



Previously Logo'd Motherboard Program (PLMP)

**Intel® Desktop Board**

**DH55PJ**

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**PLMP Report**

3/30/2011

**Purpose:**

This report describes the DH55PJ 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 Logo 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 DH55PJ Final 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)
DH55PJ	TCIBX10H.86A.0036.2010.0525.1620	N/A - all technologies logo'd
<b>Processor</b>		
Speed	3.47GHz	
Family	Intel(R) Core(TM) i5 CPU 670	
Bus Speed	1333 MHz	
<b>Motherboard</b>		
Board AA #	E93812	
Board FAB #	300 (eg. 10x for fab A, 20x for fab B and etc)	
<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>		
<b>System Memory</b>		
Speed	Dual Channel, DDR3, 1333MHz	
Memory Type	DIMM	
Connector Type	DDR3, 240 Pin	
<b>Power Management</b>		
BIOS Default	S3	
<b>Operating System Tested</b>		
	<b>Check Tested</b>	<b>Comments</b>
Windows 7 and 64-bit	<input checked="" type="checkbox"/>	Windows 7 Ultimate
Windows Vista and 64-bit	<input type="checkbox"/>	Vista Ultimate with Service Pack 1
Windows Vista Basic and 64-bit	<input type="checkbox"/>	Vista Basic 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 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	9.1.2.1007	9.1.2.1007
	Windows 7 64-bit	9.1.2.1007	9.1.2.1007
<b>Graphics</b> Intel® Graphics Media Accelerator	Windows 7	8.15.10.2141	15.17.7.2141
	Windows 7 64-bit	8.15.10.2141	15.17.7.64.2141
<b>Audio</b> ADI	Windows 7	6.0.1.6106	6106
	Windows 7 64-bit	6.0.1.6106	6106
<b>LAN</b> Intel® PRO Network Connections	Windows 7	11.6.92.0	13.3
	Windows 7 64-bit	11.6.92.0	13.3
<b>MEI</b> Intel® Management Engine Interface	Windows 7	6.0.0.1179	6.1.0.1042
	Windows 7 64-bit	6.0.0.1179	6.1.0.1042
<b>iAMT</b> Intel® Active Management Technology	Windows 7	6.0.0.1179	6.1.0.1042
	Windows 7 64-bit	6.0.0.1179	6.1.0.1042

## 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="#">WLK1.5 for Windows 7</a>	<a href="#">WLK1.5 for Windows 7</a>

## Errata and Contingencies

Operating System	Failing Test	Expiry Date	CPKID /Filer Number	Type	Error Description
Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	12/01/2010	385/401	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	UAA Test - Win7 (System)	06/01/2015	1394/513	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 Windows 7 64-bit	UAA Test - Win7 (System)	01/31/2011	2190/1300	Erratum	UAA Test wrongly tests pin widgets that have their Configuration Default register's Port Connectivity field set to No Connection.  The Microsoft HD Audio Pin Configuration guidelines specifically call out "set Port Connectivity to No Connection" as the official way to turn a pin off. UAA Test should ignore any such pins, as will the Microsoft HD Audio class driver.
Windows 7 Windows 7 64-bit	UAA Test - Win7 (System)	07/01/2011	2195/1466	Erratum	Preview Filter - Keepalive on low power digital outputs AUDIO-0062, effective June 1 2009, requires that any HD Audio codec that advertises EPSS support comply with the Intel HD Audio Low Power DCN.  The Low Power DCN, in turn, says that support for EPSS is mandatory after July 1st 2011.
Windows 7 Windows 7 64-bit	UAA Test - Win7 (System)	08/09/2010	2365/1299	Erratum	Preview filter - Jack Detect Override on digital pin widgets The HD Audio configuration default register (7.3.3.31 in the HD Audio specification) includes a "Jack Detect Override" flag that can be used to indicate that although a pin widget would normally be capable of jack detection, there is something about this particular system that causes this to be impossible.  This was intended to be used, for example, for analog pin widgets that are connected to RCA jacks, which do not allow for impedance detection.  Some digital pin widgets are using the Presence Detect pin sense response to indicate that a digital handshake has occurred - indeed, HDMI pins have entire DCNs built around this concept, and it applies equally well to S/PDIF pins.  A digital converter that supports presence detection should be able to do so in any system, so the "Jack Detect Override" concept should not apply to digital pins.

Windows 7 Windows 7 64-bit	UAA Test - Win7 (System)	09/30/2010	2908/1198	Erratum	<p>Preview Filter - Reserved "Impedance" bits in Pin Sense response to digital pin widgets</p> <p>The original HD Audio 1.0 specification contains a notion of "presence detect", using electrical impedance which was intended to apply only to analog pins. However, the language of the specification was such that it could be read to apply to digital pins as well - in particular, to S/PDIF pins.</p> <p>A DCN was released to extend the notion of presence detect to digital pins - in particular, to HDMI pins. This repurposed one of the impedance bits, which were thought to be unused in digital pins, to mean "ELD valid."</p> <p>The correct way for a S/PDIF pin to respond to a Pin Sense verb is to set the highest bit (Presence Detect) to 1 or 0 corresponding to whether a S/PDIF connection is active; set the ELD Valid bit to 0 (since there is no such thing as ELD for S/PDIF); and set the rest of the bits, which are reserved for digital pins, to 0.</p> <p>This errata filter is a preview filter to allow hardware manufacturers time to update any hardware that used the impedance bits on digital pins.</p> <p>For further details visit: <a href="https://winqual.microsoft.com/ec/">https://winqual.microsoft.com/ec/</a></p>
Windows 7 Windows 7 64-bit	Class Driver AC3 Test - Win7 (System)	06/30/2025	1890/1256	Erratum	<p>The HD Audio class driver hdaudio.sys exposes AC-3 data ranges on S/PDIF Kernel Streaming pins incorrectly.</p> <p>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.</p> <p>However, the HD Audio class driver sometimes incorrectly exposes a MaximumBitDepth of 24 or even 32.</p>
Windows 7 Windows 7 64-bit	Signed Driver Check (Manual)	12/31/2010	2701/1248	Erratum	<p>If a driver is found to be signed by Microsoft that is tested with the chklogo test, the message, ERROR: No Logo Level Attribute on file., is an invalid failure if followed by, This file has a 0 level Logo and followed by, Cannot match the device ID of the driver the device was test within an invidual assertion.</p>



## 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 (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.
Windows 7 filter update	WLK WHQL test	<a href="http://winqval.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab">http://winqval.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab</a>
Special H/W that use to PASS the test	None	None