



Previously Logo'd Motherboard Logo Program (PLMP)

# Intel® Desktop Board

## DH67CF

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# PLMP Report

3/30/2011

**Purpose:**

This report describes the DH67CF Previously Logo'd 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   |
| 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 DH67CF 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)      |
| DH67CF  | BLH6710H.86A.0078.2010.1118.1944    | N/A - all technologies logo'd      |
| <b>Processor</b>  |                                     |                                    |
| Speed   | 3.40GHz                             |                                    |
| Family  | Intel Core i7 CPU 2600              |                                    |
| Bus Speed   | 100 MHz                             |                                    |
| <b>Motherboard</b>  |                                     |                                    |
| Board AA #  | AA G10215-200                       |                                    |
| Board FAB #   | B                                   |                                    |
| <i>* 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.</i> |                                     |                                    |
| <b>System Memory</b>  |                                     |                                    |
| Speed   | Dual Channel, DDR3, 1333MHz         |                                    |
| 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 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                     |
|--|------------------|---------------|-------------------------------------|
| <b>Chipset Update Utility</b><br>Intel® Chipset Software Utility | Windows 7        | V9.2.0.1015   | INF_allIOS_9.2.0.1015_PV            |
|  | Windows 7 64-bit | V9.2.0.1015   | INF_allIOS_9.2.0.1015_PV            |
| <b>Graphics</b><br>Intel® HD Graphics Family                     | Windows 7        | V8.15.10.2238 | GFX_Vista32_Win7_32_8.15.10.2238_PV |
|  | Windows 7 64-bit | V8.15.10.2238 | GFX_Vista64_Win7_64_8.15.10.2238_PV |
| <b>Audio</b><br>Realtek High Definition Audio                    | Windows 7        | V6.0.1.6236   | AUD_Vista_Win7_6.0.1.6236_PV        |
|  | Windows 7 64-bit | V6.0.1.6236   | AUD_Vista_Win7_6.0.1.6236_PV        |
| <b>LAN</b><br>Intel® 82579V Gigabit Network Connection           | Windows 7        | V11.8.81.0    | LAN_allIOS_11.8.81.0_P V11.8.74.0   |
|  | Windows 7 64-bit | V11.8.81.0    | LAN_allIOS_11.8.81.0_P V            |
| <b>MEI</b><br>Intel® Management Engine Interface                 | Windows 7        | V7.0.0.1118   | MEI_allIOS_7.0.1.1141_PV            |
|  | Windows 7 64-bit | V7.0.0.1118   | MEI_allIOS_7.0.1.1141_PV            |
| <b>CIR</b><br>Nuvoton W836x 7HG CIR Device Driver                | Windows 7        | V2.2.2010.714 | CIR_Win7_2.2.2010.0714_PV           |
|  | Windows 7 64-bit | V2.2.2010.714 | CIR_Win7_2.2.2010.0714_PV           |

## 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<br>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<br>Windows 7 64-bit | Class Driver AC3 Test - Win7 (System)    | 6/30/2025   | 1256      | Erratum | 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<br>Windows 7 64-bit | Graphics HDMI System Test (Manual)       | 6/1/2011    | 1717      | Erratum | GraphicsHDMITest: should ignore pin widgets that have "Port Connectivity" set to "No Physical Connection"   |
| Windows 7<br>Windows 7 64-bit | Graphics HDMI System Test (Manual)       | 12/31/2011  | 1666      | Erratum | graphics-hdmi-test-intel-two-of-three   |
| Windows 7<br>Windows 7 64-bit | Graphics HDMI System Test (Manual)       | 6/1/2011    | 1945      | Erratum | Failure is due to the ELDv2 PortId not matching the graphics adapter LUID. This cannot be enforced currently. In the future, video drivers will be required to program the ELDv2 PortId with either, The AdapterLUID for the corresponding display adapter - OR- 0  |
| Windows 7<br>Windows 7 64-bit | PCI Hardware Compliance Test For Systems | 6/1/2011    | 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<br>Windows 7 64-bit | PCI Hardware Compliance Test For Systems | 6/1/2011    | 923       | Erratum | 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<br>Windows 7 64-bit | PCI Hardware Compliance Test For Systems | 12/1/2012   | 1241      | 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. |

| Operating System              | Failing Test             | Expiry Date | ID Number | Type    | Error Description  |
|-------------------------------|--------------------------|-------------|-----------|---------|--|
| Windows 7<br>Windows 7 64-bit | UAA Test - Win7 (System) | 6/1/2011    | 1300      | Erratum | 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<br>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.  |
| Windows 7<br>Windows 7 64-bit | UAA Test - Win7 (System) | 2/28/2011   | 1299      | Erratum | Preview filter - Jack Detect Override on digital pin widgets<br>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 occurred - 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<br>Windows 7 64-bit | UAA Test - Win7 (System) | 12/31/2011  | 1666      | Erratum | graphics-hdmi-test-intel-two-of-three  |



## 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><br>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.<br><br>System Date and Time: Current date and time<br>Peripheral Configuration: Enable all onboard component (Except CIR)<br>Drive Configuration: Set to AHCI<br>Chipset Configuration: Enable HPET<br>ACPI Suspend State: Set to <S3 State><br>Boot Device Priority: set <Hard Disk Driver> to first<br><br>Note: Enhanced Consumer IR (CIR) component is not supported under Windows7. |
| 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   |