



BIOS Update Release Notes

PRODUCTS: D5400XS (Standard BIOS)

BIOS Version 1353

About This Release:

- July 24, 2009
- XS54010J.86A.1353.2009.0724.1139
- SATA RAID Option ROM: Intel(R) RAID for SATA v5.6.7.1001
- SATA RAID Option ROM: Marvell 88SE61xx Version 1.2.0.28
- SATA non-RAID Option ROM: Marvell 88SE61xx Version 1.1.0.L70
- AHCI Code: Based on ICBO 05-09-2008
- LAN Option ROM: Intel(R) Boot Agent PXE GE v1.3.24
- LAN Option ROM: Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Updated fault tolerant firmware ID support.
- Fixed possible BIOS recovery failures.
- Fixed potential intermittent S3 failure.
- Fixed potential overlapped memory ranges in E820 data.
- Applied additional security fixes.
- Updated Express BIOS Update support.
- Corrected "Intel® 64 Architecture Capable" string.
- Fixed issue with certain storage adapter cards not being detected in POST.
- Fixed issue where you cannot PCIe SATA card Setup for certain storage adapter cards.
- Fixed a problem where USB devices were not detected during POST.
- Changed SMBIOS revision to 2.5.
- Updated SMBIOS Processor Family.
- Fixed issue where Express BIOS Update would fail after S3.
- Enabled Quad-Rank DIMM support.
- Fixed memory size reporting issues in BIOS and operating system.
- Fixed possible PCIe programming issues.
- Moved Watchdog Timer setup option to the Performance page.
- Updated support for high power PCIe adapters.
- Fixed failure in Windows Logo Kit (WLK) Simple Computer Display Object Test.
- Fixed issue with slow S3 resume time.
- Fixed recovery to prior BIOS versions.
- Fixed hang when the system is reset just after flash updating to a new BIOS.
- Fixed issue where the system would not boot with the certain storage adapter cards installed.

BIOS Version 1175

About This Release:

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

- November 21, 2008
- XS54010J.86A.1175.2008.1121.1010
- SATA RAID info:
Intel(R) RAID for SATA - v5.6.7.1001
- SATA AHCI info:
Version ICBO src 05-09-2008
- eSATA info:
Marvell* 88SE61xx Adapter - BIOS Version 1.1.0.L70
Marvell 88SE61xx RAID Adapter - BIOS Version 1.2.0.28
- PXE info:
Intel(R) Boot Agent GE v1.3.24
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Fixed a potential system hang.
- Added workaround where system fails to wake from S5 via RTC alarm.
- Fixed unresponsive USB keyboard in BIOS SETUP seen on systems with several option ROMs loaded.
- Fixed issue where the system would not boot with the certain storage controller card installed.
- Fixed issue where system thermal trip status is not captured after enabling HW watchdog timer feature.
- Updated to Intel(R) Boot Agent GE v1.3.24.
- Fixed incorrect SMBIOS slot device presence detection.
- Fixed issue where PCIe x16 link width not detected correctly.
- Fixed issue where system kept resetting if HW watchdog support is disabled in BIOS setup.
- Fixed ACPI IRQ error in Windows XP* System Log for device 15.
- Updated ESB2 RAID Option ROM to version 5.6.7.1001.
- Moved question to disable C1E to the Power page in setup.
- Fixed issue where hardware virtualization is not available after S3 resume.
- Fixed possible hang at POST code 0xEB when Marvell* option ROM is enabled.

BIOS Version 1149

About This Release:

- August 26, 2008
- XS54010J.86A.1149.2008.0825.2339
- SATA RAID info:
Intel(R) RAID for SATA - v5.6.4.1002
- SATA AHCI info:
Version ICBO src 05-09-2008
- eSATA info:
Marvell* 88SE61xx Adapter - BIOS Version 1.1.0.L62
Marvell 88SE61xx RAID Adapter - BIOS Version 1.2.0.22
- PXE info:
Intel(R) Boot Agent GE v1.2.70
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Fixed S3 failed to resume when hardware watchdog timer feature enabled.
- Added hardware watchdog timer support.
- Changed display font from "(R)" to "®".

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- Fixed issue where keys pressed in POST are visible after boot in the BIOS Data Area (BDA) keyboard buffer.
- Optimized performance of ATAPI recovery routines.
- Fixed processor 0 fan stuck at full speed.
- Fixed intermittent failure to perform optical drive recovery.
- Changed BIOS setup item wording "EIST" to "Enhanced Intel SpeedStep® Technology".
- Changed BIOS setup item wording "VT Technology" to "Intel® VT".
- Changed BIOS setup item wording "LT Technology" to "Intel® Trusted Execution Technology".
- Changed the SMBIOS memory form factor to FBDIMM.

BIOS Version 1140

About This Release:

- May 21, 2008
- XS54010J.86A.1140.2008.0520.2239
- SATA RAID info:
Intel(R) RAID for SATA - v5.6.4.1002
- SATA AHCI info:
Version ICBO src 05-09-2008
- eSATA info:
Marvell* 88SE61xx Adapter - BIOS Version 1.1.0.L62
Marvell 88SE61xx RAID Adapter - BIOS Version 1.2.0.22
- PXE info:
Intel(R) Boot Agent GE v1.2.70
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Added support for EIST.
- Added support for VT Technology.
- Added support for Intel® VT for Directed I/O (VT-d).
- Added Half Ratio support for Half Ratio capable processors.
- Fixed issue where certain solid state drives were not working with the ICH SATA AHCI Option ROM.
- Changed the strings for HD Audio Link and BP/FP Audio out setup.
- Enabled FSB overclocking support.
- Added workaround for MCH and CPU voltage override failing after intense SMBUS usage.
- Updated ESB2 AHCI Option ROM with latest changes.
- Updated support for dual processor fan control.
- Fixed BIOS Setup interface to allow pop-up menu to scroll through options.
- Added ability to override memory ratio on 5400 chipset.
- Fixed potential issue where fan speed could be stuck at 100%.
- Fixed potential hang at POST code 0x12.
- Fixed S3 resume failures with RAID/AHCI enabled.
- Fixed issue where disabling fan control did not work for CPU1.
- Improved S3 resume time.

BIOS Version 0926

About This Release:

- February 18, 2008
- XS54010J.86A.0926.2008.0218.1455

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

- SATA RAID info:
Intel(R) RAID for SATA - v5.6.4.1002
- SATA AHCI info:
Version UPSD src 06-16-2007 for ESB2
- eSATA info:
Marvell* 88SE61xx Adapter - BIOS Version 1.1.0.L62
Marvell* 88SE61xx RAID Adapter - BIOS Version 1.2.0.22
- PXE info:
Intel(R) Boot Agent GE v1.2.70
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Added support for dual processor fan control.
- Updated Heceta6P support for PECCI processor based on the number of domains.
- Fixed fan surge early in POST.
- Fixed system reset when overriding memory timings in some cases.
- Fixed system hang when enabling "Power Saver" mode in Windows Vista*.
- Fixed processor 0 fan stuck at full speed.

BIOS Version 0821

About This Release:

- January 22, 2008
- XS54010J.86A.0821.2008.0122.1754
- SATA RAID info:
Intel(R) RAID for SATA - v5.6.4.1002
- SATA AHCI info:
Version UPSD src 06-16-2007 for ESB2
- eSATA info:
Marvell* 88SE61xx Adapter - BIOS Version 1.1.0.L62
Marvell* 88SE61xx RAID Adapter - BIOS Version 1.2.0.22
- PXE info:
Intel(R) Boot Agent GE v1.2.70
Intel(R) Boot Agent PXE Base Code (PXE-2.1 build 086)

New Fixes/Features:

- Initial production BIOS release

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