



Motherboard Logo Program (MLP)

**Intel® Desktop Board**

**DH87MC**

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**MLP Report**

2/21/2014

**Purpose:**

This report describes the DH87MC Motherboard Logo 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
WHCK	Windows Hardware Certification Kit
MLP	Motherboard Logo Program. For further information see: <a href="http://msdn.microsoft.com/en-us/windows/hardware/gg463010.aspx">http://msdn.microsoft.com/en-us/windows/hardware/gg463010.aspx</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 DH87MC 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)
DH87MC	MCH8710H.86A.0152.2013.1104.2159	N/A - all technologies logo'd
<b>Processor</b>		
Speed	3.5GHz	
Family	Intel Core i7 4770K	
Bus Speed	100 MHz	
<b>Motherboard</b>		
Board AA #	G74242-401	
Board FAB #	400 (eg. 10x for fab A, 20x for fab B and etc)	
* 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.		
<b>System Memory</b>		
Speed	Dual Channel, DDR3, 1600MHz	
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 8.1 64-bit	<input checked="" type="checkbox"/>	Windows 8.1 Professional
Windows 8 64-bit	<input type="checkbox"/>	Windows 8 Professional
Windows 7 and 64-bit	<input type="checkbox"/>	Windows 7 Ultimate Service Pack 1
Windows Vista and 64-bit	<input type="checkbox"/>	Vista Ultimate with Service Pack 2
Windows Vista Basic and 64-bit	<input type="checkbox"/>	Vista Basic with Service Pack 2

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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	V9.4.0.1027	INF_allOS_9.4.0.1027_PV
<b>Graphics</b> Intel® HD Graphics 4600	Windows 8.1 64-bit	V10.18.10.3308	GFX_Win Blue_64_10.18.10.3308_PV
<b>Audio</b> Realtek	Windows 8.1 64-bit	V6.0.1.7090	AUD_Win8.1_Win8_Win7_6.0.1.7090_PV
<b>LAN</b> Intel® Ethernet Connention I217-V	Windows 8.1 64-bit	V12.9.16.0	LAN_Win Blue_12.9.16.0_(18.5)P_V
<b>MEI</b> Intel® Management Engine Interface	Windows 8.1 64-bit	V9.5.15.1730	ME_Win Blue_9.5.15.1730_1.5_M_PV
<b>IRST</b>	Windows 8.1 64-bit	V2.0.0.100	IRST_Win Blue_12.8.0.1016_PV

## Windows Hardware Certification Kit Used (WHCK)

Microsoft website: <http://msdn.microsoft.com/library/windows/hardware/hh833788>

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

Operating Systems	Notes	WHQL Testkit
Windows 8.1 64-bit	WHCK for Windows 8.1	WHCK for Windows 8.1

## Errata and Contingencie

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
Windows 8.1 64-bit	UAA Test (System)	7/1/2014	354	Errata	The FIFO size for Input and Output Stream Descriptors should be read only
Windows 8.1 64-bit	USB3 Termination	4/1/2014	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 contigious 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.
Windows 8.1 64-bit	xHCI Debug Capability Compliance (Logo)	7/31/2014	316	Contingency	The XHCI Debug Capability Compliance Test will fail XHCI controllers that do not provide the debug capability registers.
Windows 8.1 64-bit	Verify Audio EffectsDiscovery (System, Manual)	2/1/2014	2677	Errata	Some drivers will not have implemented the effects discovery feature in time for Win 8.1 ship.

## 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 (Except CIR) 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  Note: Enhanced Consumer IR (CIR) component is not supported under Windows7.
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



