

Previously Logo'd Motherboard Program (PLMP)

Intel® Desktop Board DG43RK

PLMP Report

7/23/2010

Purpose:

This report describes the DG43RK Previously Logo'd Motherboard Program testing run conducted by Intel Corporation.

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Contents

Introduction	4
Terms and Definitions	
Desktop Board Configuration	5
Desktop Board DG43RK Final Configuration Report: Completion of PLMP	5
Board Information	5
Product Code	5
Processor	5
Motherboard	5
System Memory	
Power Management	5
Operating System Tested	
Onboard Integrated Devices and Driver for Windows 7 32-bit and 64-bit	6
Windows Logo Kits Used (WLK)	6
Errata and Contingencies	
Test Notes	9

Introduction

Terms and Definitions

Term	Definitions			
WHQL	Windows* Hardware Qualification Lab			
WLK	Windows Logo Kits			
PLMP	Previously Logo'd Motherboard Program. For further information see: http://www.microsoft.com/whdc/hwtest/default.mspx			
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&g=s			

Desktop Board Configuration

Desktop Board DG43RK Final Configuration Report: Completion of PLMP

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

Board Information

Product Code ¹	BIOS String/Model	Technologies NOT Logo'd (yet)				
DG43RK	RKG4310H.86A.0079.2010.0406.1853	N/A - all technologies logo'd				
Processor						
Speed	3.00 GHz					
Family	Intel® Core™2 Quad					
Bus Speed	1333MHz					
Motherboard						
Board AA #	E78175					
Board FAB #	402					
	es to the production FAB revision; Please co ion you intend to perform logo testing if no	onsult your Intel Corporation representative to clarify the of the same.				
System Memory						
Speed	DUAL Channels, DDR3, 1333MHz					
Memory Type	DIMM					
Connector Type	DDR3,240pin					
Power Management						
BIOS Default	BIOS Default S3					
Operating System	Operating System Tested					
	Check Tested Comments					
Windows 7 and 64-bit	☑	Windows 7 Ultimate				
Windows Vista and 64-bit		Vista Ultimate with Service Pack 2				
Windows Vista Basic and 64-bit	Vista Basic with Service Pack 2					

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 7 32-bit and 64-bit

Technology	OS	Version	Package version
Chipset Update Utility	Windows 7	9.1.1.1025	9.1.1.1025
Intel [®] Chipset Software Utility	Windows 7 64-bit	9.1.1.1025	9.1.1.1025
Graphics	Windows 7	8.15.10.2119	15.17.4.2119
Intel® G45/G43 Express Chipset	Windows 7 64-bit	8.15.10.2119	15.17.4.64.2119
Audio	Windows 7	6.0.1.5964	6.0.1.5964
Realtek	Windows 7 64-bit	6.0.1.5964	6.0.1.5964
LAN	Windows 7	12.4.0.3	V12.1.59.01
Intel® Gigabite Network Connections	Windows 7 64-bit	12.4.0.3	V12.1.59.01

Windows Logo Kits Used (WLK)

Microsoft website: http://www.microsoft.com/whdc/DevTools/WDK/DTM.mspx

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	WLK1.5 for Windows 7	WLK1.5 for Windows 7	
Windows 7 64-bit	WCIVI.5 TO WITHOWS 7	WEIGHTS TO WHITEOWS 7	

Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Туре	Error Description
Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	12/1/2010	1241	Erratum	This happens because the PCI Compliance test assumes that if the Data Link Layer Link Active Reporting Capable bit in the Link Capabilities register for a given PCIe port is set then that indicates that the Data Link Layer Link Active bit will also be set. This is an incorrect assumption because the Data Link Link Layer Link Active bit can be reset when there is no device below the port. This assertion needs to be removed from the PCIHCT. The current architecture of the PCIHCT prevents it from knowing whether devices exist below a bridge/port.
Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	12/1/2010	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	1)Class Driver AC3 Test - Win7 (System)	6/30/2025	1256	Erratum	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.
Windows 7 Windows 7 64-bit	1)UAA Test - Win7 (System)	6/1/2015	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	1)UAA Test - Win7 (System)	6/1/2010	1348	Erratum	Errata 1348 Preview Errata - ASP Channel Mapping The Intel HD Audio DCN 34-A2, HDMI/Multichannel, defines a mapping between digital converter channels and HDMI slots; see section 7.3.3.41 of the DCN. Much of the verbiage is generalized in DCN 36-A to apply equally to DisplayPort slots. The latest versions of all DCNs are posted on Intel's HD Audio standards page: http://www.intel.com/standards/hdaudio/ The default mapping from digital converter channels to slots is expected to be 0> 0, 1> 1, 2> ***3***, 3> ***2***, 4> 4, 5> 5, 6> 6, and 7> 7.
Windows 7 Windows 7 64-bit	1) Graphis HDMI System Test (Manual)	12/31/2010	1945	Erratum	Failure is due to the ELDv2 Portld not matching the graphics adapter LUID. This cannot be enforced currently. In the future, video drivers will be required to program the ELDv2 Portld with either, The AdapterLUID for the corresponding display adapter - OR- 0
Windows 7 Windows 7 64-bit	1)UAA Test - Win7 (System)	7/1/2011	1466	Erratum	Preview Filter: UAA Test - Intel Low Power DCN says "EPSS implies KeepAlive, but only after July 1st 2011"

Windows 7 Windows 7 64-bit	1)UAA Test - Win7 (System)	6/1/2010	1288	Erratum	Error: attempted to set unsupported EPT 0b10 (Reserved); previous value was 0b01 (Reserved); response was 0b10 (Reserved) For unsupported EPTs, the pin must either retain the previous value or take the value of 0b00 (Native). See HD Audio specification section 7.3.3.13.
Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	12/31/2010	753	Erratum	PCI Compliance: Bit range 23:0 (Organizationally Unique Identifier)in the Serial Number 1st DW register (offset 4h) in the Device Serial Number Capability table cannot have a value of 0h as it must contain a value assigned by IEEE.

Test Notes

Operating System	Test	Description
Windows 7	BIOS download	Internal: http://bios.intel.com/downloads/ External: http://www.intel.com/ 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 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</hard></s3>
Windows 7 filter update	WLK WHQL test	http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab
Special H/W that use to PASS the test	None	None