



Motherboard Logo Program (MLP)

Intel® Desktop Board

DX48BT2

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MLP Report

6/17/2008

**Purpose:**

This report describes the DX48BT2 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
DTM	Driver Test Manager
MLP	Motherboard Logo Program. For further information see: <a href="http://www.microsoft.com/whdc/hwtest/default.msp">http://www.microsoft.com/whdc/hwtest/default.msp</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;q=s">http://winqual.microsoft.com/HCL/ProductList.aspx?m=v&amp;cid=105&amp;q=s</a>

# Desktop Board Configuration

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## Desktop Board DX48BT2 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)
DX48BT2	BTX3810J.86A.1554.2008.0501.1628	N/A - all technologies logo'd
<b>Processor</b>		
Speed	3.20 GHz	
Family	Intel® Core™2 Extreme	
Bus Speed	1600 MHz	
<b>Motherboard</b>		
Board AA #	E26191	
Board FAB #	201	
* 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.		
<b>System Memory</b>		
Speed	Dual Channel, DDR3, 1600 MHz	
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 XP Pro	<input checked="" type="checkbox"/>	XP Pro with Service Pack 3
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
Windows Vista Basic 64-bit	<input type="checkbox"/>	Vista Basic with Service Pack 1

<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 XP Pro 32 and 64bit

Technology	OS	Version
Chipset Update Utility Intel® Chipset Software Utility	Windows XP Pro	8.3.1.1010
	Windows XP Pro 64-bit	8.3.1.1010
Audio IDT	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
CIR Transceiver Winbond	Windows XP Pro	N/A
	Windows XP Pro 64-bit	N/A

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

Technology	OS	Version
Chipset Update Utility Intel® Chipset Software Utility	Windows Vista	8.3.1.1010
	Windows Vista 64-bit	8.3.1.1010
Audio IDT	Windows Vista	5762_5713_v68
	Windows Vista 64-bit	5762_5713_v68
LAN Intel® PRO Network Connections	Windows Vista	13.0.1
	Windows Vista 64-bit	13.0.1
CIR Transceiver Winbond	Windows Vista	7.0.65.1002
	Windows Vista 64-bit	7.0.65.1002

## 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	<a href="#">DTM for Windows XP SP3</a>	<a href="#">DTM for Windows XP SP3</a>
Windows Vista Windows Vista 64-bit	<a href="#">DTM for Windows Vista SP1@ WLK1.2</a>	<a href="#">DTM for Windows Vista SP1@ WLK1.2</a>

## Errata and Contingencies

Operating System	Falling Test	Expiry date	ID Number	Type	Error Description
Windows Vista Windows Vista 64-bit	1) Fidelity Test (System, Manual)  2) HDAudio Class Driver Fidelity Test (System, Manual)	8/1/2008	1182	Erratum	The following test cases in Fidelity Test are new for WLK 1.2 and were not previewed in WLK 1.1: * Render System Activity Test * Capture Input Level Test * Capture Skew Test * Capture THD+N Test * Capture Dynamic Range Test * Capture Frequency Response Test
Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For System Running Windows Vista (PCIHCT)	1/1/2009	1078	Erratum	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 0 .
Windows Vista Windows Vista 64-bit	PCI Hardware Compliance Test For System Running Windows Vista (PCIHCT)	12/31/2008	385	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 Vista Windows Vista 64-bit	PCI Hardware Compliance Test For System Running Windows Vista (PCIHCT)	12/31/2008	709	Erratum	Certain devices are known to have incompatibilities with the test causing a system hang during testing. This erratum is for those devices.
Windows Vista Windows Vista 64-bit	UAA Test-Vista(System)	7/31/2008	636	Erratum	Some IDT and Sigmatel (now IDT) codecs don't properly validate VRef controls. For details see the Intel HD Audio specification, sections 7.3.3.13 and 7.3.4.9.  This requires a hardware fix; future designs of these codecs will correctly validate the controls.
Windows Vista Windows Vista 64-bit	UAA Test-Vista(System)	7/31/2009	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.

## Test Notes

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 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	<a href="http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab">http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab</a>
Special H/W that use to PASS the test	None	None