



Previously Logo'd Motherboard Program (PLMP)

# Intel® Desktop Board DQ45CB

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## PLMP Report

3/30/2011

**Purpose:**

This report describes the DQ45CB Previously Logo'd Motherboard 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
PLMP	Previously Logo'd 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 DQ45CB Final Configuration Report: Completion of PLMP

Data in this section reflects system configuration at time of PLMP submission.

### Board Information

Product Code <sup>1</sup>	BIOS String/Model	Technologies NOT Logo'd (yet)
DQ45CB	CBQ4510H.86A.0085.2009.0610.1407	N/A - all technologies logo'd
<b>Processor</b>		
Speed	2.83GHz	
Family	Intel® Core™ 2 Quad Q9550	
Bus Speed	1333 MHz	
<b>Motherboard</b>		
Board AA #	E30148	
Board FAB #	205	
* 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 Channels, DDR2, 800MHz	
Memory Type	DIMM	
Connector Type	DDR2, 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 Vista and 64-bit	<input type="checkbox"/>	Vista Ultimate with Service Pack 2
Windows Vista Basic and 64-bit	<input type="checkbox"/>	Vista Basic 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 Windows 7 32-bit and 64-bit

Technology	OS	Version	Package version
Chipset Update Utility Intel® Chipset Software Utility	Windows 7	9.1.1.1014	9.1.1.1014
	Windows 7 64-bit	9.1.1.1014	9.1.1.1014
Graphics Intel	Windows 7	8.15.10.2104	15.17.3.2104
	Windows 7 64-bit	8.15.10.2104	15.17.3.64.2104
Audio Realtek	Windows 7	6.0.1.5964	5964
	Windows 7 64-bit	6.0.1.5964	5964
LAN Intel 82567LM-3 Gigabit	Windows 7	10.5.1.0	10.5
	Windows 7 64-bit	10.5.1.0	10.5

## 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>

## Errata and Contingencies

Operating System	Failing Test	Expiry Date	ID Number	Type	Error Description
Windows 7 Windows 7 64-bit	TPM TCG OS Interface Test (Manual)	6/1/2015	1775	AutoTriage	Errata 1775 The Physical Presence Lifetime Lock on the TPM 1.2 device was not set during the manufacturing process. Once set, the lifetime lock is permanent, so occasionally platform manufacturers wait until late in platform development to set the value. To pass the TCG TPM Integration Test, the value must be set.
Windows 7 Windows 7 64-bit	TPM TCG OS Interface Test (Manual)	6/1/2010	1776	Erratum	This Preview Test or Test Case is being filtered until the expiration date of this Errata. After the expiration date of this filter these failures must be fixed to have a passing submission. Microsoft strongly recommends that these errors be investigated prior to this test or job being required for submission. Errata 1776 The TPM TCG OS Interface Test is preview for its initial release in WLK 1.5. Microsoft recommends OEMs run the test and fix any issues found.
Windows 7 Windows 7 64-bit	PCI Hardware Compliance Test For Systems	4/22/2010	125	Erratum	Assertion 4BA8F23A-6BB1-48EE-88D8-ED1A3ECD34B9 SSVID register of the Subsystem ID and Subsystem Vendor ID Capability table must be read-only . Assertion 6B0F606E-DBB3-4B8C-8879-32B302412EB8 SSID register of the Subsystem ID and Subsystem Vendor ID Capability table must be read-only . Assertion B576282C-5C66-4253-A275-257F5D49EFEF SSVID register of the Subsystem ID and Subsystem Vendor ID Capability table cannot have a value of 0h. These are valid failures but are not a requirement till January 2009. A filter is being created for the above assertions for this particular device. Added failure: Assertion 7A5587BC-5646-4DC4-9A5D-22F85AB2204E PCI Express ports and bridges must implement Subsystem ID and Subsystem Vendor ID Capability.
Windows 7	PCI Hardware Compliance Test For Systems	12/1/2012	401	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 7 Windows 7 64-bit	UAA Test - Win7 (System)	1/31/2011	3008	Contingencies	Certain ADI audio codecs do not correctly implement PinControls. In particular, setting unsupported VRef settings is not zeroed out in the register. This requires a hardware change. There is hardware validation, so the unsupported settings are not applied. The unsupported VRefs in question are: 0b011 (Reserved) 0b101 (100%) 0b110 (Reserved) 0b111 (Reserved)
Windows 7 Windows 7 64-bit	UAA Test - Win7 (System)	12/1/2010	2439	Contingencies	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 Windows 7 64-bit	UAA Test - Win7 (System)	12/1/2010	2863	Contingencies	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 Windows 7 64-bit	UAA Test - Win7 (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.

## Test Notes

Operating System	Test	Description
Windows 7 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
Windows 7 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
Windows 7 and Vista filter update	WLK 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