https://sysdev.microsoft.com/member/SubmissionWizard/LegalExemptions/HCKFilterUpdates.cab">https://sysdev.microsoft.com/member/SubmissionWizard/LegalExemptions/HCKFilterUpdates.cab</a>
Special H/W that use to PASS the test	None	None