



Motherboard Logo Program (MLP)

Intel® Desktop Board

DZ68ZV

MLP Report

Purpose:

This report describes the Board DZ68ZV 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&q=s

Desktop Board Configuration

Desktop Board DZ68ZV 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)
DZ68ZV	BGP6710J.86A.2062.2011.0914.0207	N/A - all technologies logo'd
Processor		
Speed	3.4GHz	
Family	Intel® Core i7 2600	
Bus Speed	1333 MHz	
Motherboard		
Board AA #	G41861	
Board FAB #	301	
* 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 7 32 and 64-bit	<input checked="" type="checkbox"/>	Windows 7 Ultimate with Service Pack 1
Vista 32 and 64-bit	<input checked="" type="checkbox"/>	Vista Ultimate 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/Add-in 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	9.2.0.1030	9.2.0.1030
	Windows 7 64-bit	9.2.0.1030	9.2.0.1030
Audio Realtek High Definition Audio	Windows 7	6.0.1.6410	6.0.1.6410
	Windows 7 64-bit	6.0.1.6410	6.0.1.6410
LAN Intel 82579LM Gigabit Network Connection	Windows 7	11.13.51.0	11.13.51.0
	Windows 7 64-bit	11.13.51.0	11.13.51.0
MEI Intel Management Engine Interface	Windows 7	7.0.0.1144	7.0.0.1144
	Windows 7 64-bit	7.0.0.1144	7.0.0.1144
USB3 Renesas Electronic USB 3.0	Windows 7	Windows Vista 2.1.19.0	2.1.19.0
	Windows 7 64-bit	Windows Vista 64-bit 2.1.19.0	2.1.19.0
CIR Nuvoton Consumer Infrared	Windows 7	Windows Vista 2.2.2011.128	2.2.2011.128
	Windows 7 64-bit	Windows Vista 64-bit 2.2.2011.128	2.2.2011.128
IRST Intel Rapid Storage Technology	Windows 7	10.6.0.1002	10.6.0.1002
	Windows 7 64-bit	10.6.0.1002	10.6.0.1002

Onboard Integrated/Add-in Devices and Driver for Windows Vista 32-bit and 64-bit

Technology	OS	Version	Package version
Chipset Update Utility Intel® Chipset Software Utility	Windows Vista	9.2.0.1030	9.2.0.1030
	Windows Vista 64-bit	9.2.0.1030	9.2.0.1030
Audio Realtek High Definition Audio	Windows Vista	6.0.1.6410	6410
	Windows Vista 64-bit	6.0.1.6410	6410
LAN Intel 82579LM Gigabit Network Connection	Windows Vista	11.13.51.0	11.13.51.0
	Windows Vista 64-bit	11.13.51.0	11.13.51.0
MEI Intel Management Engine Interface	Windows Vista	7.0.0.1144	7.0.0.1144
	Windows Vista 64-bit	7.0.0.1144	7.0.0.1144

USB3 Renesas Electronic USB 3.0	Windows Vista	2.1.19.0	2.1.19.0
	Windows Vista 64-bit	2.1.19.0	2.1.19.0
CIR Nuvoton Consumer Infrared	Windows Vista	1.8.2009.514	1.8.2009.514
	Windows Vista 64-bit	1.8.2009.514	1.8.2009.514
IRST Intel Rapid Storage Technology	Windows Vista	10.6.0.1002	10.6.0.1002
	Windows Vista 64-bit	10.6.0.1002	10.6.0.1002

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	WLK1.6 for Windows 7 SP1	WLK1.6 for Windows 7 SP1
Windows Vista Windows Vista 64-bit	WLK1.6 for Windows Vista SP2	WLK1.6 for Windows Vista SP2

Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
windows 7 windows 7 - 64bit Vista Vista -64bit	Win7: PCI Hardware Compliance Test For Systems	12/01/2012	401	Erratum	Issue Description: 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.
			1241		Issue Description: Data Link Layer Link Active Reporting Capable bit is set but Data Link Layer Link Active is not.
			923		Issue Description: 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 7 windows 7 - 64bit Vista Vista -64bit	Win7: UAA Test - Win7 (System)	06/01/2015	513	Erratum	Issue Description: 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 - 64bit Vista Vista -64bit	Win7: Class Driver AC3 Test - Win7 (System) Vista: HDAudio Class Driver Test - Vista or Server08 (System)	06/30/2025	1256	Erratum	Issue Description: 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 - 64bit Vista Vista -64bit	Win7: Class Drive Fidelity Test - Win7 (System, Manual) Vista: HDAudio Class Driver Fidelity Test - Vista (System, Manual)	7/31/2015	598	Erratum	Issue Description: The European Union requires the headphone output level to be <= 150 mVrms for headphone jacks. There's a note in WLP requirement AUDIO-0006 that states, in the presence of regional regulations, the output level requirement for headphones is dropped from >= 1000 mVrms to >= 120 mVrms. This provides freedom for manufacturers to meet both the EU <= 150 mVrms @ 32 Ohms and the WLP >= 120 mVrms @ 32 Ohms requirements. The Fidelity Test tests headphones at 300 Ohm load, though. Without knowledge of the output impedance at the jack, the test cannot extrapolate what the output level at 32 Ohms would have been from the output level at 300 Ohms. The test assumes that the output level at 32 Ohms will be *less* than the output level at 300 Ohms, though. So any

					measurement ≥ 120 mVrms at 300 Ohms "could be" a passing result, depending on the output impedance.
Vista Vista -64bit	HDAudio Class Driver Fidelity Test - Vista (System, Manual)	6/01/2015	1012	Erratum	Issue Description: Fidelity uses too small of a buffer and wakes up too infrequently during the System Activity test. This causes errors like: Noise level during system activity on (left or right) channel 73.2016 dB: *** FAIL *** (requirement ≥ 80 dB)
Vista Vista -64bit	Fidelity Test - Vista (System, Manual)	6/01/2015	1012	Erratum	Issue Description: Fidelity uses too small of a buffer and wakes up too infrequently during the System Activity test. This causes errors like: Noise level during system activity on (left or right) channel 73.2016 dB: *** FAIL *** (requirement ≥ 80 dB)

Test Notes

Operating System	Test	Description
Windows 7	BIOS download	Internal: http://bios.intel.com/downloads/ External: http://www.intel.com/ click on Support and Download
Windows 7	BIOS setup	Please make sure the BIOS setting are as below, otherwise use default settings. System Date and Time: Current date and time Enhance Consumer IR: Enable Others: BIOS default setting
Windows 7 filter update	WLK WHQL test	http://winqval.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab
Special H/W that use to PASS the test	None	None