Motherboard Logo Program (MLP)

Intel® Desktop Board

D2700DC

MLP Report

1/5/2012

Purpose:

This report describes the Board D2700DC Motherboard Logo Program testing run conducted by Intel Corporation.

Contents

Introduction

Terms and Definitions

Term	Definitions
WHQL	Windows* Hardware Qualification Lab
WLK	Windows Logo Kits
MLP	Motherboard Logo 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 D2700DC 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)
D2700DC	MUCDT10N.86A.0067.2011.1227.1232	N/A - all technologies logo'd
Processor		
Speed	2.13GHz	
Family	Intel® Atom CPU D2700	
Bus Speed	1333 MHz	
Motherboard		
Board AA #	G32420	
Board FAB #	502	
* 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 Channel, DDR3, 1333MHz	
Memory Type	DIMM	
Connector Type	DDR3, 240 Pin	
Power Management		
BIOS Default	S3	
Operating System Tested		
	Check Tested	**Comments**
Windows 7 32	☑	Windows 7 Home Premium with Service Pack 1

Onboard Integrated/Add-in Devices and Driver for Windows 7 32-bit

Technology	OS	Version	Package version
Chipset Update Utility Intel® Chipset Software Utility	Windows 7	9.2.2.1034	9.2.2.1034
On-board Graphic Intel® GMA 3600 series	Windows 7	8.14.8.1064	8.14.8.1064

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[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.

On-board Audio Realtek High Definition Audio	**Windows 7**	6.0.1.6526	6526
LAN Intel 82574L Gigabit Network Connection	**Windows 7**	11.14.48.0	11.14.48.0
IRST	**Windows 7**	10.1.0.1008	10.1.0.1008

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	WLK1.6 for Windows 7 SP1	WLK1.6 for Windows 7 SP1

Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
windows 7	Win7: UAA Test - Win7 (System)	06/01/2015	513	Erratum	Issue Description: 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	Win7: UAA Test - Win7 (System)	06/01/2013	Filter 3726	Erratum	Issue Description: HDMI audio devices are backed by video pipes; if a graphics subsystem exposes three output ports, but only has two video pipes, it is not possible to get all three HDMI audio endpoints "active" simultaneously.
windows 7	Win7: UAA Test - Win7 (System)	01/01/2014	Filter 3904	Contingencies	Issue Description: Various Intel HDMI codecs do not correctly default to the specified ASP channel mapping, which switches channels 2 and 3. 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	Win7: UAA Test - Win7 (System)	01/01/2014	Filter 3905	Contingencies	Issue Description: Various Intel HDMI HD Audio codecs do not correctly implement Encoded Packet Type. The Intel HD Audio DCN 35-A, HDMI/High Bit Rate, repurposes bits 0 and 1 of the Pin Widget Control verb to be the Encoded Packet Type (for example, "native" or "high bit rate.") See section 7.3.3.13 of the DCN for further information: http://www.intel.com/standards/hdaudio/ The codec is expected to perform validation on EPT values set in this fashion. From the DCN: If the value written to this control does not correspond to a supported value as defined in the Pin Capabilities parameter,

						the control must either retain the previous value or take the value of 00, which will select the default native audio packet type.
windows 7	Win7: UAA Test - Win7 (System)	03/31/2012	Filter 4119	Contingencies		Issue Description: Specific codecs do not correctly support Input Enable and Output Enable pin widget controls. This results in an attempt to shut off the pin, and it doesn't shut off. The Microsoft audio class driver has other ways of making sure the pins don't make sound, which happen to work for these specific codecs.
windows 7	Win7:Class Driver AC3 Test - Win7 (System)	06/30/2025	1256	Erratum		Issue Description: 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	Win7: Class Drive Fidelity Test - Win7 (System, Manual)	7/31/2015	598	Erratum		Issue Description: The European Union requires the headphone output level to be <= 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 >= 1000 mVrms to >= 120 mVrms. This provides freedom for manufacturers to meet both the EU <= 150 mVrms @ 32 Ohms and the WLP >= 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 >= 120 mVrms at 300 Ohms "could be" a passing result, depending on the output impedance.

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

		TPM: Enable Others: BIOS default setting
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