

Previously Logo'd Motherboard Logo Program (PLMP)

# Intel® Desktop Board DQ67EP

## PLMP Report

3/30/2011

#### Purpose:

This report describes the DQ67EP Previously Logo'd Motherboard Logo testing run conducted by Intel Corporation.

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## Introduction

#### **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.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 DQ67EP 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	Technologic	es NOT Logo'd (yet)			
DQ67EP	SWQ6710H.86A.0038.2010.1227.1958	N/A - all t	echnologies logo'd			
Processor	Processor					
Speed	3.4GHz					
Family	Intel® Core i7-2600 D2					
Bus Speed	100 MHz					
Motherboard						
Board AA #	G12529					
Board FAB #	300					
	es to the production FAB revision; Please cor ion you intend to perform logo testing if not		ntel Corporation representative to clarify the			
System Memory						
Speed	Dual Channel, DDR3, 1333MHz					
Memory Type	DIMM					
Connector Type	DDR3, 240 Pin					
Power Management						
BIOS Default	BIOS Default S3					
Operating System Tested						
	Check Tested		Comments			
Windows 7 32 and 64-bit	Ø		Windows 7 Ultimate			

<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.

#### Onboard Integrated Devices and Driver for Windows 7 32-bit and 64-bit

Technology	OS	Version	Package version		
Chipset Update Utility	Windows 7	9.2.0.1016	9.2.0.1019		
Intel <sup>®</sup> Chipset Software Utility	Windows 7 64-bit	9.2.0.1016	9.2.0.1019		
On-board GFX	Windows 7	8.15.10.2266	15.21.5.2266		
Intel(R) HD Graphics Family	Windows 7 64-bit	8.15.10.2266	15.21.5.64.2266		
On-board Audio	Windows 7	6.0.1.6257	PG314		
Realtek High Definition Audio	Windows 7 64-bit	6.0.1.6257	PG314		
On-board DP Audio	Windows 7	6.14.0.3074	15.21.5.2266		
Intel(R) Display Audio	Windows 7 64-bit	6.14.0.3074	15.21.5.64.2266		
LAN Intel 82579LM Gigabit Network	Windows 7	11.8.81.0	N/A		
Connection	Windows 7 64-bit	11.8.81.0	N/A		
ME	Windows 7	7.0.0.1144	N/A		
Intel Management Engine	Windows 7 64-bit	7.0.0.1144	N/A		
Interface					
	\				
IRST	Windows 7	10.0.0.1008	N/A		
	Windows 7 64-bit	10.0.0.1008	N/A		
USB 3.0	Windows 7	2.0.26.0	N/A		
Renesas Electronics USB3.0	Windows 7 64-bit	2.0.26.0	N/A		

#### Additional Devices and Driver for Windows 7 32-bit and 64-bit

Technology	OS	Version	Package version
TV Card	Windows 7	1.44.27253.0	N/A
Hauppauge Win TV HVR-1200 PCI-E x1 card	Windows 7 64-bit	1.44.27253.0	N/A

#### Windows Logo Kits Used (WLK)

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 7	WLK1.5 for Windows 7	WLK1.5 for Windows 7
Windows 7 64-bit	WCK1.5 for Willdows 7	WCK1.5 for Willdows 7

### **Errata and Contingencies**

Operating System	Failing Test	Expiry Date	ID Number	Туре	Error Description
Windows 7 Windows 7 64- bit	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 Windows 7 64- bit	Graphics HDMI System Test (Manual)	06/01/2011	1717	Erratum	Issue Description:  GraphicsHDMITest: should ignore pin widgets that have "Port Connectivity" set to "No Physical Connection"
Windows 7 Windows 7 64- bit	PCI Hardware Compliance Test For Systems)	06/01/2011	923	Erratum	Issue Description:  Assertion FAE18121-9177-4FB2-A081- 0D04C285EFF2 Bit range 15:0 (Extended Capability ID)in the Enhanced Capability Header register (offset 0h) in the Unrecognized Enhanced Capability ID 13 table is Dh. It must be in the range [0x0 - 0xB] as all other Capability IDs are reserved.
Windows 7 Windows 7 64- bit	PCI Hardware Compliance Test For Systems)	12/01/2012	1241	Erratum	Issue Description: This happens because the PCI Compliance test assumes that if the Data Link Layer Link Active Reporting Capable bit in the Link Capabilities register for a given PCIe port is set then that indicates that the Data Link Layer Link Active bit will also be set. This is an incorrect assumption because the Data Link Link Layer Link Active bit can be reset when there is no device below the port. This assertion needs to be removed from the PCIHCT. The current architecture of the PCIHCT prevents it from knowing whether devices exist below a bridge/port.
Windows 7 Windows 7 64- bit	PCI Hardware Compliance Test For Systems)	06/01/2011	401	Erratum	Issue Description: 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	PCI Hardware	12/31/2011	2051	Erratum	Issue Description:

Windows 7 64- bit	Compliance Test For Systems)				PCIHCT - Bit range 11:10 (ASPM Support)in the Link Capabilities register (offset Ch) in the PCI Express Capability table is Oh. It cannot be in the set of values {0x0, 0x2}. (Assertion 5CAF4993-B8D1-4E4E-99EC-CC5895364E32)
Windows 7 Windows 7 64- bit	PCI Hardware Compliance Test For Systems)	06/01/2011	423	Erratum	Issue Description:  Assertion 5CAF4993-B8D1-4E4E-99EC-CC5895364E32 Bit range 11:10 (ASPM Support)in the Link Capabilities register (offset Ch) in the PCI Express Capability table is 0h. It cannot be in the set of values {0x0, 0x2}.
Windows 7 Windows 7 64- bit	UAA Test - Win7 (System)	12/31/2011	1670	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 Windows 7 64- bit	UAA Test - Win7 (System)	06/01/2011	1300	Erratum	Issue Description:  HD Audio pin configuration document calls out setting Port Connectivity to No Connection as the way to turn a pin off in a particular system. UAA Test incorrectly tests such pins.
Windows 7 Windows 7 64- bit	UAA Test - Win7 (System)	07/01/2011	1466	Erratum	Issue Description:  Preview Filter: UAA Test - Intel Low Power DCN says "EPSS implies KeepAlive, but only after July 1st 2011"
Windows 7 Windows 7 64-bit	UAA Test - Win7 (System)	02/28/2011	1299	Erratum	Issue Description:  Preview filter - Jack Detect Override on digital pin widgets Errata 1299 The HD Audio configuration default register (7.3.3.31 in the HD Audio specification) includes a "Jack Detect Override" flag that can be used to indicate that although a pin widget would normally be capable of jack detection, there is something about this particular system that causes this to be impossible. This was intended to be used, for example, for analog pin widgets that are connected to RCA jacks, which do not allow for impedance detection. Some digital pin widgets are using the Presence Detect pin sense response to indicate that a digital handshake has occured - indeed, HDMI pins have entire DCNs built around this concept, and it applies equally well to S/PDIF pins. A digital converter that supports presence detection should be able to do so in any system, so the "Jack Detect Override" concept should not apply to digital pins.
Windows 7	UAA Test - Win7	06/01/2015	513	Erratum	Issue Description:

Windows 7 64- bit	(System)				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 readonly. 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 Windows 7 64- bit	Graphics HDMI System Test (Manual)	12/31/2011	3272	Filter	Issue Description:  HDMI audio codecs sometimes expose more HDMI audio pins (audio outputs) than can be plugged in at any given time, due to resource costraints in the video hardware.  Test will need to be rejiggered to allow testing each in turn.

#### **Test Notes**

Operating System	Test	Description
Windows 7	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	BIOS setup	Please make sure the BIOS setting are as below, otherwise use default settings.  System Date and Time: Current date and time Trusted Platform Module: 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