



Previously logo'd Motherboard Program (PMLP)

# Intel® Desktop Board

## DZ77RE

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# PMLP Report

07/04/2012

**Purpose:**

This report describes the DZ77RE Previously logo'd Motherboard Program testing run conducted by Intel Corporation.

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# Introduction

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## Terms and Definitions

Term	Definitions
WHQL	Windows* Hardware Qualification Lab
WLK	Windows Logo Kits
PMLP	Previously logo'd Motherboard Program. For further information see: <a href="http://www.microsoft.com/whdc/hwtest/default.msp">http://www.microsoft.com/whdc/hwtest/default.msp</a>
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: <a href="http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&amp;cid=105&amp;q=s">http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&amp;cid=105&amp;q=s</a>

# Desktop Board Configuration

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## Desktop Board DZ77RE Configuration Report: Completion of PMLP

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

### Board Information

Product Code <sup>1</sup>	BIOS String/Model	Technologies NOT Logo'd (yet)
DZ77RE	GAZ7711H.86A.0039.2012.0426.1522	N/A - all technologies logo'd
Processor		
Speed	3.5GHz	
Family	Intel® Ivy bridge i7-3770K QC45	
Bus Speed	100 MHz	
Motherboard		
Board AA #	G39010	
Board FAB #	200	
* 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	<input checked="" type="checkbox"/>	Windows 7 Ultimate with Service Pack 1

### 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 Graphics 4000	Windows 7	8.15.10.2712	15.26.9.2712
	Windows 7 64-bit	8.15.10.2712	15.26.9.64.2712

<sup>1</sup> 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.

<b>On-board Audio</b> Realtek High Definition Audio	<b>Windows 7</b>	6.0.1.6602	PG344
	<b>Windows 7 64-bit</b>	6.0.1.6602	PG344
<b>LAN1</b> Intel 82579V Gigabit Network Connection	<b>Windows 7</b>	11.16.96.0	17.0
	<b>Windows 7 64-bit</b>	11.16.96.0	17.0
<b>LAN2</b> Intel 82574L Gigabit Network Connection	<b>Windows 7</b>	11.14.48.0	17.0
	<b>Windows 7 64-bit</b>	11.14.48.0	17.0
<b>ME</b> Intel Management Engine Interface	<b>Windows 7</b>	8.0.0.1262	8.0.0.1262
	<b>Windows 7 64-bit</b>	8.0.0.1262	8.0.0.1262
<b>USB 3.0</b> Intel USB3.0	<b>Windows 7</b>	1.0.4.220	1.0.4.220
	<b>Windows 7 64-bit</b>	1.0.4.220	1.0.4.220
<b>IRST</b> Intel Z77	<b>Windows 7</b>	11.1.0.1006	11.1.0.1006
	<b>Windows 7 64-bit</b>	11.1.0.1006	11.1.0.1006
<b>Marvell SATA</b>	<b>Windows 7</b>	1.2.0.1019	1.2.0.1019
	<b>Windows 7 64-bit</b>	1.2.0.1019	1.2.0.1019
<b>PCIe x1 TV card</b> Hauppauge WinTV HVR-1250	<b>Windows 7</b>	1.44.27253.0	1.44.27253.0
	<b>Windows 7 64-bit</b>	1.44.27253.0	1.44.27253.0
<b>CIR</b> Nuvoton W836x7HG	<b>Windows 7</b>	2.2.2011.128	2.2.2011.128
	<b>Windows 7 64-bit</b>	2.2.2011.128	2.2.2011.128
<b>Wireless</b> MSI,MS-3871	<b>Windows 7</b>	3.1.4.0	3.1.4.0
	<b>Windows 7 64-bit</b>	3.1.4.0	3.1.4.0
<b>Bluetooth</b> MSI,MS-3871	<b>Windows 7</b>	3.0.2.285	3.0.2.285
	<b>Windows 7 64-bit</b>	3.0.2.285	3.0.2.285

## Windows Logo Kits Used (WLK)

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

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	<a href="#">WLK1.6 for Windows 7 SP1</a>	<a href="#">WLK1.6 for Windows 7 SP1</a>

## 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	<b>Issue Description:</b> 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	<b>Issue Description:</b> 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	528	Erratum	<b>Issue Description:</b> Assertion 5FC5B29C-0F24-423B-856A-87C9E31C6802 Bit 14 (Completion Timeout Error Severity) in the Uncorrectable Error Reporting Capability table must be read-only. Assertion A1A6-BE1DBD45522E Bit 14 (Completion Timeout Error Severity) in the Uncorrectable Error Reporting Capability table must be read-writable. These failures are acceptable for devices that do not issue Non-Posted Requests on their own behalf (vs. only forwarding requests).
windows 7 windows 7 - 64bit	PCI Hardware Compliance Test For Systems	12/31/3000	1355	Erratum	<b>Issue Description</b> Assertion 382730D5-AC1A-4C67-A233-83843A4EFC32 Mask Bits register of 1 for all the values up-to and including Fh.
windows 7 windows 7 - 64bit	UAA Test - Win7 (System)	06/01/2015	513	Erratum	<b>Issue Description:</b> 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	<b>Issue Description:</b> 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	<b>Issue Description:</b> 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	<b>Issue Description:</b> 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	<b>Issue Description:</b> 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: <a href="http://bios.intel.com/downloads/">http://bios.intel.com/downloads/</a> External: <a href="http://www.intel.com/">http://www.intel.com/</a> 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 Peripheral Configuration: Enable all onboard component 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
Windows 7 filter update	WLK WHQL test	<a href="https://sysdev.microsoft.com/member/SubmissionWizard/LegalExemptions/updatefilters.cab">https://sysdev.microsoft.com/member/SubmissionWizard/LegalExemptions/updatefilters.cab</a>
Special H/W that use to PASS the test	None	None