Windows Hardware Certification (WHC)

Intel® Desktop Board DX79SI

Desktop/Motherboard WHC Report

2/21/2013

Purpose:

This report describes the DX79SI Motherboard Logo Program testing run conducted by Intel Corporation.

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Contents

Introduction 4
Terms and Definitions 4
Desktop Board Configuration 5
Desktop Board DX79SI Final Configuration Report: Completion of WHC 5
Board Information 5
Product Code 5
Processor 5
Motherboard 5
System Memory 5
Power Management 5
Operating System Tested 5
Onboard Integrated Devices and Driver for Windows 8 64-bit 6
Windows Hardware Certification Kit Used (WHCK) 6
Errata and Contingencies 7
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 DX79SI 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)
DX79SI	SIX7910D.86A.1777.2013.0204.1605	N/A - all technologies logo'd
Processor		
Speed	3.30GHz	
Family	Core i7 3960X	
Bus Speed	100 MHz	
Motherboard		
Board AA #	G28808	
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, 1333MHz	
Memory Type	DIMM	
Connector Type	DDR3, 240 Pin	
Power Management		
BIOS Default	S3	
Operating System Tested		
	Check Tested	**Comments**
Windows 8 64-bit	☑	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**	V9.2.3.1023	INF_allOS_9.2.3.1023_PV
Graphics Nvidia GeForce GTX 275	**Windows 8 64-bit**	V9.18.13.1090	310.90-desktop-win8-win7-winvista-64bit-english-whql
Audio Realtek	**Windows 8 64-bit**	V6.0.1.6804	AUD_allOS_6.0.1.6804_PV
LAN Intel® 82579LM Gigabit	**Windows 8 64-bit**	V12.2.45.0	PROWin8_64_v17.3
LAN Intel® 82574L Gigabit	**Windows 8 64-bit**	V12.1.77.0	PROWin8_64_v17.3
MEI Intel® Management Engine Interface	**Windows 8 64-bit**	V8.1.0.1263	MEI_Win8_8.1.10.1286_PV

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	Single Computer Display Object test	08/01/2013	884	Erratum	AllInOne desktop computers have the "Computer.AllInOne" form factor. For this form factor, the test should recognize the mouse and keyboard to be external to the main computer machine. Without this filter it expects the mouse/keyboard to be part of the computer which may not be the case. t.
Windows 8 64-bit	Signed Driver Check (CheckLogo)	03/02/2013	361	Erratum	Signed Driver Check (CheckLogo) will fail on Button.sys. This binary is installed with the Hardware Certification Kit (HCK) and can have signatures that can't be validated with the Driver Certification Pre-validation assessment.
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.
Windows 8 64-bit	System Network Device Power Requirements (NDISTest 6.5 - PM_Requirements)	06/30/2014	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	USB Exposed Port System Test	03/01/2013	526	Erratum	Properly implemented USB3 hubs are required for the Exposed Port tests. However the availability of these hubs is currently extremely limited.
Windows 8 64-bit	PCI Hardware Compliance Test For Systems	01/01/2015	13	Contingency	Legacy hardware filter.
Windows 8 64-bit	PCI Hardware Compliance Test For Systems	12/31/2014	201	Contingency	Legacy hardware filter.
Windows 8 64-bit	xHCI Debug Capability Compliance (Logo)	12/31/2013	566	Erratum	The XHCI Debug Capability Compliance Test will fail XHCI controllers that do not provide the debug capability registers.

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 Enhanced Consumer IR (CIR) component: Enable
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