



Motherboard Logo Program (MLP)

Intel® Desktop Board

DP67DE

MLP Report

12/16/2010

Purpose:

This report describes the DP67DE 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 DP67DE Final Configuration Report: Completion of MLP	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 Vista 32-bit and 64-bit	6
Onboard Integrated Devices and Driver for Windows 7 32-bit and 64-bit.....	7
Windows Logo Kits Used (WLK)	7
Errata and Contingencies	8
Test Notes.....	10

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.msp
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&q=s

Desktop Board Configuration

Desktop Board DP67DE Final Configuration Report: Completion of MLP

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

Board Information

Product Code ¹	BIOS String/Model	Technologies NOT Logo'd (yet)
DP67DE	BAP6710H.86A.0031.2010.1029.1501	N/A - all technologies logo'd
Processor		
Speed	3.40GHz	
Family	Intel Core i7 CPU 2600	
Bus Speed	1333 MHz	
Motherboard		
Board AA #	G10217	
Board FAB #	201 (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>		
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 7 and 64-bit	<input checked="" type="checkbox"/>	Windows 7 Ultimate
Windows Vista and 64-bit	<input checked="" type="checkbox"/>	Vista Ultimate with Service Pack 2
Windows Vista Basic and 64-bit	<input type="checkbox"/>	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 Vista 32-bit and 64-bit

Technology	OS	Version	Package version
Chipset Update Utility Intel® Chipset Software Utility	Windows Vista	V9.2.0.1015	INF_allIOS_9.2.0.1015_PV.zip
	Windows Vista 64-bit	V9.2.0.1015	INF_allIOS_9.2.0.1015_PV.zip
Graphics nVIDIA GeForce GTS250	Windows Vista	V8.17.12.5896	258.96_desktop_win7_winvista_32bit_englis_h_whql
	Windows Vista 64-bit	V8.17.12.5896	258.96_desktop_win7_winvista_64bit_englis_h_whql
Audio Realtek	Windows Vista	V6.0.1.6215	AUD_Vista_Win7_6.0.1.6215_PV.zip
	Windows Vista 64-bit	V6.0.1.6215	AUD_Vista_Win7_6.0.1.6215_PV.zip
LAN Intel® 82579V Gigabit	Windows Vista	V11.8.74.0	LAN_allIOS_11.8.74.0_PV.zip
	Windows Vista 64-bit	V11.8.74.0	LAN_allIOS_11.8.74.0_PV.zip
MEI Intel® Management Engine Interface	Windows Vista	V 7.0.0.1118	MEI_allIOS_7.0.0.1135_PV.zip
	Windows Vista 64-bit	V 7.0.0.1118	MEI_allIOS_7.0.0.1135_PV.zip

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	V9.2.0.1015	INF_allIOS_9.2.0.1015_PV.zip
	Windows 7 64-bit	V9.2.0.1015	INF_allIOS_9.2.0.1015_PV.zip
Graphics nVIDIA GeForce GTS250	Windows 7	V8.17.12.5896	258.96_desktop_win7_winvista_32bit_englis_h_whql
	Windows 7 64-bit	V8.17.12.5896	258.96_desktop_win7_winvista_64bit_englis_h_whql
Audio Realtek	Windows 7	V6.0.1.6215	AUD_Vista_Win7_6.0.1.6215_PV.zip
	Windows 7 64-bit	V6.0.1.6215	AUD_Vista_Win7_6.0.1.6215_PV.zip
LAN Intel® 82579V Gigabit	Windows 7	V11.8.74.0	LAN_allIOS_11.8.74.0_P V.zip
	Windows 7 64-bit	V11.8.74.0	LAN_allIOS_11.8.74.0_P V.zip
MEI Intel® Management Engine Interface	Windows 7	V7.0.0.1118	MEI_allIOS_7.0.0.1135_PV.zip
	Windows 7 64-bit	V7.0.0.1118	MEI_allIOS_7.0.0.1135_PV.zip

Windows Logo Kits Used (WLK)

Microsoft website: <http://www.microsoft.com/whdc/DevTools/WDK/DTM.aspx>

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

Operating Systems	Notes	WHQL Testkit
Windows 7 Windows 7 64-bit	WLK1.5 for Windows 7	WLK1.5 for Windows 7
Windows Vista Windows Vista 64-bit	WLK1.5 for Windows Vista SP2	WLK1.5 for Windows Vista SP2

Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	1) Fidelity Test - Vista (System, Manual) 2) HDAudio Class Driver Fidelity Test - Vista (System, Manual) 3) Class Driver Fidelity Test - Win7 (System, Manual) 4) Fidelity Test - Win7 (System, Manual)	1/31/2011	1801	Erratum	Fidelity Render Power Transition test does not work properly. The test is not going to be enforced until a fix can be released.
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	1) HDAudio Class Driver Test - Vista or Server08 (System) 2) Class Driver AC3 Test - Win7 (System)	6/30/2025	1256	Erratum	The HD Audio class driver hdaudio.sys exposes AC-3 data ranges on S/PDIF Kernel Streaming pins incorrectly. The compressed AC-3 transport is "stereo", "16-bit", and at the same sample rate as the uncompressed format. As such, AC-3 data ranges are expected to have MaximumChannels = 2, and MinimumBitDepth = MaximumBitDepth = 16. However, the HD Audio class driver sometimes incorrectly exposes a MaximumBitDepth of 24 or even 32.
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	6/1/2011	401	Erratum	The following PCI Compliance test failure is acceptable: Bit 15 (Bridge Configuration Retry Enable) in the Device Control register (offset 8h) in the PCI Express Capability table must be read-only and always return 0 as it is reserved for devices other than PCI Express to PCI/PCI-X Bridges. Assertion 13A41D3E-2576-41DC-A67C-525DA3637CEA This failure is acceptable because this is a PCIe 1.1 feature and the WLP requires compliance with only PCIe 1.0a.
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	6/1/2011	923	Erratum	Assertion FAE18121-9177-4FB2-A081-0D04C285EFF2 Bit range 15:0 (Extended Capability ID) in the Enhanced Capability Header register (offset 0h) in the Unrecognized Enhanced Capability ID 13 table is Dh. It must be in the range [0x0 - 0xB] as all other Capability IDs are reserved.
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	1) UAA Test - Vista or Server08 (System) 2) UAA Test - Win7 (System)	6/1/2011	1300	Erratum	UAA Test wrongly tests pin widgets that have their Configuration Default register's Port Connectivity field set to No Connection. The Microsoft HD Audio Pin Configuration guidelines specifically call out "set Port Connectivity to No Connection" as the official way to turn a pin off. UAA Test should ignore any such pins, as will the Microsoft HD Audio class driver.
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	1) UAA Test - Vista or Server08 (System) 2) UAA Test - Win7 (System)	6/1/2015	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 Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	1)UAA Test - Vista or Server08 (System) 2) UAA Test - Win7 (System)	2/28/2011	1299	Erratum	Preview filter - Jack Detect Override on digital pin widgets Errata 1299 The HD Audio configuration default register (7.3.3.31 in the HD Audio specification) includes a "Jack Detect Override" flag that can be used to indicate that although a pin widget would normally be capable of jack detection, there is something about this particular system that causes this to be impossible. This was intended to be used, for example, for analog pin widgets that are connected to RCA jacks, which do not allow for impedance detection. Some digital pin widgets are using the Presence Detect pin sense response to indicate that a digital handshake has occurred - indeed, HDMI pins have entire DCNs built around this concept, and it applies equally well to S/PDIF pins. A digital converter that supports presence detection should be able to do so in any system, so the "Jack Detect Override" concept should not apply to digital pins.
Windows Vista Windows Vista 64bit Windows 7 Windows 7 64-bit	USB Host Controller Compliance (Automated)	6/1/2012	1787	Erratum	Errata 1787 XHCl spec compliance test is in preview For further details visit: https://winqual.microsoft.com/ec/
Windows Vista Windows Vista 64bit	HDAudio Class Driver Fidelity Test - Vista (System, Manual)	6/1/2011	1012	Erratum	Fidelity plays a quiet (-60 dB FS) test tone during System Activity test which is filtered out of the noise level measurement. However, Fidelity is quite prone to glitches during system activity... the glitches leak into the measured noise, causing false failures.
Windows Vista Windows Vista 64bit	HDAudio Class Driver Fidelity Test - Vista (System, Manual)	7/31/2011	598	Erratum	EU restrictions place a cap on the output level of headphone jacks at 32 Ohm load; headphones are not allowed to have an electrical output of more than 150 mV at that load. We test headphone jacks at 300 Ohm load; the relationship between the output at 32 Ohms and the output at 320 Ohms depends on the output impedance of the headphone jack. In particular, if a headphone jack meets the EU requirement of $X \leq 150$ mV at 32 Ohms, depending on the output impedance, it could output a huge amount of power at 300 Ohms, or very slightly over X mV. Since we require $X \geq 120$ mV at 32 Ohms, absent knowledge of the output impedance we can only require $X \geq 120$ mV at 300 Ohms. 120 mV is -18.42 dBV. Any headphone output level at 32 Ohms that is less than -18.42 dBV is a legitimate failure, even if it is targeted at EU compliance. Any headphone output level greater than 1 Vrms (0.707 Vrms for mobile systems) is a legitimate pass, regardless of EU compliance. This errata covers output level failures for headphone jacks between -18.42 dBV and 1 Vrms/0 dBV (0.707 Vrms/-6.93 dBV for mobile systems)) in accordance with note 6 of the WLP fidelity requirements.
Windows 7	GlitchFree WMV HD 720p video playback quality test	6/1/2011	2018	Erratum	The GlitchFree WMV HD 720p video playback quality test enforces SYSFUND-0062. A problem has been found in Case 3 that may cause the test to improperly fail.
Windows Vista 64bit	System - Common Scenario Stress With IO	6/1/2011	1537	Erratum	The Common Scenario Stress with IO test enumerates devices that can be disabled early in the boot cycle. Some devices can be disabled during the boot process, but later cannot be disabled. Since the test does not check the device status each time, it may attempt to disable a device that cannot be disabled.

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 (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 Note: Enhanced Consumer IR (CIR) component is not supported under Windows7.
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