



Motherboard Logo Program (MLP)

Intel® Desktop Board

DG41MJ

MLP Report

9/21/2009

Purpose:

This report describes the DG41MJ Motherboard Logo Program 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 |
| MLP | Motherboard Logo Program. For further information see: http://www.microsoft.com/whdc/hwtest/default.msp |
| 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 DG41MJ 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) |
| DG41MJ | MJG4110H.86A.0003.2009.0313.1434 | N/A - all technologies logo'd |
| Processor | | |
| Speed | 3.0GHz | |
| Family | Intel® Core™2 Quad | |
| Bus Speed | 1333 MHz | |
| Motherboard | | |
| Board AA # | E54659 | |
| Board FAB # | 204 | |
| * 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 7 and 64-bit | <input checked="" type="checkbox"/> | Windows 7 Ultimate |
| Windows Vista and 64-bit | <input checked="" type="checkbox"/> | Vista Ultimate with Service Pack 1 |
| Windows Vista Basic and 64-bit | <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.

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

| Technology | OS | Version | Package version |
|---|----------------------|-----------------|-----------------|
| Chipset Update Utility Intel® Chipset Software Utility | Windows Vista | 9.0.0.1009 | 9.0.0.1011 |
| | Windows Vista 64-bit | 9.0.0.1009 | 9.0.0.1011 |
| Graphics Intel® Graphics Media Accelerator | Windows Vista | 7.15.10.1624 | 15.11.5.1624 |
| | Windows Vista 64-bit | 7.15.10.1624 | 15.11.5.64.1624 |
| Audio Realtek | Windows Vista | 6.0.1.5783 | 5783 |
| | Windows Vista 64-bit | 6.0.1.5783 | 5783 |
| LAN Realtek | Windows Vista | 6.214.1211.2008 | 6.214 |
| | Windows Vista 64-bit | 6.214.1211.2008 | 6.214 |

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 | 6.1.7100.0 | Inbox Driver |
| | Windows 7 64-bit | 6.1.7100.0 | Inbox Driver |
| Graphics Intel® Graphics Media Accelerator | Windows 7 | 8.15.10.1808 | 15.15.0.1808 |
| | Windows 7 64-bit | 8.15.10.1808 | 15.15.64.1808 |
| Audio Realtek | Windows 7 | 6.0.1.5859 | 5859 |
| | Windows 7 64-bit | 6.0.1.5859 | 5859 |
| LAN Realtek | Windows 7 | 7.3.522.2009 | 7.003 |
| | Windows 7 64-bit | 7.3.522.2009 | 7.003 |

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 | WLK1.4 for Windows 7 | WLK1.4 for Windows 7 |
| Windows Vista Windows Vista 64-bit | WLK1.4 for Windows Vista SP1 | WLK1.4 for Windows Vista SP1 |

Errata and Contingencies

| Operating System | Failing Test | Expiry Date | ID Number | Type | Error Description |
|-------------------------------|---|-------------|-----------|---------|---|
| Windows 7 Windows 7 64-bit | 1)Class Driver Fidelity Test - Win7 (System, Manual) 2)Fidelity Test - Win7 (System, Manual) | 12/31/2009 | 1547 | Erratum | Fidelity Test now includes a "Render Power Transition" test. This preview filter covers all errors in this new test of SYSFUND-0050. |
| Windows 7 Windows 7 64-bit | PCI Hardware Compliance Test For Systems | 12/31/2009 | 759 | Erratum | ISSUE: PCI Compliance - Bit range 11:10 (ASPM Support)in the Link Capabilities register (offset Ch) in the PCI Express Capability table must be read-only. RESOLUTION: The following PCI Compliance failure assertion is allowed 4D19D0E6-51CC-49CF-8459-31AAA0587E4B. |
| Windows 7 Windows 7 64-bit | PCI Hardware Compliance Test For Systems | 12/31/2009 | 884 | Erratum | Assertion 3EF27DC9-463F-4712-857B-0321832E7383 Bit range 23:0 (Organizationally Unique Identifier)in the Serial Number 1st DW register (offset 4h) in the Device Serial Number Capability table cannot have a value of 0h as it must contain a value assigned by IEEE. |
| Windows 7 Windows 7 64-bit | PCI Hardware Compliance Test For Systems | 06/01/2010 | 1543 | Erratum | 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 | UAA Test - Win7 (System) | 12/01/2009 | 1394 | 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. |
| Windows 7 Windows 7 64-bit | UAA Test - Win7 (System) | 07/01/2011 | 1793 | Erratum | Preview filter - Keepalive on low power digital outputs |
| Windows 7 Windows 7 64-bit | UAA Test - Win7 (System) | 06/01/2010 | 1794 | Erratum | UAA Test wrongly tests pin widgets that have their Configuration Default register's Port Connectivity field set to No Connection. |
| Windows 7 64-bit | Wave Test - Win 7 (System) | 06/01/2010 | 1584 | Erratum | Run "Data Intersection Test\Capture Streaming\Check Supported Formats" out of WaveTest on a system containing audio devices that are "disabled" via the Sound Control panel. Expected results: should succeed. Actual results: fail with "Failed to find any endpoints for the current pin" and "Failed to decide if current data intersection test should be skipped" |

Test Notes

| Operating System | Test | Description |
|---------------------------------------|---------------|---|
| Windows 7 and Vista | BIOS download | Internal: http://bios.intel.com/downloads/ External: http://www.intel.com/ 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 (Except CIR) 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 Note: Enhanced Consumer IR (CIR) component is not supported under Windows7. |
| Windows 7 and Vista 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 |