PRODUCTS: DX79SI, DX79SR, DX79TO (Standard BIOS)

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.

BIOS Version 0460 - SIX7910J.86A.0460.2012.0327.1627

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.

BIOS Version 0453 - SIX7910J.86A.0453.2012.0315.1212

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.

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BIOS Version 0424 - SIX7910J.86A.0424.2012.0127.1620
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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.

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BIOS Update 0380 - SIX7910J.86A.0380.2011.1128.1456
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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.

BIOS Version 0281 - SIX7910J.86A.0281.2011.1019.1519

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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