



Previously Logo'd Motherboard Program (PLMP)

# Intel® Desktop Board

## DZ77GA

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# PLMP Report

3/12/2012

**Purpose:**

This report describes the Board DZ77GA 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
PLMP	Previously logo'd Motherboard Program. For further information see: <a href="http://www.microsoft.com/whdc/hwtest/default.mspx">http://www.microsoft.com/whdc/hwtest/default.mspx</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 DZ77GA Configuration Report: Completion of PLMP

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

### Board Information

Product Code <sup>1</sup>	BIOS String/Model	Technologies NOT Logo'd (yet)
DZ77GA	GAZ7711H.86A.0021.2012.0222.2054	N/A - all technologies logo'd
Processor		
Speed	3.5GHz	
Family	Intel® Core i7-3770K QC45	
Bus Speed	1600 MHz	
Motherboard		
Board AA #	G39009	
Board FAB #	301	
<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, 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

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<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.

## Onboard Integrated/Add-in Devices and Driver for Windows 7 32-bit and 64-bit

Technology	OS	Version	Package version
<b>Chipset Update Utility</b> 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
<b>On-board Graphic</b> Intel HD Graphics 4000	Windows 7	8.15.10.2653	15.26.4.2653
	Windows 7 64-bit	8.15.10.2653	15.26.4.64.2653
<b>On-board Audio</b> Realtek High Definition Audio	Windows 7	6.0.1.6526	PG344
	Windows 7 64-bit	6.0.1.6526	PG344
<b>LAN1</b> Intel 82579V Gigabit Network Connection	Windows 7	11.15.12.0	16.8
	Windows 7 64-bit	11.15.12.0	16.8
<b>LAN2</b> Intel 82574L Gigabit Network Connection	Windows 7	11.14.48.0	16.8
	Windows 7 64-bit	11.14.48.0	16.8
<b>ME</b> 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
<b>USB 3.0</b> 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
<b>IRST</b> Intel Z77	Windows 7	11.0.0.1032	11.0.0.1032
	Windows 7 64-bit	11.0.0.1032	11.0.0.1032
<b>Marvell SATA</b>	Windows 7	1.2.0.1019	1.2.0.1019
	Windows 7 64-bit	1.2.0.1019	1.2.0.1019
<b>PCIe x1 TV card</b> Hauppauge WinTV HVR-1250	Windows 7	1.38.27160.0	1.38.27160.0
	Windows 7 64-bit	1.38.27160.0	1.38.27160.0
<b>Wireless</b> MSI,MS-3871	Windows 7	3.1.4.0	3.1.4.0
	Windows 7 64-bit	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.
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## 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 Others: BIOS default setting
Windows 7 filter update	WLK WHQL test	<a href="http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab">http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab</a>
Special H/W that use to PASS the test	None	None