



BIOS Update Release Notes

PRODUCTS: DH55TC, DH55HC, DH55PJ (Standard BIOS)

BIOS Version 0039 - TCIBX10H.86A.0039.2010.0722.1419

About This Release:

- July 22, 2010
- Integrated Graphics Option ROM Revision on HC/TC: 2017 PC 14.34
- Integrated Graphics Option ROM Revision on PJ: 2009 PC 14.34
- 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:

- Added an option for "Power On - PXE Boot" to setup item "Wake on LAN from S5".
- Fixed issue with boot password error when using PS/2 keyboard attached to certain KVMs.

BIOS Version 0038 - TCIBX10H.86A.0038.2010.0624.1337

About This Release:

- June 24, 2010
- Integrated Graphics Option ROM Revision on HC/TC: 2017 PC 14.34
- Integrated Graphics Option ROM Revision on PJ: 2009 PC 14.34
- 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:

- Updated PCH reference code to the latest label.
- Updated MCH reference code to the latest label.
- Fixed issue where USB port #1 and #2 do not work in the operating system Backwards Compatibility Mode is enabled.
- Fixed issue where Hard Disk Pre-delay option in BIOS setup does not work in AHCI mode.
- Fixed issue where Intel Display Audio is not disabled when a PCI Express x16 graphics card is installed.

BIOS Version 0036 - TCIBX10H.86A.0036.2010.0525.1620

About This Release:

- May 25, 2010
- Integrated Graphics Option ROM Revision on HC/TC: 2017 PC 14.34
- Integrated Graphics Option ROM Revision on PJ: 2009 PC 14.34
- 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

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

New Fixes/Features:

- Updated PCH reference code to the latest label.
- Updated MCH reference code to the latest label.
- Updated processor support.
- Updated VBIOS to v2017.
- Fixed issue where some cards plugged into PCI Express slot do not work at runtime.
- Added support for dual-display function.
- Fixed issue with wrong system memory map when Intel ME firmware is disabled.

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.

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- 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.

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- Fixed issue of wrong boot device priority when AHCI mode is enabled.
- Improved the Memory OC programming.
- 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.

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- 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

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