



## BIOS Update Release Notes

### PRODUCTS: DX79SI, DX79SR, DX79TO (Standard BIOS)

**BIOS Version 0553 - SIX7910J.86A.0553.2012.1027.1042**

#### About This Release:

- Date:  
October 27, 2012
- ME Firmware:  
7.1.60.1193
- SATA RAID Option ROM:  
Intel(R) RAID for SATA - v3.5.0.1005
- PXE Boot Agent:  
Intel(R) Boot Agent GE v1.3.72  
IBA GE Slot 0000 v1372 PXE 2.1 Build 089 (WfM 2.0)

#### New Fixes/Features:

- Updated Intel® ME 7 firmware to version 7.1.60.1193.
- Updated SATA RAID Option ROM to version 3.5.0.1005.
- Fixed issue where certain 4-port LAN card does not work.
- Fixed issue with thermal error beep.

**BIOS Version 0537 - SIX7910J.86A.0537.2012.0723.1217**

#### About This Release:

- Date:  
July 23, 2012
- ME Firmware:  
7.1.50.1172
- SATA RAID Option ROM:  
Intel(R) RAID for SATA - v3.2.0.1022
- PXE Boot Agent:  
Intel(R) Boot Agent GE v1.3.72  
IBA GE Slot 0000 v1372 PXE 2.1 Build 089 (WfM 2.0)

#### New Fixes/Features:

- Updated SATA RAID Option ROM to version 3.2.0.1022.
- Enabled recovery update capability between EDK1 and EDK2.

**BIOS Version 0525 - SIX7910J.86A.0525.2012.0709.1221**

#### About This Release:

- Date:  
July 9, 2012
- ME Firmware:  
7.1.50.1172
- SATA RAID Option ROM:  
Intel(R) RAID for SATA - v3.1.0.2101
- PXE Boot Agent:  
Intel(R) Boot Agent GE v1.3.72

**New Fixes/Features:**

- Removed warning when processor fan is not connected.
- Fixed issue where error is reported in the Event Log for the XHCI controller.
- Fixed issue where USB 3.0 fails when USB Optimization is enabled.
- Updated Intel® ME firmware to version 7.1.50.1172.

**BIOS Version 0515 - SIX7910J.86A.0515.2012.0523.1049**

**About This Release:**

- Date:  
May 23, 2012
- ME Firmware:  
7.1.21.1134
- SATA RAID Option ROM:  
Intel(R) RAID for SATA - v3.1.0.2101
- PXE Boot Agent:  
Intel(R) Boot Agent GE v1.3.72  
IBA GE Slot 0000 v1372 PXE 2.1 Build 089 (WfM 2.0)

**New Fixes/Features:**

- Enabled flash update capability from current Baseline to new EDKII Baseline BIOS.
- Fixed issue with Device Manager yellow bang on any off-board XHCI controller in the system.
- Enabled PCH SATA hot-plug support.
- Updated processor support.

**BIOS Version 0494 - SIX7910J.86A.0494.2012.0424.1039**

**About This Release:**

- Date:  
April 24, 2012
- ME Firmware:  
7.1.21.1134
- SATA RAID Option ROM:  
Intel(R) RAID for SATA - v3.1.0.2101
- PXE Boot Agent:  
Intel(R) Boot Agent GE v1.3.72  
IBA GE Slot 0000 v1372 PXE 2.1 Build 089 (WfM 2.0)

**New Fixes/Features:**

- Reduced S3 resume time.
- Fixed issue with power button recovery where video does not display during Main firmware update.
- Fixed false event from Flash Update Status Indicators.
- Added memory beep support for unsupported DIMMs.
- Added support for mismatched XMP DIMMs.
- Added ECC support.
- Updated SATA RAID Option ROM to version 3.1.0.2101.
- Improved compatibility with add-in RAID cards.

**About This Release:**

- Date:  
March 27, 2012
- ME Firmware:  
7.1.21.1134
- SATA RAID Option ROM:  
Intel(R) RAID for SATA - v3.0.1.1370
- PXE Boot Agent:  
Intel(R) Boot Agent GE v1.3.72  
IBA GE Slot 0000 v1372 PXE 2.1 Build 089 (WfM 2.0)

**New Fixes/Features:**

- Updated processor support.
- Fixed issue where system hangs at POST code EB with SATA in IDE mode and certain 4-port NIC in the system.
- Updated Setup behavior between Auto Setup Entry and Fast Boot USB Optimization.
- Updated to show clear user password prompt when user password is installed.
- Fixed issue with yellow bang on second identical graphics card.
- Fixed issue where operating system cannot be installed in RAID mode when UEFI is enabled.

**About This Release:**

- Date:  
March 15, 2012
- ME Firmware:  
7.1.21.1134
- SATA RAID Option ROM:  
Intel(R) RAID for SATA - v3.0.1.1370
- PXE Boot Agent:  
Intel(R) Boot Agent GE v1.3.72  
IBA GE Slot 0000 v1372 PXE 2.1 Build 089 (WfM 2.0)

**New Fixes/Features:**

- Enabled flash update status indicator.
- Added Power Button menu.
- Added workaround for DIMMs with invalid XMP profile.
- Enabled PEI Authentication.
- Fixed issue where PCI Subsystem Vendor ID and Subsystem ID were not programmed on value-add devices.
- Added XMP support for 3T command rate.
- Fixed issue where system hangs during cycling.
- Removed keyboard not found event.
- Fixed issue where BIOS reported invalid tRFC for XMP 1.3 DIMMs.
- Increased tRFC to 400.
- Added beep for all memory error.
- Fixed issue where two identical video cards are not listed in BIOS Setup.
- Updated processor support.
- Added JKT RC package R1.0.013 changes.

- Updated code to change Fan Speed Control setup option to "Manual Duty Cycle (%)" when Control Mode is set to Manual.

**BIOS Version 0430 - SIX7910J.86A.0430.2012.0213.1635**

**About This Release:**

- Date:  
February 13, 2012
- ME Firmware:  
7.1.21.1134
- SATA RAID Option ROM:  
Intel(R) RAID for SATA - v3.0.1.1370
- PXE Boot Agent:  
Intel(R) Boot Agent GE v1.3.72  
IBA GE Slot 0000 v1372 PXE 2.1 Build 089 (WfM 2.0)

**New Fixes/Features:**

- Fixed issue where error shows in Device Manager\* for USB 3.0 front panel controller.
- Added XMP 1.3 support.

**BIOS Version 0424 - SIX7910J.86A.0424.2012.0127.1620**

**About This Release:**

- Date:  
January 27, 2012
- ME Firmware:  
7.1.21.1134
- SATA RAID Option ROM:  
Intel(R) RAID for SATA - v3.0.1.1370
- PXE Boot Agent:  
Intel(R) Boot Agent GE v1.3.72  
IBA GE Slot 0000 v1372 PXE 2.1 Build 089 (WfM 2.0)

**New Fixes/Features:**

- Fixed issue with BIOS Recovery support.
- Added keyboard controller reset workaround.
- Fixed issue where internal PLL override option does not work correctly.
- Fixed issue where non-XE CPU will not run in Turbo speed.
- Updated processor support.
- Fixed issue with manual mode fan control.
- Updated FSC Stack.
- Updated GUID defined section Security check.
- Disabled ACPI OS native PCI Express support when certain graphics card is installed in the system.
- Improved memory stability at higher memory speed.
- Updated Turbo Ratio maximum limit in BIOS Setup.
- Updated Turbo related options range in BIOS Setup.
- Improved BIOS watchdog timer support for Intel® Extreme Tuning Utility.
- Updated PEG slot to support PCIe\* Gen3.
- Updated Setup options for Overclocking Assistance and Turbo Ratio.

- Added support for Primary/Secondary Temperature Input parameters to controller.
- Fixed issue where some USB optical drives are not detected.
- Fixed random hang at boot on systems with TPM present.
- Fixed POST hang at boot with cursor at top-left of screen with certain option ROM configurations.
- Updated SATA RAID option ROM to version 1370.

<b>BIOS Update 0380 - SIX7910J.86A.0380.2011.1128.1456</b>
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**About This Release:**

- Date:  
November 28, 2011
- ME Firmware:  
7.1.21.1134
- SATA RAID Option ROM:  
Intel(R) RAID for SATA - v3.0.0.1184
- PXE Boot Agent:  
Intel(R) Boot Agent GE v1.3.72  
IBA GE Slot 0000 v1372 PXE 2.1 Build 089 (WfM 2.0)

**New Fixes/Features:**

- Added boot time enhancement.
- Fixed issue where S3 resume failed when Runtime Turbo Ratio is enabled.
- Updated SMBIOS Type 0 for UEFI Spec support flag.
- Improved USB keyboard handling in MS-DOS.
- Added Power Button Recovery support.
- Set CPU Voltage to 1.25V for Host Clock Multiplier 1.25x and 1.66x.
- Improved BIOS Extreme Tuning Utility support.
- Fixed issue where disabling the S4/S5 Wake-on-LAN causes the system not able to wake-on-LAN in S3.
- Fixed Extreme Tuning Utility to report PCH Temperature.
- Updated FSC related options for Intel® Integrator Toolkit.
- Fixed issue where XMP-2133 timing is misread.
- Updated processor support.
- Fixed the system text display issue after S4 cycle.

<b>BIOS Version 0281 - SIX7910J.86A.0281.2011.1019.1519</b>
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**About This Release:**

- Date:  
October 19, 2011
- ME Firmware:  
7.1.21.1134
- SATA RAID Option ROM:  
Intel(R) RAID for SATA - v3.0.0.1184
- PXE Boot Agent:  
Intel(R) Boot Agent GE v1.3.72  
IBA GE Slot 0000 v1372 PXE 2.1 Build 089 (WfM 2.0)

**New Fixes/Features:**

- Initial production BIOS release

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