



Windows Hardware Certification (WHC)

Intel® Desktop Board DZ87KLT-75K

Motherboard WHC Report

2/21/2014

Purpose:

This report describes the Windows Hardware Certification testing run conducted by Intel Corporation.

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Introduction

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: http://www.microsoft.com/whdc/hwtest/default.msp
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: http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&cid=105&q=s

Desktop Board Configuration

Desktop Board DZ87KLT-75K Final Configuration Report: Completion of MLP

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

Board Information

Product Code ¹	BIOS String/Model	Technologies NOT Logo'd (yet)
DZ87KLT-75K	KLZ8711D.86A.0446.2013.1104.2023	N/A - all technologies logo'd
Processor		
Speed	3.50 GHz	
Family	Intel® Core™ I7-4770K	
Bus Speed	35x	
Motherboard		
Board AA #	G74721	
Board FAB #	304	
* 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 Channels, DDR3, 1600MHz	
Memory Type	DIMM	
Connector Type	DDR3,240pin	
Power Management		
BIOS Default	S3	
Operating System Tested		
	Check Tested	Comments
Windows 8 64bit	<input checked="" type="checkbox"/>	Windows 8.1 enterprise

¹ 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
Chipset Update Utility Intel® Chipset Software Utility	Windows 8.1 64-bit	9.4.0.1026	9.4.0.1026
Graphics Intel® HD Graphic 4600	Windows 8.1 64-bit	10.18.10.3308	15.33.4.64.3308
Intel Display Audio Intel® Display Audio	Windows 8.1 64-bit	6.16.0.3123	15.33.4.64.3308
Audio Realtek High HD Audio	Windows 8.1 64-bit	6.0.1.7016	PG373
LAN1 Intel® I217V (Clarkville)	Windows 8.1 64-bit	12.9.16.0	PV18.7
LAN2 Intel® I210 (Springville)	Windows 8.1 64-bit	12.8.26.0	PV18.7
IRST Intel® Rapid Storage Technology	Windows 8.1 64-bit	12.8.0.1016	12.8.0.1016
Rapidstart Intel Rapidstart	Windows 8.1 64-bit	3.0.0.1052	3.0.0.1052
Smart Connect Intel Smart Connect	Windows 8.1 64-bit	1.0.8.0	4.2.40.2439
USB3.0 Intel xHCI	Windows 8.1 64-bit	Inbox driver	N/A
MEI Intel® Management Engine Interface	Windows 8.1 64-bit	9.5.14.1724	9.5.14.1724
ASM 1061 SATA Controller	Windows 8.1 64-bit	Inbox driver	N/A
CIR Nuvoton NCT6683D	Windows 8.1 64-bit	2.1.2012.1212	1.02.1002

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	PCI Hardware Compliance Test For Systems	12/31/2014	55	Errata	<h3 xmlns="http://www.w3.org/1999/xhtml">Assertion Assertion 382730D5-AC1A-4C67-A233-83843A4EFC32</h3> Mask Bits register of the MSI Capability table must be read-writable for all the values up-to and including Fh
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. t.
Windows 8.1 64-bit	UAA Test (System)	01/16/2014	235	Errata	UAA test was modified to turn warnings into errors for reserved bits being non-zero. This is a preview filter to allow IHVs to fix the issue
Windows 8.1 64-bit	UAA Test (System)	07/01/2014	354	Contingency	The FIFO size for Input and Output Stream Descriptors should be read only.
Windows 8.1 64-bit	Verify Audio EffectsDiscovery (System manual)	02/01/2014	2677	Errata	Some drivers will not have implemented the effects discovery feature in time for Win 8.1 ship.
Windows 8.1 64-bit	xHCI Debug Capability Compliance (Logo)	07/31/2014	3234	Contingency	The XHCI Debug Capability Compliance Test will fail XHCI controllers that do not provide the debug capability registers.

Test Notes

Operating System	Test	Description
Windows 8.1	BIOS download	Internal: http://bios.intel.com/downloads/ External: http://www.intel.com/ 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 Intel Rapidstart: Enable Intel Smart Connect: Enable CIR: Enable UEFI Boot: Enabled
Windows 8.1 filter update	WHCK/ WHQL test	https://sysdev.microsoft.com/member/SubmissionWizard/LegalExemptions/HCKFilterUpdates.cab
Special H/W that use to PASS the test	None	None