



Motherboard Logo Program (MLP)

Intel® Desktop Board

DG965WH

MLP Report

4/1/2008

Purpose:

This report describes the DG965WH Motherboard Logo Program testing run conducted by Intel Corporation.

THIS TEST REPORT IS PROVIDED "AS IS" WITH NO WARRANTIES WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY, NONINFRINGEMENT FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY WARRANTY OTHERWISE ARISING OUT OF ANY PROPOSAL, SPECIFICATION OR SAMPLE.

Information in this document is provided in connection with Intel® products. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by the sale of Intel products. Except as provided in Intel's Terms and Conditions of Sale for such products, Intel assumes no liability whatsoever, and Intel disclaims any express or implied warranty, relating to sale and/or use of Intel products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright or other intellectual property right. Intel products are not intended for use in medical, life saving, or life sustaining applications.

Intel retains the right to make changes to its test specifications at any time, without notice.

The hardware vendor remains solely responsible for the design, sale and functionality of its product, including any liability arising from product infringement or product warranty.

Intel and Pentium are registered trademarks of Intel Corporation in the United States and other countries.

* Other names and brands may be claimed as the property of others.

Copyright © 2007 Intel Corporation. All rights reserved.

Contents

- Introduction4**
- Terms and Definitions.....4
- Desktop Board Configuration5**
- Desktop Board DG965WH Final Configuration Report: Completion of MLP5
- Board Information.....5
- Product Code.....5
- Processor5
- Power Management.....5
- Operating System Tested.....5
- Onboard Integrated Devices and Driver6
- Driver Test Manager Used (DTM).....7
- Errata and Contingencies.....7
- Test Notes.....8

Introduction

Terms and Definitions

| Term | Definitions |
|--------------------------|---|
| WHQL | Windows* Hardware Qualification Lab |
| DTM | Driver Test Manager |
| 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 DG965WH 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) |
|--|-------------------------------------|------------------------------------|
| DG965WH | MQ96510J.86A.1719.2007.1216.0002 | N/A - all technologies logo'd |
| Processor | | |
| Speed | 2.66GHz | |
| Family | Intel® Core™2 Duo | |
| Bus Speed | 1066 MHz | |
| Motherboard | | |
| Board AA # | D41692 | |
| Board FAB # | 310 | |
| * 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 XP Pro | <input checked="" type="checkbox"/> | XP Pro with Service Pack 3 RC2 |
| 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 |

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.

| | | |
|----------------------------|--------------------------|---------------------------------|
| Windows Vista Basic 64-bit | <input type="checkbox"/> | Vista Basic with Service Pack 1 |
|----------------------------|--------------------------|---------------------------------|

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

| Technology | OS | Version |
|---|-----------------------|-----------------|
| Chipset Update Utility Intel® Chipset Software Utility | Windows XP Pro | 8.4.0.1016 |
| | Windows XP Pro 64-bit | 8.4.0.1016 |
| Graphics Intel® Graphics Media Accelerator | Windows XP Pro | 14.32.3.4906 |
| | Windows XP Pro 64-bit | 14.32.3.64.4906 |
| Audio Sigmatel | 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 |
| HECI Intel® Management Engine Interface | Windows XP Pro | 2.1.22.1033 |
| | Windows XP Pro 64-bit | 2.1.22.1033 |

Onboard Integrated Devices and Driver for Vista 32 and 64bit

| Technology | OS | Version |
|---|-----------------------|----------------|
| Chipset Update Utility Intel® Chipset Software Utility | Windows Vista | 8.4.0.1016 |
| | Windows Vista 64-bit | 8.4.0.1016 |
| Graphics Intel® Graphics Media Accelerator | Windows XP Pro | 15.7.3.1409 |
| | Windows XP Pro 64-bit | 15.7.3.64.1409 |
| Audio Sigmatel | Windows Vista | 5762_5713_v68 |
| | Windows Vista 64-bit | 5762_5713_v68 |
| LAN Intel® PRO Network Connections | Windows Vista | 12.1 |
| | Windows Vista 64-bit | 12.1 |
| HECI Intel® Management Engine Interface | Windows XP Pro | 2.1.22.1033 |
| | Windows XP Pro 64-bit | 2.1.22.1033 |

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 | DTM for Windows XP SP3 | DTM for Windows XP SP3 |
| Windows Vista Windows Vista 64-bit | DTM for Windows Vista SP1 | DTM for Windows Vista SP1 |

Errata and Contingencies

| Operating System | Falling Test | Expiry date | ID Number | Type | Error Description |
|---------------------------------------|---|-------------|-----------|---------|--|
| Windows Vista Windows Vista 64-bit | PCI Hardware Compliance Test For Systems Running Windows Vista (PCIHCT) | 3/5/2008 | 990 | Erratum | The 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 1 if the Bit 5 (Surprise Down Error Mask) in the Uncorrectable Error Mask Register in the Advanced Error Reporting Capability table is not implemented |
| Windows Vista Windows Vista 64-bit | UAA Test - Vista (System) | 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. |
| Windows Vista Windows Vista 64-bit | UAA Test - Vista (System) | 7/31/2008 | 636 | 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. |

Test Notes

| Operating System | Test | Description |
|---------------------------------------|-------------------------|---|
| XP and Vista | BIOS download | Internal: http://bios.intel.com/downloads/ External: http://www.intel.com/ 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 | http://winqual.microsoft.com/member/SubmissionWizard/LegalExemptions/filterupdates.cab |
| Special H/W that use to PASS the test | None | None |
| Vista 64-Bit | LAN driver installation | LAN Driver has to be installed manually. Extract the LAN driver folder and updated the driver directly from device manager. |