



Motherboard Logo Program (MLP)

Intel® Desktop Board

DQ965CO

MLP Report

4/22/2008

Purpose:

This report describes the DQ965CO Motherboard Logo Program testing run conducted by Intel Corporation.

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Introduction

Terms and Definitions

Term	Definitions
WHQL	Windows* Hardware Qualification Lab
DTM	Driver Test Manager
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&q=s

Desktop Board Configuration

Desktop Board DQ965C0 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)
DQ965C0	C096510J.86A.6070.2008.0413.2329	N/A - all technologies logo'd
Processor		
Speed	2.66GHz	
Family	Intel® Core™2 Duo	
Bus Speed	1066 MHz	
Motherboard		
Board AA #	D37070	
Board FAB #	507	
* 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, DDR2, 800MHz	
Memory Type	DIMM	
Connector Type	DDR2, 240 Pin	
Power Management		
BIOS Default	S3	
Operating System Tested		
	Check Tested	Comments
Windows XP Pro	<input checked="" type="checkbox"/>	XP Pro with Service Pack 3 RC2
Windows XP Pro 64-bit	<input checked="" type="checkbox"/>	XP Pro with Service Pack 2
Windows Vista	<input checked="" type="checkbox"/>	Vista Ultimate with Service Pack 1
Windows Vista 64-bit	<input checked="" type="checkbox"/>	Vista Ultimate with Service Pack 1
Windows Vista Basic	<input type="checkbox"/>	Vista Basic with Service Pack 1

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.

Windows Vista Basic 64-bit	<input type="checkbox"/>	Vista Basic with Service Pack 1
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Onboard Integrated Devices and Driver for XP Pro 32 and 64bit

Technology	OS	Version
Chipset Update Utility Intel® Chipset Software Utility	Windows XP Pro	8.4.0.1016
	Windows XP Pro 64-bit	8.4.0.1016
Graphics Intel® Graphics Media Accelerator	Windows XP Pro	14.32.3.4906
	Windows XP Pro 64-bit	14.32.3.64.4906
Audio Sigmatel	Windows XP Pro	5762_5713_v68
	Windows XP Pro 64-bit	5762_5713_v68
LAN Intel® PRO Network Connections	Windows XP Pro	12.1
	Windows XP Pro 64-bit	12.1
HECI Intel® Management Engine Interface	Windows XP Pro	2.1.22.1033
	Windows XP Pro 64-bit	2.1.22.1033
AMT Intel® Active Management Technology	Windows XP Pro	5.2.0.1019
	Windows XP Pro 64-bit	5.2.0.1019
TPM ST Micro Trusted Platform Module	Windows XP Pro	1.0.4.14
	Windows XP Pro 64-bit	1.0.4.14

Onboard Integrated Devices and Driver for Vista 32 and 64bit

Technology	OS	Version
Chipset Update Utility Intel® Chipset Software Utility	Windows Vista	8.4.0.1016
	Windows Vista 64-bit	8.4.0.1016
Graphics Intel® Graphics Media Accelerator	Windows XP Pro	15.7.3.1409
	Windows Vista 64-bit	15.7.3.64.1409
Audio Sigmatel	Windows Vista	5762_5713_v68
	Windows Vista 64-bit	5762_5713_v68
LAN Intel® PRO Network Connections	Windows Vista	12.1
	Windows Vista 64-bit	12.1
HECI Intel® Management Engine Interface	Windows Vista	2.1.22.1033
	Windows Vista 64-bit	2.1.22.1033
AMT Intel® Active Management Technology	Windows Vista	5.2.0.1019
	Windows Vista 64-bit	5.2.0.1019
TPM ST Micro Trusted Platform Module	Windows Vista	Native
	Windows Vista 64-bit	Native

Driver Test Manager Used (DTM)

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 XP Pro Windows XP Pro 64-bit	DTM for Windows XP SP3	DTM for Windows XP SP3
Windows Vista Windows Vista 64-bit	DTM for Windows Vista SP1	DTM for Windows Vista SP1

Errata and Contingencies

Operating System	Failing Test	Expiry date	ID Number	Type	Error Description
Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For Systems Running Windows Vista (PCIHCT)	12/31/2008	481	Erratum	ISSUE: PCI Compliance - Message Upper Address register of the MSI Capability table must be read-writable for 64 bit address capable devices. RESOLUTION: The following PCI Compliance test assertion failure is allowed DDC2C294-795E-4587-AF61-33F70362C2AF.
Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For Systems Running Windows Vista (PCIHCT)	1/1/2009	1078	Erratum	The Bit 5 (Surprise Down Error Severity) in the Uncorrectable Error Severity register (offset Ch) in the Advanced Error Reporting Capability table must be read-only and always return 1 if the Bit 5 (Surprise Down Error Mask) in the Uncorrectable Error Mask Register in the Advanced Error Reporting Capability table is not implemented
Windows Vista Windows Vista 64-bit	UAA Test - Vista (System)	7/31/2008	534	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.est assertion failure is allowed DDC2C294-795E-4587-AF61-33F70362C2AF.
Windows Vista Windows Vista 64-bit	UAA Test - Vista (System)	7/31/2008	636	Erratum	Certain HD Audio codecs allow setting unsupported VRef settings in the pin control register. They have hardware validation that prevents the unsupported VRef settings from affecting the actual voltage, but subsequent reads from the pin control register will return values that are out of sync with what the actual voltage is. This requires a hardware fix so the failure is forgiven for these specific codecs. Future designs must advertise the VRefs correctly. The failing test log is UAATest.wtl.
Windows Vista Windows Vista 64-bit	TCG TPM Integration Test	8/31/2008	602	Erratum	The Trusted Computing Group (TCG) specifies guidelines for Platform Configuration Register (PCR) operation within a Trusted Platform Module (TPM). This test, TPMSysInt.exe, has identified an error while attempting to extend a value into PCRs 17 - 22. Windows is expecting the return code TPM_BAD_LOCALITY (TPM_BASE + 61) as defined by the TCG. Windows Vista is currently not using these PCRs. Although Windows Vista is not currently using these PCRs, these PCRs will be in use in the future versions of the operating system. Microsoft highly recommends that this issue be corrected by contacting the TPM or platform manufacturer instead of applying this filter

Test Notes

Operating System	Test	Description
XP and Vista	BIOS download	Internal: http://bios.intel.com/downloads/ External: http://www.intel.com/ click on Support and Download
XP and Vista	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
XP and Vista Filter update	DTM WHQL test	http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab
Special H/W that use to PASS the test	None	None
Vista 64-Bit	LAN driver installation	LAN Driver has to be installed manually. Extract the LAN driver folder and updated the driver directly from device manager.