



BIOS Update Release Notes

PRODUCTS: DP45SG (Standard BIOS)

BIOS Version 0125 - SGP4510H.86A.0125.2010.0121.1927

About This Release:

- January 21, 2010
- SATA RAID Option ROM Revision: 8.6.0.1007
- LAN Option ROM: Intel UNDI,PXE-BA0020Q2.LOM

New Fixes/Features:

- Implemented Security Phase II
- Fixed issue with low memory display.
- Fixed issue with Intel® Integrator Toolkit (ITK) where locking "User Access Level" from does not lock the question in Setup.
- Fixed issue with ITK where "Performance" settings are exposed.
- Disabled iFlash2 No-reboot function.
- Fixed issue with inconsistent memory timing setting when changed to manual mode.
- Fixed issue with POST 51 error when using certain wireless keyboard.
- Fixed issue with ITK where after installing the INI file generated from ITK FE, warning messages are displayed for the settings 007b, 007c, and 007f when extracting tokens in PE.
- Fixed issue with ITK where Intel Precision Cooling is not displayed.
- Fixed issue when running Iflash2 /S after a previous flash, system does not display flash status of the modules or the status shown was incorrect.

BIOS Version 0121

About This Release:

- August 28, 2009
- SGP4510H.86A.0121.2009.0828.1117
- Memory Reference Code Revision: Based on 2.6
- SATA RAID Option ROM Revision: 8.6.0.1007
- LAN Option ROM: Intel UNDI,PXE-BA0020Q2.LOM

New Fixes/Features:

- Enabled headless operation without graphics card.
- Fixed issue where non-BIO files appear on list of F7 BIOS Update tool.
- Fixed issue where system reboots automatically after launching Intel® Desktop Control Center (IDCC) when Onboard 1394 is disabled.

BIOS Version 0118

About This Release:

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

- June 22, 2009
- SGP4510H.86A.0118.2009.0622.1056
- SATA RAID Option ROM Revision: 8.6.0.1007
- LAN Option ROM: Intel UNDI,PXE-BA0020Q2.LOM

New Fixes/Features:

- Implemented Intel security requirement.
- Fixed issue where family type fails on E6300 processor.
- Fixed issue where processor thermal margin shows N/A in BIOS Setup.
- Fixed issue where E7600 processor frequency displays wrong.

BIOS Version 0116

About This BIOS:

- May 5, 2009
- SGP4510H.86A.0116.2009.0505.1452
- GBE firmware bin version: 10R_567
- PXE Option Rom file: Intel UNDI,PXE-BA0020Q2.LOM
- ME Version: 1080 (Disable)
- RAID Option Rom version: 8.6.0.1007

New Fixes/Features:

- Set CPU margin to show as passive.
- Fixed issue where Processor Multiplier does not work.
- Fixed issue where CPU SMBIOS info is missing.
- Fixed issue with HDD AAM function.
- Fixed issue where CDROM disappears in F7 BIOS update.
- Set S.M.A.R.T to "Hide" by Integrator Toolkit.

BIOS Version 0112

About This BIOS:

- March 11.2009
- SGP4510H.86A.0112.2009.0311.1722
- GBE firmware bin version: 10R_567
- PXE Option Rom file: Intel UNDI,PXE-BA0020Q2.LOM
- RAID Option Rom version: 8.6.0.1007

New Fixes/Features:

- Fixed an issue where a USB keyboard could not be used to enter the BIOS Setup if all USB ports were disabled.
- Added support for updating the BIOS using the F7 key during boot.
- Fixed an issue where ISO images could not be used to update the BIOS using the F7 key.
- Fixed an issue where the system would erroneously generate an ACPI error in the Windows Event Log.

BIOS Version 0109

About This BIOS:

- January 21.2009
- SGP4510H.86A.0109.2009.0121.1750
- GBE firmware bin version: 10R_567
- PXE Option Rom file: Intel UNDI,PXE-BA0020Q2.LOM

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- ME Version: 1080 (Disable)
- RAID Option Rom version: 8.6.0.1007

New Fixes/Features:

- Fixed Consumer Infra-Red (CIR) detection issue on wake from S3
- Enable C4 support with PECI

BIOS Version 0108

About This BIOS:

- January 14, 2009
- SGP4510H.86A.0108.2009.0114.2036
- GBE firmware bin version: 10R_567
- PXE Option Rom file: Intel UNDI,PXE-BA0020Q2.LOM
- ME Version: 1080 (Disable)
- RAID Option Rom version: 8.6.0.1007

New Fixes/Features:

- Fixed issue where host clock will not store to default when loading default in SETUP and modifying PCIe frequency.
- Fixed issue where E7500 & E8400 processor multiplier is lowest value when enabling over clocking.
- Fixed issue where operating system fails to load when using a PCI recovery card.
- Fixed issue where some USB keys cause system to reset when pressing F10.
- Updated to use iflash2.exe as the BIOS update tool in this BIOS package.

BIOS Version 0106

About This BIOS:

- December 10, 2008
- SGP4510H.86A.0106.2008.1210.2137
- GBE firmware bin version: 10R_567
- PXE Option Rom file: Intel UNDI,PXE-BA0020Q2.LOM
- ME Version: 1080 (Disable)
- RAID Option Rom version: 8.6.0.1007

New Fixes/Features:

- Fixed issue with Intel® Integrator Toolkit (ITK) where tokens are set to an invalid value.
- Fixed issue where onboard 1394 does not show in Intel® Integrator Assistant (IIA) and is not found in F2 BIOS Setup.
- Fixed issue where Intel Precision Cooling is not displayed.
- Added support for OCZ memory boot.
- Fixed issue where bootable devices except Hard Disk Drive disappear in IIA boot order.
- Fixed issue where date is unreadable characters when CMOS battery low.
- Added support for PC3 1066 9-9-9 1.7v DRAM.
- Updated RAID ROM Ver8.6.0.1007.
- Fixed issue where system is unable to boot to HDD when Boot Type is set to Advanced.
- Fixed issue where all onboard devices are disabled after pressing F9.

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- Fixed issue where chassis type is not pre-programmed.
- Fixed issue where system won't boot with certain graphics card.
- Fixed issue where BIOS language changes to French when pressing F9.
- Fixed issue where system hangs at boot if system is configured for RAID with a SCSI adaptor installed.
- Fixed issue where debug mode can't boot.

BIOS Version 0102

About This BIOS:

- November 20, 2008
- SGP4510H.86A.0102.2008.1120.1053
- GBE firmware bin version: 10R_567
- PXE Option Rom file: Intel UNDI,PXE-BA0020Q2.LOM
- ME Version: 1080 (Disable)
- RAID Option Rom version: 8.0.0.1039

New Fixes/Features:

- Fixed boot failure when Boot Type is set to Advanced.
- Added ADT4790 (Heceta6 chip thermal solution)
- Fixed issue where MRC don't return correct memory timing default.
- Fixed issue where changes to processor multiplier erroneously triggered watchdog timer.
- Fix S3 power LED issue.
- Updated ASC7621 Module
- Fixed S3 hyper-sleep resume failure.
- Fixed issue where Intel® Desktop Control Center (IDCC) could not be launched after changing CPU Voltage.
- Fixed memory bank information in IDCC's System tab.
- Fixed issue in IDCC where CPU voltage sorting order changes when CPU voltage is changed from factory default.
- Fixed power LED blink issue after G3.
- Fixed issue where system is unable to boot to HDD when boot type is set to advanced.
- Corrected ECIR default setting.
- Updated IDCC module revision to 2
- Updated IDCC module to display correct CPU ratio default in ACPI table.
- Updated IDCC module to set FSB and memory voltage update dynamically to default.
- Updated IDCC module to adjust Memory reference frequency.
- Updated IDCC module to display correct CPU ratio and FSB.
- Updated IDCC module to show PCI Bus frequency.
- Fixed issue where power LED turns on when AC power is connected.
- Fixed issue where Intel® Integrator Toolkit (ITK) server does not correctly report BIOS flashing result when flashing process failed.
- Fixed issue where S5 LED turns off.
- Fixed issue system restart issue when exiting BIOS setup without saving.
- Updated IDCC module where some processors cannot load IDCC correctly.
- Updated IDCC module to correct SMBIOS display.
- Improved watchdog timer function to reset system when entering BIOS via WDT warning message without setup change.

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- Fixed BIOS setup Performance page (changed Processor Multiplier Override from Automatic to Manual, changed Host Clock Frequency Override from automatic to manual, processor speed can not match correct value.)
- Improved RTC function to prevent date/time misconduct issue.
- Changed Core2 Processor Temperature to read the temperature as "Processor Thermal Margin" - a positive value indicating PECI delta.

BIOS Version 0093

About This BIOS:

- October 1, 2008
- SGP4510H.86A.0093.2008.1001.1958
- GBE firmware bin version: 10R_567
- PXE Option Rom file: Intel UNDI,PXE-BA0020Q2.LOM
- ME Version: 1080 (Disable)
- RAID Option Rom version: 8.0.0.1039

New Fixes/Features:

- Fixed OEM Activation 2.0 failure.
- Fixed issue where User Access Level = View Only.
- Updated MRC 2.40
- Fixed issue where Watchdog Timer does not work during CPU initiation.
- Fixed issue where default factory setting and the configuration will remain after reconfiguring.
- Fixed issue where Intel® Integrator Toolkit (ITK) doesn't correctly report BIOS flashing result when flashing process fails.
- Fixed issue in ITK with lock/hide state for UQI 6A (Onboard Audio).
- Fixed issue where bootable devices except Hard Disk Drive disappear in Intel® Integrator Assistant (IIA) boot order.
- Fixed issue where BIOS update intermittently fails using IIA.
- Fixed issue where boot order list did not propagate in IIA when user enables bootable devices in F2 BIOS Advance Mode.
- Updated Intel® Desktop Control Center module.
- Fixed issue with supervisor password in Setup and OS.
- Fixed issue with resume on AC Loss (LAST STATE POWER OFF).
- Fixed issue with iFlash to previous BIOS, recovery.
- Updated time verify function.
- Fixed date/time issues.
- Updated UQI
- Updated consumer infrared (CIR) functionality.
- Updates to improve reliability of RTC code.
- Saved/Restored index registers.
- Fixed issue with RTC wake up.

BIOS Version 0083

About This BIOS:

- August 19, 2008
- SGP4510H.86A.0082.2008.0819.1026
- GBE firmware bin version: 10R_567
- PXE Option Rom file: Intel UNDI,PXE-BA0020Q2.LOM
- ME Version: 1080 (Disable)

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- RAID Option Rom version: 8.0.0.1039

New Fixes/Features:

- Fixed Load Default issue during NVCompact.
- Fixed NVRAM compact to recovery function base.
- Loaded default during power on/off test.
- Kept date for RTC power failure.
- Fixed issue with no display on first PCI-E slot when two VGA cards are installed.
- Fixed system hang with POST code E5.
- Fixed hang with POST code EE when certain graphics card is installed.
- NV vga card fail for S3
- Updated processor support.

BIOS Version 0073

About This BIOS:

- August 5, 2008
- SGP4510H.86A.0073.2008.0805.2000
- GBE firmware bin version: 10R_567
- PXE Option Rom file: Intel UNDI,PXE-BA0020Q2.LOM
- ME Version: 1080 (Disable)
- RAID Option Rom version: 8.0.0.1039

New Fixes/Features:

- Initial production BIOS release

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