



## BIOS Update Release Notes

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### PRODUCTS: DG41TY (Standard BIOS)

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**BIOS Version 0037 - TYG4110H.86A.0037.2009.1216.1331**

**About This Release:**

- December 16, 2009
- Integrated Graphics Option ROM Revision: 1666 PC 14.34
- PXE LAN Option ROM Revision: PXE-2.1 build 082,V2.20,080826

**New Fixes/Features:**

- Implemented Security Phase 2.

**BIOS Version 0036 - TYG4110H.86A.0036.2009.1126.2047**

**About This Release:**

- November 26, 2009
- Integrated Graphics Option ROM Revision: 1666 PC 14.34
- PXE LAN Option ROM Revision: PXE-2.1 build 082,V2.20,080826

**New Fixes/Features:**

- Fixed display warning messages after installing the INI file generated from Intel® Integrator Toolkit.
- Fixed failure of system hangs on code 51 during the POST with certain keyboards.
- Updated CPU cache & MTRR related code to the latest version.
- Enabled the wake function of "EHCI Controller".
- Improved the BBS function.
- Fixed issue with slow boot when using a USB card reader.

**BIOS Version 0033**

**About This Release:**

- September 28, 2009
- TYG4110H.86A.0033.2009.0928.1845
- Integrated Graphics Option ROM Revision: 1666 PC 14.34
- PXE LAN Option ROM Revision: PXE-2.1 build 082,V2.20,080826

**New Fixes/Features:**

- Implemented BIOS downgrade protection.
- Added check for Hotkey before User Password input.
- Fixed LAN PCIHCT failure.
- Updated setup items for fan current information.
- Fixed operating system issue with four 4GB memory modules.
- Changed ACPI \_PWR method from "4" to "3" for all USB controllers.

**BIOS Version 0031**

**About This Release:**

- June 26, 2009
- TYG4110H.86A.0031.2009.0626.1405
- Integrated Graphics Option ROM Revision: 1666 PC 14.34
- PXE LAN Option ROM Revision: PXE-2.1 build 082,V2.20,080826

**New Fixes/Features:**

- Fixed issue where locking "User Access Level" from Intel® Integrator Toolkit does not lock the question in Setup.
- Updated setup items related to fan current.
- Added Flash update security.
- Added SMM Mode Security.
- Added security updates for JPEG and BMP decoder.
- Updated SMM module version 4.6.3\_SMM\_38.
- Fixed failure to suspend to RAM/S3 on Fedora\* 10 and Ubuntu\* 9.04.
- Fixed LAN in S3 resume issue.
- Added a new setup item "System Fan start up PWM".
- Modified "Chassis Intrusion" item.
- Fixed issues related to Legacy Floppy and USB Flash Drive access from DOS.
- Changed output type of SYSFANOUT from Open-drain to Push-pull.
- Fixed issue where E7600 processor frequency displayed wrong in BIOS.
- Updated F7 BIOS Update Tool.
- Added a new BoardID and created a new thermal profile.
- Fixed issue with processor fan acoustics during early POST.
- Fixed issue where USB Keyboard cannot be used to enter Setup when USB ports are disabled.
- Fixed issue where missing processor SMBIOS info caused WHQL test failures.

**BIOS Version 0024****About This BIOS:**

- March 24, 2009
- TYG4110H.86A.0024.2009.0324.1324
- VBIOS Build Number: 1666 PC 14.34
- PXE Nahum info: REALTEK RTL8111D-GR Boot Agent PXE Base Code (PXE-2.1 build 082,V2.20,080826)

**New Fixes/Features:**

- Fixed an issue where the floppy drive would disappear in Microsoft Windows\* Vista\* after making changes to the BIOS boot menu.
- Fixed an issue where WHQL testing would not complete with certain video adapters.
- Fixed an issue custom BIOS settings could be lost when updating the BIOS using Intel Integrator Toolkit.

**BIOS Version 0023****About This BIOS:**

- March 09, 2009
- TYG4110H.86A.0023.2009.0309.1055
- VBIOS info: Build Number: 1666 PC 14.34

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

- PXE Nahum info: REALTEK RTL8111D-GR Boot Agent PXE Base Code (PXE-2.1 build 082,V2.20,080826)

**New Fixes/Features:**

- Fixed ACPI error in Windows Event Log.
- Fixed issue where ISO files are not seen when pressing F7 during POST to update the BIOS.
- Fixed issue where the BIOS boot order disappears after pressing F9 with ITKFE modified BIOS.
- Fixed issue with the Need For Speed Game and certain video adapters.

**Known Errata:**

**BIOS Version 0020**

**About This BIOS:**

- December 26, 2008
- TYG4110H.86A.0020.2008.1226.1405
- VBIOS info: Build Number: 1666 PC 14.34
- PXE Nahum info: REALTEK\* RTL8111D-GR Boot Agent PXE Base Code (PXE-2.1 build 082,V2.20,080826)

**New Fixes/Features:**

- Configured registers settings to meet Self-Test 5.19.13.
- Fixed system not reset as setup numeric field changed.
- Set audio front panel default to Enabled.
- Fixed the issue when enabling "UEFI boot", and then pressing F10, system will auto-reset.
- Fixed issue where operating system fails to load when using PCI recovery card.
- Fixed issue where chassis type can't be written by ODMDMI2.
- Fixed issue where some PS/2 keyboards can't wake up system from S3/S4/S5.
- Added patch to decrease POST time.
- Fixed the C-State reported issue.
- Fixed issue where system does not boot with certain graphics card.
- Implemented the chassis type pre-programmed.
- Fixed issue where system won't boot to HDD when Boot Type is set to Advanced.
- Fixed issue where system automatically enters the "BIOS Flash Update"(F7) menu.
- Fixed issue where BIOS setup cannot be entered by pressing "F2" key when using a PS/2 keyboard.
- Fixed issue where memory size evaluation is not correct.

**BIOS Version 0018**

**About This BIOS:**

- November 17, 2008
- TYG4110H.86A.0018.2008.1117.1920
- VBIOS info: Build Number: 1666 PC 14.34
- PXE Nahum info: REALTEK\* RTL8111D-GR Boot Agent PXE Base Code (PXE-2.1 build 082,V2.20,080826)

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**New Fixes/Features:**

- Turned off LAN in operating system shutdown path if Wake on LAN from S5 is disabled.
- Fixed auto load default issue after BIOS updating.
- Added support for USB emulation type: size option.
- Fixed the issue that when using the /MD command for Iflash, cannot replace an Intel® Integrator Toolkit custom JPG Splash screen with the Default BIOS Splash Screen.
- Fixed issue where keyboard function key does not work when only attaching a PS/2 keyboard.
- Fixed issue when entering Maintenance Mode, the system Passwords will be uninstalled even though CLEAR ALL PASSWORDS was not selected.
- Implemented the PS/2 port swap function.
- Fixed issue where system cannot shut down and sleep under UEFI Vista\*.
- Updated processor support.
- Changed setup default for "Wake on LAN from S5".
- Enabled the Lock thermal interrupt bit in the MSR to fix the error on processor setting.
- Updated for ASPM L0s disable/ un-support.
- Updated the front panel Power LED blink mechanism.
- Modified Chassis type default value in SMBIOS structure.
- Modified EM64T string.
- Fixed issue where the system will hang at check point 0x13 when resume from S3 in SOQM test.
- Updated new board ID definition.
- Fixed issue where pressing F9 key will make language change back to English.
- Updated the algorithm of Hardware Monitor MCH Voltage in setup.

<b>BIOS Version 0016</b>
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**About this BIOS:**

- October 26, 2008
- TYG4110H.86A.0016.2008.1026.2040
- VBIOS info: Build Number: 1666 PC 14.34
- PXE Nahum info: REALTEK\* RTL8111D-GR Boot Agent PXE Base Code (PXE-2.1 build 082,V2.20,080826)

**New Fixes/Features:**

- Initial production BIOS release

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