

Motherboard Logo Program (MLP)

Intel® Desktop Board DB43LD

MLP Report

9/21/2009

Purpose:

This report describes the DB43LD Motherboard Logo Program testing run conducted by Intel Corporation.

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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 DB43LD 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)			
DB43LD	LDB4310H.86A.0030.2009.0410.1420	N/A - all technologies logo'd			
Processor					
Speed	3.0GHz				
Family	Intel® Core™2 Quad				
Bus Speed	1333 MHz				
Motherboard					
Board AA #	E60577				
Board FAB #	200				
	es to the production FAB revision; Please co ion you intend to perform logo testing if no	onsult your Intel Corporation representative to clarify the of the same.			
System Memory					
Speed	Dual Channel, DDR2, 800MHz				
Memory Type	DIMM				
Connector Type	DDR2, 240 Pin				
Power Management					
BIOS Default	S3				
Operating System	Operating System Tested				
	Check Tested Comments				
Windows 7 and 64-bit	Ø	Windows 7 Ultimate			
Windows Vista and 64-bit	Image: control of the	Vista Ultimate with Service Pack 1			
Windows Vista Basic and 64-bit	□ Vista Basic with Service Pack 1				

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	Windows Vista	9.0.0.1011	9.1.1.1011		
Intel [®] Chipset Software Utility	Windows Vista 64-bit	9.0.0.1011	9.1.1.1011		
Graphics	Windows Vista	7.15.10.1659	15.13.0.1659		
Intel [®] Graphics Media Accelerator	Windows Vista 64-bit	7.15.10.1659	15.13.64.1659		
Audio	Windows Vista	6.0.1.5798	5798		
Realtek	Windows Vista 64-bit	6.0.1.5798	5798		
		1			
LAN	Windows Vista	10.4.19.0	13.5		
Intel® PRO Network Connections	Windows Vista 64-bit	10.4.19.0	13.5		
MEI	Windows Vista	5.0.1.1127	5.1.0.1167		
Intel® Management Engine Interface	Windows Vista 64-bit	5.0.1.1127	5.1.0.1167		
	L			1	

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

Technology	OS	Version	Package version	
Chipset Update Utility	Windows 7	9.1.1.1015	9.1.1.1015	
Intel [®] Chipset Software Utility	Windows 7 64-bit	9.1.1.1015	9.1.1.1015	
Graphics	Windows 7	8.15.10.1840	15.15.1.1840	
Intel [®] Graphics Media Accelerator	Windows 7 64-bit	8.15.10.1840	15.15.1.64.1840	
Audio	Windows 7	6.0.1.5892	5892	
Realtek	Windows 7 64-bit	6.0.1.5892	5892	
LAN	Windows 7	11.0.41.0	14.2	
Intel® PRO Network Connections	Windows 7 64-bit	11.0.41.0	14.2	
MEI	Windows 7	5.2.0.1008	5.2.0.1018	
Intel [®] Management Engine Interface	Windows 7 64-bit	5.2.0.1008	5.2.0.1018	

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 7 Windows 7 64-bit	WLK1.4 for Windows 7	WLK1.4 for Windows 7
Windows Vista Windows Vista 64-bit	WLK1.4 for Windows Vista SP1	WLK1.4 for Windows Vista SP1

Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Туре	Error Description
Window 7 Window 7 64-bit	Class Driver AC3 Test - Win7 (System)	06/01/2010	1572	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 7 Windows 7 64-bit	1)Class Driver Fidelity Test - Win7 (System, Manual) 2)Fidelity Test - Win7 (System, Manual)	12/31/2009	1547	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	Class Driver Fidelity Test - Win7 (System, Manual)	12/01/2009	1670	Erratum	EU restrictions place a cap on the output level of headphone jacks at 32 0hm load: headphones are not allowed to have an electrical output of more than 150 mV at that load. We test headphone jacks at 300 0hm load; the relationship between the output at 32 0hms and the output at 320 0hms depends on the output impedance of the headphone jack. In particular, if a headphone jack meets the EU requirement of X <= 150 mV at 32 0hms, depending on the output impedance, it could output a huge amount of power at 300 0hms, or very slightly over X mV. Since we require X >= 120 mV at 32 0hms, absent knowledge of the output impedance we can only require X >= 120 mV at 300 0hms. 120 mV is -18.42 dBV. Any headphone output level at 32 0hms 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 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	12/31/2009	385	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 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	06/01/2010	1543	Erratum	Assertion 0E36472A-0EDB-4685-A67D-7AF1FFBFA81B Data Link Layer Link Active Reporting Capable bit is set but Data Link Layer Link Active is not.
Windows 7 Windows 7 64-bit	UAA Test - Win7 (System)	12/01/2009	1394	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	Wave Test - Win7 (System)	06/01/2010	1584	Erratum	WaveTest false-fails DEVICE_STATE_DISABLED endpoints like CD In and Stereo Mix. This is because it only considers DEVICE_STATE_ACTIVE endpoints when attempting to decide wether communications-class requirements should apply.

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 IDE 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.</hard></s3>
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