

# Intel® Desktop Board D975XBX2

Windows Vista Premium Certified

MLP Motherboard Logo Program (MLP) Report

8/22/2007

#### Purpose:

This report describes the D975XBX2 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: <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**

### Desktop Board D975XBX2 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)			
D975XBX2	BX97520J.86A.2777.2007.0805.1747	N/A - all technologies logo'd			
Processor					
Speed	2.40 GHz				
Family	Intel® Core™2 Duo				
Bus Speed	1066 MHz				
Motherboard					
Board AA #	D53347				
Board FAB #	404				
	es to the production FAB revision; Please of ion you intend to perform logo testing if n	consult your Intel Corporation representative to clarify the ot the same.			
System Memory					
Speed	Dual Channel, DDR2, 667	Dual Channel, DDR2, 667			
Memory Type	DIMM				
Connector Type	DDR2, 240 Pin				
Power Management					
BIOS Default S3					
Operating System	Operating System Tested				
	Check Tested	Comments			
Windows XP Pro	Ø	XP Pro with Service e Pack 2			
Windows XP Pro 64-bit	XP Pro with Service Pack 2				
Windows Vista	☑ RTM Build 6000				
Windows Vista 64-bit	RTM Build 6000				
Windows Vista Basic	RTM Build 6000				

<sup>&</sup>lt;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.

Windows Vista	RTM Build 6000
Basic 64-bit	KTT build 0000

## Onboard Integrated Devices and Driver for XP Pro 32 and 64bit

Technology	OS	Version			
Chipset Update Utility	Windows XP Pro	8.1.1.1013			
Intel <sup>®</sup> Chipset Software Utility	Windows XP Pro 64-bit	8.1.1.1013			
Audio	Windows XP Pro	5.10.5511.0			
Sigmatel	Windows XP Pro 64-bit	5.10.5511.0			
LAN	Windows XP Pro	9.8.20.0			
Intel® PRO Network Connections	Windows XP Pro 64-bit	9.8.20.0			
Intel® Management Engine Interface	Windows XP Pro	5.1.2600.2181			
	Windows XP Pro 64-bit	5.1.2600.2181			

## Onboard Integrated Devices and Driver for Vista 32 and 64bit

Technology	OS	Version		
Chipset Update Utility	Windows Vista	8.1.1.1013		
Intel <sup>®</sup> Chipset Software Utility	Windows Vista 64-bit	8.1.1.1013		
Audio	Windows Vista	6.10.5405.0		
Sigmatel	Windows Vista 64-bit	6.10.5405.0		
LAN	Windows Vista	9.8.20.0		
Intel® PRO Network Connections	Windows Vista 64-bit	9.8.20.0		
Intel® Management Engine Interface	Windows Vista	5.1.2600.2181		
	Windows Vista 64-bit	5.1.2600.2181		

# Driver Test Manager Used (DTM)

Microsoft website: <a href="http://www.microsoft.com/whdc/DevTools/WDK/DTM.mspx">http://www.microsoft.com/whdc/DevTools/WDK/DTM.mspx</a>

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	WLK1.0 C for Windows XP SP2	WLK 1.0 C for Windows XP SP2
Windows Vista Windows Vista 64-bit	WLK1.0 C for Windows Vista	WLK 1.0 C for Windows Vista

# Errata / Contingency

#### **Test Notes**

Operating System	Failing Test	Expiry date	ID Number	Туре	Error Description
Window Vista Window Vista 64	Bitlocker Drive Encryption System Partition (Validation)	6/30/2008	610	Erratum	The computer must have at least two volumes to operate: The "Operating System (OS) volume" (or boot volume) is the volume that contains the Windows operating system and its support files The "system volume" is the volume that contains the hardware-specific files that are needed to load Windows computers after the BIOS has booted the platform. For BitLocker to work, the system volume must not be encrypted, must differ from the operating system volume, and must be formatted with NTFS. Your system volume should be at least 1.5 gigabytes (GB).
Window Vista	GlitchFree WMV HD 720p Video Playback quality test	6/16/2008	531	Erratum	NOTE: NOTE: This errata is to cover the issue where this test is failing on ultra mobile and ultra portable Vista Client Premium logo submissions. This test is not expected to pass on Ultra Portable or Ultra Mobile.  SYSFUND062 - This test may have failed due to incorrect settings or the number of glitches during Video Playback exceeded the maximum allowed. This test ensures that Premium Logo Vista machines are capable of playing back HD Video content without glitching. The test case verifies the screen resolution is set to at least 1024x768, DWM is enabled, and that HD 720p video plays back without percievable glitches. This test will be required to pass for Client Premium System logo certification (desktop and mobile only). (br> Common causes of failures:  (br> 1. DWM was disabled: This test requires that DWM (Aero Vista Theme with transparency) be enabled.  (br> 2. The screen resolution is not at least 1024x768.  (br> 3. The hardware is not capable of playing back 720p HD video content.  (br> 4. The hardware drivers installed cause video to glitch with long ISR/DPC times.

Operating System	Failing Test	Expiry date	ID Number	Туре	Error Description
Window Vista 64-bit	System-Tuner- DMA Test; System USB Test(Manual)	9/20/2007	537	Erratum	DTM is unable to locate the correct executable (TvWlpSystemsTests.Exe) on 64-bit systems. As a result, the test is not run and a failure is generated. This filter will suppress the failures, thus enabling partners to Logo. The problem will be rectified in the next release
Window Vista Window 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
Window XP PRO Window XP Pro 64-bit Window Vista Window Vista 64-bit	UAA Test	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.
Window XP PRO Window XP Pro 64-bit Window Vista	UAA Test	7/31/2008	567	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.

Operating System	Test	Description
XP and Vista	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
XP and Vista	BIOS setup	Please make sure the BIOS setting as below.  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>
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