PRODUCTS: DH55TC, DH55HC, DH55PJ (Standard BIOS)

BIOS Version 0035 - TCIBX10H.86A.0035.2010.0429.1516

About This Release:
- April 29, 2010
- Integrated Graphics Option ROM Revision on HC/TC: 2009
- Integrated Graphics Option ROM Revision on PJ: 2009
- PXE LAN Option ROM Revision: PXE 2.1 Build 088, v1.3.37
- ME Firmware: 8MB SKU 6.1.0.1042
- MEBx Code: Based on Version 6.1.0.0005

New Fixes/Features:
- Fixed issue where no video is displayed if both PCI and PCI-e VGA cards are attached and primary video output is set to integrated graphics.
- Updated ME F/W to 6.1.0.1042.
- Updated MEBx to 6.1.0.0005.
- Updated processor support.
- Updated VBIOS to 2009.
- Updated QST payload to fix wrong description of fan-headers in BIOS setup and Intel® Desktop Utilities.
- Fixed issue where memory slot information of SMBIOS is not correct.
- Corrected memory over voltage setting on older boards.
- Changed default setting of ASPM support to disable.
- Improved primary video detection.
- Fixed serial modem S1/S3 wake-up issue.
- Fixed issue where system does not boot normally to the operating system when using external VGA cards.
- Added support for processor "Maximum Non-Turbo Ratio" in Performance Page in BIOS setup menu.
- Fixed wrong setting GPIO30.
- Fixed issue where Video Configuration loses item Primary Video Adaptor in BIOS setup menu.
- Fixed wrong OEM Table ID for ACPI table.
- Improved monitor not staying at sleep state when resuming from S1/S3.
- Reduced BIOS update time when ME F/W revisions are the same.
- Improved the primary video detection algorithm to reduce S3 resume time.
- Improved memory over voltage setting to fix noise during POST.
- Enabled chipset ASPM support.
- Removed MCH temperature monitor in setup menu.
- Fixed issue where Wake on LAN still works after G3 when set to stay off.
- Fixed issue where some add-on cards not detected when plugged into PCI-e x1 slot.

- Fixed an issue where some PCI-e x1 cards would not work when plugged into the PCI-e x16 slot.
- Fixed the GMA control panel showing max graphics memory as only 256MB.
- Fixed issue where processor L2 cache size information is not shown correctly in BIOS.
- Fixed system hang when non-bootable media with invalid MBR is inserted and its boot priority is first.
- Fixed Rear/Front fan duty cycle setting swapped.
- Fixed issue where system is unbootable when disabling "Intel ME State Control" in MEBx.
- Fixed issue where some PCIe x16 GFX cards will show yellow-bang for Intel Display Audio under Windows XP*.
- Fixed system hangs on S4 resume.
- Fixed issue where system will auto resume after multiple USB keyboard/mouse clicks on entering S4.
- Fixed issue where USB mass storage devices would be higher than others in hard drive boot order under AHCI mode.
- Fixed issue where Wake On Lan for S3/S4 could not be disabled through Power Management in Device Manager.
- Corrected SMBIOS on-board device information.
- Fixed issue where wake from Serial Modem could not be disabled.
- Fixed issue where certain PCI VGA card would not work.
- Fixed system paused at 0xEB for extended period with the certain card readers.
- Fixed wrong beep and LED blink pattern for CPU thermal trip warning.
- Added support for Backwards Compatibility mode for USB.
- Fixed issue where PS/2 devices are able to wake the system even if disabled their capability in Device Manager.

BIOS Version 0028 – TCIBX10H.86A.0028.2009.1201.1520

About This Release:
- December 01, 2009
- Integrated Graphics Option ROM Revision: 1931
- PXE LAN Option ROM Revision: PXE 2.1 Build 088, v1.3.37
- ME Firmware: 8MB SKU 6.0.2.1194
- MEBx Code: Based on Version 6.0.3.0019

New Fixes/Features:
- Updated processor support.
- Extended the lengths of SMBIOS type 1 and type 3 strings fields.
- Improved the function of wake-on-LAN after G3 (AC power failure).
- Improved potential security problems.
- Changed Full Test Counter to '0' in FITC utility.
- Updated VBIOS to version: 1931.
- Updated ME F/W to version: 1194.
- Fixed issue of wrong boot device priority when AHCI mode is enabled.
- Improved the Memory OC programming.

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

- Fixed Power LED Indicator failure when putting system into S1/S3 on the second time.
- Changed SMBIOS type 10 on-board device name string of IGD.

BIOS Version 0026 - TCIBX10H.86A.0026.2009.1113.1720

About This Release:
- November 13, 2009
- Integrated Graphics Option ROM Revision: 1914
- PXE LAN Option ROM Revision: PXE 2.1 Build 088, v1.3.37
- ME Firmware: 8MB SKU 6.0.0.1184
- MEBx Code: Based on Version 6.0.3.0019

New Fixes/Features:
- Fixed issue with PAVP mode Enable.
- Updated PCH/MCH reference code to the latest revision to include SPEC update.
- Updated values of CPU family for SMBIOS type4.
- Updated SMBIOS type131.
- Removed EDID checking to solve some HDMI receivers not displaying correctly.
- Changed setup options of "Memory Multiplier".
- Changed prompt message after recovery flash completes.
- Added Front Fan and Rear Fan Duty Cycle setup option into Fan Control page.
- Fixed issue where Memory Multiplier and Memory Speed not showing correctly in Performance page.
- Fixed issue where user payload update not working.
- Fixed issue where RCRB+2120h[16] not setting correctly.
- Updated MEBX to version: 0019.
- Updated SMBIOS CPU cache information.
- Updated PCH reference code to the latest label.
- Fixed issue where system cannot boot after changing Host-Clock Frequency.
- Removed supporting of non-reboot flashing method.
- Added supporting of adjusting Memory timing for both LFD and CKD.
- Hid setup options of Processor ratio override.
- Updated VBIOS to version: 1914.
- Updated LFD MRC to version:1.20.
- Updated GPIO57 of PCH to GPO(L).
- Updated SATA GEN1 register settings.
- Updated SMBIOS type4 and type7 data.
- Changed detection of Chassis Intrusion to use CASEOPEN# of SIO.
- Changed default setting of "Detect Missing Fans" to "Log Only".
- Fixed wrong settings of GPIO72 to PCH and GP55 to SIO on S4/S5.
- Added workaround for Display Flicker in FITC utility.
- Removed unused microcode.
- Changed Lock Mask to unlock Manual Fan Control and Thresholds for the QST configuration.

```
BIOS Version 0020 - TCIBX10H.86A.0020.2009.1019.2043
```

About This BIOS:
- October 19, 2009
- Integrated Graphics Option ROM Revision: 1890 PC 14.34
- PXE LAN Option ROM Revision: PXE 2.1 Build 088, v1.3.37
- ME Firmware: 8MB SKU 6.0.0.1184
- MEBx Code: Based on Version 6.0.3.0018

New Fixes/Features:
- Initial production BIOS release

LEGAL INFORMATION

Information in this document is provided in connection with Intel Products and for the purpose of supporting Intel developed server/desktop boards and systems.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. 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 Corporation may have patents or pending patent applications, trademarks, copyrights, or other intellectual property rights that relate to the presented subject matter. The furnishing of documents and other materials and information does not provide any license, express or implied, by estoppel or otherwise, to any such patents, trademarks, copyrights, or other intellectual property rights. Intel products are not intended for use in medical, life saving, or life sustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel is a trademark of Intel Corporation in the US and other countries.
Copyright (c) 2010 Intel Corporation.

```
BIOS Version 0020 - TCIBX10H.86A.0020.2009.1019.2043
```

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