



Windows Hardware Certification (WHC)

Intel® Desktop Board

**DX79SR**

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# Desktop/Motherboard WHC Report

2/21/2013

**Purpose:**

This report describes the DX79SR Motherboard Logo Program 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/en-us/windows/hardware/gg463010.aspx">http://msdn.microsoft.com/en-us/windows/hardware/gg463010.aspx</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;q=s">http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&amp;cid=105&amp;q=s</a>

# Desktop Board Configuration

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## Desktop Board DX79SR 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)
DX79SR	SIX7910D.86A.1777.2013.0204.1605	N/A - all technologies logo'd
<b>Processor</b>		
Speed	3.30GHz	
Family	Core i7 3960X	
Bus Speed	100 MHz	
<b>Motherboard</b>		
Board AA #	G57199	
Board FAB #	200 (eg. 10x for fab A, 20x for fab B and etc)	
<i>* 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.</i>		
<b>System Memory</b>		
Speed	Dual Channel, DDR3, 1333MHz	
Memory Type	DIMM	
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
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

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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
<b>Chipset Update Utility</b> Intel® Chipset Software Utility	Windows 8 64-bit	V9.2.3.1026	INF_allIOS_9.2.3.1026_PV
<b>Graphics</b> Nvidia GeForce GTS 250	Windows 8 64-bit	V9.18.13.1090	310.90-desktop-win8-win7-winvista-64bit-english-whql
<b>Audio</b> Realtek	Windows 8 64-bit	V6.0.1.6804	AUD_allIOS_6.0.1.6804_PV
<b>LAN</b> Intel® 82579LM Gigabit	Windows 8 64-bit	V12.2.45.0	PROWin8_64_v17.3
<b>LAN</b> Intel® 82574L Gigabit	Windows 8 64-bit	V12.1.77.0	PROWin8_64_v17.3
<b>MEI</b> 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: <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 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	<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