



**Motherboard Logo Program (MLP)**

**Intel® Desktop Board**

**DG41AN**

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**MLP Report**

11/29/2010

**Purpose:**

This report describes the DG41AN 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
WLK	Windows Logo Kits
MLP	Motherboard Logo 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;g=s">http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&amp;cid=105&amp;g=s</a>

# Desktop Board Configuration

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## Desktop Board DG41AN 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)
DG41AN	ANG4110H.86A.0011.2010.0512.1559	N/A - all technologies logo'd
<b>Processor</b>		
Speed	2.83GHz	
Family	Intel® Core™2 Quad	
Bus Speed	1333 MHz	
<b>Motherboard</b>		
Board AA #	E92991	
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>		
<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 7 and 32-bit	<input checked="" type="checkbox"/>	Windows 7 Ultimate
Windows Vista and 64-bit	<input checked="" type="checkbox"/>	Vista Ultimate with Service Pack 2
Windows Vista and 32-bit	<input checked="" type="checkbox"/>	Vista Ultimate 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 Vista 32-bit and 64-bit

Technology	OS	Version	Package version
<b>Chipset Update Utility</b> Intel® Chipset Software Utility	Windows Vista	9.1.1.1016	9.1.1.1025
	Windows Vista 64-bit	9.1.1.1016	9.1.1.1025
<b>Graphics</b> Intel® Graphics Media Accelerator	Windows Vista	8.15.10.2125	15.17.5.2125
	Windows Vista 64-bit	8.15.10.2125	15.17.5.64.2125
<b>Audio</b> Realtek ALC888	Windows Vista	6.0.1.6101	PG299
	Windows Vista 64-bit	6.0.1.6101	PG299
<b>LAN</b> Broadcom 57788	Windows Vista	6.236.0322.2010	N/A
	Windows Vista 64-bit	6.236.0322.2010	N/A

## 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	9.1.1.1024	9.1.1.1024
	Windows 7 64-bit	9.1.1.1024	9.1.1.1024
<b>Graphics</b> Intel® Graphics Media Accelerator	Windows 7	8.15.10.2125	15.17.5.2125
	Windows 7 64-bit	8.15.10.2125	15.17.5.64.2125
<b>Audio</b> Realtek ALC888	Windows 7	6.0.1.6101	PG299
	Windows 7 64-bit	6.0.1.6101	PG299
<b>LAN</b> Broadcom 57788	Windows 7	7.018.0322.2010	N/A
	Windows 7 64-bit	7.018.0322.2010	N/A

## 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>
Windows Vista Windows Vista 64-bit	<a href="#">WLK1.5 for Windows Vista SP2</a>	<a href="#">WLK1.5 for Windows Vista SP2</a>

## Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
Windows Vista Windows Vista 64-bit Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	12/1/2010	1241	Erratum	PCI Compliance - Data Link Layer Link Active Reporting Capable bit is set but Data Link Layer Link Active is not. Assertion 0E36472A-0EDB-4685-A67D-7AF1FFBFA81B
Windows Vista Windows Vista 64-bit Windows 7 Windows 7 64-bit	UAA Test (System)	7/1/2011	1466	Erratum	<b>Issue Description:</b> Preview Filter: UAA Test - Intel Low Power DCN says "EPSS implies KeepAlive, but only after July 1st 2011" <b>Resolution Description:</b> This is an acceptable failure.
Windows Vista Windows Vista 64-bit Windows 7 Windows 7 64-bit	UAA Test (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 Vista Windows Vista 64-bit Windows 7 Windows 7 64-bit	Fidelity Test	1/31/2011	1801	Erratum	There is a test bug which causes the measurement of system noise during Render Power Transition Test to be about 3 dB worse than it should be. This filter forgives errors up to 6 dB.
Windows Vista Windows Vista 64-bit Windows 7 Windows 7 64-bit	<b>Win7:</b> Class Drive Fidelity Test - Win7 <b>Vista:</b> HDAudio Class Driver Fidelity Test - Vista	7/31/2011	598	Erratum	<b>Issue Description:</b> The European Union requires the headphone output level to be $\leq 150$ mVrms for headphone jacks. There's a note in WLP requirement AUDIO-0006 that states, in the presence of regional regulations, the output level requirement for headphones is dropped from $\geq 1000$ mVrms to $\geq 120$ mVrms. This provides freedom for manufacturers to meet both the EU $\leq 150$ mVrms @ 32 Ohms and the WLP $\geq 120$ mVrms @ 32 Ohms requirements. The Fidelity Test tests headphones at 300 Ohm load, though. Without knowledge of the output impedance at the jack, the test cannot extrapolate what the output level at 32 Ohms would have been from the output level at 300 Ohms. The test assumes that the output level at 32 Ohms will be *less* than the output level at 300 Ohms, though. So any measurement $\geq 120$ mVrms at 300 Ohms "could be" a passing result, depending on the output impedance. <b>Resolution Description:</b> This errata covers headphone output level failures where the output level $\geq 120$ mVrms (-45.41 dBV.) 120 mV is -18.42 dBV. Any headphone output level at 32 Ohms that is less than -18.42 dBV is a legitimate failure, even if it is targeted at EU compliance. Any headphone output level greater than 1 Vrms (0.707 Vrms for mobile systems) is a legitimate pass, regardless of EU compliance.
Windows Vista Windows Vista 64-bit Windows 7 Windows 7 64-bit	<b>Win7:</b> Class Drive Fidelity Test - Win7 <b>Vista:</b> HDAudio Class Driver Fidelity Test - Vista	1/31/2011	1801	Erratum	There is a test bug which causes the measurement of system noise during Render Power Transition Test to be about 3 dB worse than it should be. This filter forgives errors up to 6 dB.

## Test Notes

Operating System	Test	Description
<b>Windows 7 and Vista</b>	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
<b>Windows 7 and Vista</b>	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 Chipset Configuration: Enable HPET ACPI Suspend State: Set to <S3 State> Boot Device Priority: set <Hard Disk Driver> to first
<b>Windows 7 and Vista filter update</b>	WLK WHQL test	<a href="http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab">http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab</a>
<b>Special H/W that use to PASS the test</b>	None	None