



Windows Hardware Certification (WHC)

Intel® Desktop Board

DH87RL

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# Motherboard WHC Report

11/7/2013

**Purpose:**

This report describes the Windows Hardware Certification 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
WHCK	Windows Hardware Certification kit
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 DH87RL Final Configuration Report: Completion of MLP

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

### Board Information

Product Code <sup>1</sup>	BIOS String/Model	Technologies NOT Logo'd (yet)
DH87RL	RLH8710H.86A.0322.2013.1003.1952	N/A - all technologies logo'd
Processor		
Speed	3.50 GHz	
Family	Intel® Core™ I7-4770K	
Bus Speed	35x	
Motherboard		
Board AA #	G74240	
Board FAB #	400	
<a href="#">* 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.</a>		
System Memory		
Speed	DUAL Channels, DDR3, 1600MHz	
Memory Type	DIMM	
Connector Type	DDR3,240pin	
Power Management		
BIOS Default	S3	
Operating System Tested		
	Check Tested	Comments
Windows 8.1 64bit	<input checked="" type="checkbox"/>	Windows 8.1 enterprise

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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 8.1 64-bit

Technology	OS	Version	Package version
<b>Chipset Update Utility</b> Intel® Chipset Software Utility	Windows 8.1 64-bit	9.4.0.1026	9.4.0.1026
<b>Graphics</b> Intel® HD Graphic 4600	Windows 8.1 64-bit	10.18.10.3308	15.33.4.64.3308
<b>Intel Display Audio</b> Intel® Display Audio	Windows 8.1 64-bit	6.16.0.3123	15.33.4.64.3308
<b>Audio</b> Realtek High HD Audio	Windows 8.1 64-bit	6.0.1.7016	6.0.1.7016
<b>LAN</b> Intel® I217V (Clarkville)	Windows 8.1 64-bit	12.9.16.0	12.8.33.0
<b>IRST</b> Intel® Rapid Storage Technology	Windows 8.1 64-bit	12.8.0.1016	12.8.0.1016
<b>Rapidstart</b> Intel Rapidstart	Windows 8.1 64-bit	3.0.0.1052	3.0.0.1052
<b>Smart Connect</b> Intel Smart Connect	Windows 8.1 64-bit	1.0.8.0	4.2.40.2439
<b>CIR</b> Nuvoton	Windows 8.1 64-bit	2.1.2012.1212	1.02.1002
<b>MEI</b> Intel® Management Engine Interface	Windows 8.1 64-bit	9.5.14.1724	9.0.0.1287

## Windows Hardware Certification Certification Kit (WHCK) Used (formerly WLK)

Microsoft website:

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

WHCK: <http://msdn.microsoft.com/id-ID/windows/hardware/hh852359>

Please check regularly for test kit updates from Microsoft. Please ensure latest filters updated prior to WHQL run.

Operating Systems	Notes	WHQL Test kit
Windows 8.1 64-bit	WHCK 2.1 for Windows 8.1	WHCK 2.1 for Windows 8.1

## Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
Windows 8.1 64-bit	Single Computer Display Object test	12/31/2013	884	Errata	AllInOne desktop computers have the "Computer.AllInOne" form factor. For this form factor, the test should recognize the mouse and keyboard to be external to the main computer machine. Without this filter it expects the mouse/keyboard to be part of the computer which may not be the case.
Windows 8.1 64-bit	UAA Test (System)	7/1/2014	354	Contingency	The FIFO size for Input and Output Stream Descriptors should be read only.
Window 8.1 64-bit	USB3 Termination	04/01/2014	1407	Errata	The USB3 Termination test may fail to find the USB 3.0 (Super Speed) device if the system's USB ports are not numbered contiguously. While nearly all systems have contiguous USB port numbers, it is not technically required. If this filter allows the FindUsb3Device task to pass, then HCK Errata ID 1407 can be used in a Readme form to overturn the remaining cancelled tasks.

## Test Notes

Operating System	Test	Description
Windows 8.1	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 8.1	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 Boot Device Priority: set <Hard Disk Driver> to first Enhance Consumer IR: Enable Intel Rapidstart: Enable Intel Smart Connect: Enable TPM: Enable UEFI Boot: Enabled
Windows 8.1 filter update	WHCK WHQL test	<a href="https://sysdev.microsoft.com/member/SubmissionWizard/LegalExemptions/HCKFilterUpdates.cab">https://sysdev.microsoft.com/member/SubmissionWizard/LegalExemptions/HCKFilterUpdates.cab</a>
Special H/W that use to PASS the test	None	None