Previously Logo'd Motherboard Program (PLMP)

Intel® Desktop Board DZ77BH

PLMP Report

3/07/2012

Purpose:

This report describes the Board DZ77BH Previously logo'd Motherboard 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
PLMP	Previously logo'd Motherboard 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 DZ77BH Configuration Report: Completion of PLMP

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

Board Information

Product Code[1]	BIOS String/Model	Technologies NOT Logo'd (yet)
DZ77BH	BHZ7710H.86A.0057.2012.0208.1904	N/A - all technologies logo'd
Processor		
Speed	3.5GHz	
Family	Intel® Core i7 3770K QC45	
Bus Speed	1600 MHz	
Motherboard		
Board AA #	G39008	
Board FAB #	300	
* 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, 1600MHz	
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	☑	Windows 7 Ultimate 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/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**	9.3.0.1020	9.3.0.1020
	Windows 7 64-bit	9.3.0.1020	9.3.0.1020
On-board Graphic Intel HD Graphic 4000	**Windows 7**	8.15.10.2653	15.26.4.2653
	Windows 7 64-bit	8.15.10.2653	15.26.4.64.2653
On-board Audio Realtek High Definition Audio	**Windows 7**	6.0.1.6526	PG344
	Windows 7 64-bit	6.0.1.6526	PG344
LAN Intel 82579V Gigabit Network Connection	**Windows 7**	11.15.12.0	16.8
	Windows 7 64-bit	11.15.12.0	16.8
ME Intel Management Engine Interface	**Windows 7**	8.0.0.1262	8.0.0.1262
	Windows 7 64-bit	8.0.0.1262	8.0.0.1262
USB 3.0 Intel USB3.0	**Windows 7**	1.0.3.214	1.0.3.214
	Windows 7 64-bit	1.0.3.214	1.0.3.214
USB 3.0 NEC	**Windows 7**	2.1.28.0	2.1.28.0
	Windows 7 64-bit	2.1.28.0	2.1.28.0
CIR Nuvoton W836x7HG	**Windows 7**	2.2.2011.128	2.2.2011.128
	Windows 7 64-bit	2.2.2011.128	2.2.2011.128
IRST **Intel Z77**	**Windows 7**	11.0.0.1032	11.0.0.1032
	Windows 7 64-bit	11.0.0.1032	11.0.0.1032

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

Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
windows 7 windows 7 - 64bit	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.
windows 7 windows 7 - 64bit	PCI Hardware Compliance Test For Systems	12/01/2012	1241	Erratum	**Issue Description:** Data Link Layer Link Active Reporting Capable bit is set but Data Link Layer Link Active is not.
windows 7 windows 7 - 64bit	PCI Hardware Compliance Test For Systems	12/01/2012	923	Erratum	**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	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	UAA Test - Win7 (System)	06/01/2015	1300	Erratum	**Issue Description:** HD Audio pin configuration document calls out setting Port Connectivity to No Connection as the way to turn a pin off in a particular system. UAA Test incorrectly tests such pins.
windows 7 windows 7 - 64bit	UAA Test - Win7 (System)	06/01/2013	Filter 3276	Erratum	**Issue Description:** HDMI audio devices are backed by video pipes; if a graphics subsystem exposes three output ports, but only has two video pipes, it is not possible to get all three HDMI audio endpoints "active" simultaneously.
windows 7 windows 7 - 64bit	Class Driver AC3 Test - Win7 (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 Windows7 - 64bit	Signed Driver Check (Manual)	12/01/2012	2346	Erratum	**Issue Description:** The Signed Driver Check test may improperly fail with messages related to the subsystem vendor ID of the integrated device. This test assertion check for subsystem vendor IDs is being removed from the next version of the test so we are no longer requiring these test assertions to pass. This does not affect other checks within the test and errors such as oemx.inf is not signed are required to be fixed and pass.

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://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab
Special H/W that use to PASS the test	None	None