Motherboard Logo Program (MLP)

Intel® Desktop Board

DP55WG

MLP Report

8/31/2009

Purpose:

This report describes the DP55WG Motherboard Logo Program testing run conducted by Intel Corporation.

Contents

Introduction

Terms and Definitions

Term	Definitions
WHQL	Windows* Hardware Qualification Lab
WLK	Windows Logo Kits
MLP	Motherboard Logo Program. For further information see: http://www.microsoft.com/whdc/hwtest/default.mspx
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 DP55WG Final Configuration Report: Completion of MLP

Data in this section reflects system configuration at time of MLP submission.

Board Information

Product Code¹	BIOS String/Model	Technologies NOT Logo'd (yet)
DP55WG	KGIBX10J.86A.3314.2009.0813.1450	N/A - all technologies logo'd
Processor		
Speed	2.93 GHz	
Family	Intel® Core™ i7	
Bus Speed / DMI	2.5 GT/s	
Motherboard		
Board AA #	E57269	
Board FAB #	403	
* 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 Channels, DDR3, 1333MHz	
Memory Type	DIMM	
Connector Type	DDR3, 240 Pin	
Power Management		
BIOS Default	S3	
Operating System Tested		
	Check Tested	**Comments**
Windows 7 and 64-bit	☑	Windows 7 Ultimate
Windows Vista and 64-bit	☑	Vista Ultimate with Service Pack 2
Windows Vista Basic and 64-bit	☐	Vista Basic with Service Pack 2

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[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 Vista 32-bit and 64-bit

Technology	OS	Version	Package version
Chipset Update Utility Intel® Chipset Software Utility	Windows Vista	9.1.1.1013	9.1.1.1015
	Windows Vista 64-bit	9.1.1.1013	9.1.1.1015
Audio Realtek	Windows Vista	6.0.1.5892	5892
	Windows Vista 64-bit	6.0.1.5892	5892
LAN Intel® PRO Network Connections	Windows Vista	10.7.31.0	14.3
	Windows Vista 64-bit	10.7.31.0	14.3
CIR Nuvoton Consumer Infrared	Windows Vista	1.8.2009.514	2.1.2009.619
	Windows Vista 64-bit	1.8.2009.514	2.1.2009.619

Onboard Integrated Devices and Driver for Windows 7 32-bit and 64-bit

Technology	OS	Version	Package version
Chipset Update Utility Intel® Chipset Software Utility	Windows 7	9.1.1.1013	9.1.1.1015
	Windows 7 64-bit	9.1.1.1013	9.1.1.1015
Audio Realtek	Windows 7	6.0.1.5892	5892
	Windows 7 64-bit	6.0.1.5892	5892
LAN Intel® PRO Network Connections	Windows 7	11.0.41.0	14.3
	Windows 7 64-bit	11.0.41.0	14.3
CIR Nuvoton Consumer Infrared	Windows 7	2.1.2009.619	2.1.2009.619
	Windows 7 64-bit	2.1.2009.619	2.1.2009.619

Windows Logo Kits Used (WLK)

Microsoft website: http://www.microsoft.com/whdc/DevTools/WDK/DTM.mspx

Please check regularly for test kit updates from Microsoft. Please ensure latest filters updated prior to WHQL run.

Operating Systems	Notes	WHQL Testkit
Windows Vista Windows Vista 64-bit	WLK1.4 for Windows Vista SP2	WLK1.4 for Windows Vista SP2
Windows 7 Windows 7 64-bit	WLK1.4 for Windows 7	WLK1.4 for Windows 7

Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
Windows 7 Windows 7 64-bit Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For Systems	12/31/2009	35	Erratum	Bit range 11:9 (Endpoint L1 Acceptable Latency) in the Device Capabilities register (offset 4h) in the PCI Express Capability table must be read-only and always return 0 for devices other than endpoints. These register bits are requested to always return 0 in PCI Express revision 1.1, but are not requested to be always return 0 in PCI express revision 1.0a.
Windows 7 Windows 7 64-bit Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For Systems	12/31/2009	30	Erratum	Currently, the PCIHCT is testing the ASPM Support of a PCI Express device unconditionally, based on PCI Express specification. There is a published Microsoft white-paper (http://www.microsoft.com/whdc/system/bus/PCI/aspm.mspx) explaining that support is based on Role Based Error Reporting capability (by default).
Windows 7 Windows 7 64-bit Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For Systems	1/1/2010	1180	Erratum	If the Data Link Layer Link Active Reporting Capable field of the Link Capabilities register is set to 1, then the Data Link Layer Link Active field of the Link Status Register must be implemented as per the PCIe Base Specification. However, there is no requirement either in the OS code or in the PCIe Base specification that requires the reverse to be true, Thus, if the Data Link Layer Link Active field of the Link Status Register is implemented then it is NOT required for the Data Link Layer Link Active Reporting Capable field of the Link Capabilities register to be set to 1.
Windows 7 Windows 7 64-bit	1)Fidelity Test - Win7 (System, Manual) 2)Class Driver Fidelity Test – Win7(System, Manual)	12/1/2009	966	Erratum	Fidelity Test includes a "System Activity Test" that verifies audio fidelity is not compromised during system activity. It uses an activity generator called rws.exe (Real World Stress) which has a bug that causes it to hit an access violation. When this happens it exits with return code 0xC00000005, or -1073741819.
Windows 7 Windows 7 64-bit Windows Vista Windows Vista 64-bit	1)Class Driver Fidelity Test – Win7 (System, Manual) 2)Fidelity Test - Win7 (System, Manual) 3)HDAudio Class Driver Fidelity Test – Vista (System, Manual) 4)Fidelity Test - Vista (System, Manual)	12/31/2009	1238	Erratum	Fidelity Test now includes a "Render Power Transition" test. This preview filter covers all errors in this new test of SYSFUND-0050.

Windows 7 Windows 7 64-bit Windows Vista Windows Vista 64-bit	1)Class Drive AC3 Test - Win7 (System) 2)HDAudio Class Driver Test – Vista or Serve 08 (System)	6/1/2010	1256	Erratum	Run AC3 test on a system with the Microsoft HD Audio class driver installed. Expected results: All AC3 kernel streaming data ranges should advertise MinimumBitsPerSample = 16 and MaximumBitsPerSample = 16. Actual results: HD Audio class driver sometimes advertises MaximumBitsPerSample = 24.
Windows 7 Windows 7 64-bit Windows Vista Windows Vista 64-bit	1)UAA Test - Win7 (System) 2)UAA Test – Vista or Serve 08 (System))	12/1/2009	513	Erratum	UAA Test requires the Traffic Priority bit to be read/write - however there are two specs that apply, and they conflict. One says the bit must be read/write, the other says it must be read-only. Contact has been made with the author of both specs (Intel) but until this point is clarified we cannot fail submissions containing this test failure.
Windows 7 Windows 7 64-bit Windows Vista Windows Vista 64-bit	1)Wave Test - Win7 (System) 2)Wave Test – Vista or Serve 08 (System)	6/1/2010	1281	Erratum	Run "Data Intersection Test\Capture Streaming\Check Supported Formats" out of WaveTest on a system containing audio devices that are "disabled" via the Sound Control panel. Expected results: should succeed. Actual results: fail with "Failed to find any endpoints for the current pin" and "Failed to decide if current data intersection test should be skipped"
Windows 7 Windows 7 64-bit	WDDM CCD Test for Forced Projection	6/1/2010	1268	Erratum	The WDDM CCD Test for forced projection test fails due to not recognizing SDTV dongle as a forcible target.
Windows Vista Windows Vista 64-bit	GlitchFree WMV HD 720p video playback quality test	12/1/209	1245	Erratum	SYSFUND-0062 Case 2 and 3 were added to enhance the verification of the video playback test. These cases will be in preview state until this errata expires. If cases 2 or 3 of the GFHD test fail for any reason while this errata is active, then the failures should be fitered out. Cases 0 and 1 do not apply to this errata and remain a requirement.

Test Notes

Operating System	Test	Description
Windows 7 and Vista	BIOS download	Internal: http://bios.intel.com/downloads/ External: http://www.intel.com/ click on Support and Download
Windows 7 and Vista	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 IDE Chipset Configuration: Enable HPET ACPI Suspend State: Set to <S3 State> Boot Device Priority: set <Hard Disk Driver> to first
Windows 7 and Vista filter update	WLK WHQL test	http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab
Special H/W that use to PASS the test	None	None