BIOS Release Notes Form

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Product Name	X11SSM-F
Release Version	2.9
Release Date	3/16/2023
Build Date	3/16/2023
Previous Version	2.8a
Update Category	Recommended
Dependencies	None
Important Notes	None
Enhancements	 Changed BIOS revision to 2.9. Updated Kabylake-S B0 stepping (906E9) microcode to 0xF2 for IPU 2023.2 for INTEL-SA-00807 Security Advisory to address CVE-2022-38087 (4.1, Medium) and CVE-2022-33894 (7.5, High) security issues.
New features	N/A
Fixes	None

Release Notes from Previous Release(s)

2.8a (1/5/2023)

- 1. Changed BIOS revision to 2.8a.
- 2. Synced build version to "SA PCIe Code Version" and "Intel PCH RC Version."
- 3. Updated SPS 4.01.04.835 for IPU 2023.1.
- 4. Updated DBX file to fix Secure Boot Bypass issue for CVE-2020-10713(8.2, High), CVE-2022-34301(8.2, High), CVE-2022-34302(8.2, High), and CVE-2022-34303(8.2, High) security issues.
- 5. Updated Skylake-S RO/S0 stepping CPU beta microcode M36506E3_000000F0 for IPU 2022.1 update and updated Kabylake-S B0 stepping CPU beta microcode M2A906E9_000000F0 for IPU 2022.1 update for INTEL-SA-00601 Security Advisory to address CVE-2021-0154(8.2, High), CVE-2021-0153(8.2, High), CVE-2021-33123(8.2, High), CVE-2021-0190(8.2, High), CVE-2021-33122(7.9, High), CVE-2021-33060(7.8, High), CVE-2021-0189(7.5, High), CVE-2021-33124(7.5, High), CVE-2021-33103(7.5, High), CVE-2021-0159(7.4, High), CVE-2021-0188(5.3, Medium) and CVE-2021-0155(4.4, Medium) security issues; for INTEL-SA-00616 Security Advisory to address CVE-2021-21131(3.3, Low) and CVE-2021-21136(2.7, Low) security issues; and for INTEL-SA-00617 Security Advisory to address CVE-2022-21151(5.3, Medium) security issue.
- Updated SINIT ACM to v1.10.0 for INTEL-SA-00601 Security Advisory to address CVE-2021-0154(8.2, High), CVE-2021-0153(8.2, High), CVE-2021-33123(8.2, High), CVE-2021-0190(8.2, High), CVE-2021-33122(7.9, High), CVE-2021-33060(7.8, High), CVE-2021-0189(7.5, High), CVE-2021-33124(7.5, High), CVE-2021-33103(7.5, High), CVE-2021-0159(7.4, High), CVE-2021-0188(5.3, Medium) and CVE-2021-0155(4.4, Medium) security issues; for INTEL-SA-00616 Security Advisory to address CVE-2021-21131(3.3, Low) and CVE-2021-21136(2.7, Low) security issues; and for INTEL-SA-00617 Security Advisory to address CVE-2022-21151(5.3, Medium) security issue.
- 7. Corrected DevFuncNumber for SMBIOS type 9.

2.7 (12/6/2021)

- 1. Changed BIOS revision to 2.7.
- 2. Updated SPS 4.01.04.400 PC for 2021.2 IPU.
- 3. Updated Skylake-S RO/SO stepping CPU beta microcode M36506E3_000000EC. Updated Kabylake-S BO stepping CPU beta microcode M2A906E9_000000EC. For INTEL-SA-00532 Security Advisory to address CVE-2021-0127(5.6, Medium) security issue.
- Updated MRC Version 4.1.1.6. For INTEL-SA-00562 Security Advisory to address CVE-2021-0157(8.2, High) and CVE-2021-0158(8.2, High) security issues. For INTEL-SA-00527 Security Advisory to address CVE-2021-0103(8.2, High), CVE-2021-0114(7.9, High), CVE-2021-0115(7.9, High), CVE-2021-0116(7.9, High), CVE-2021-0117(7.9, High), CVE-2021-0118(7.9, High), CVE-2021-0099(7.8, High), CVE-2021-0156(7.5, High), CVE-2021-0111(7.2, High), CVE-2021-0107(7.2, High), CVE-2021-0125(6.7, Medium), CVE-2021-0124(6.3, Medium), CVE-2021-0119(5.8, Medium), CVE-2021-0092(4.7, Medium), CVE-2021-0091(3.2, Low) and CVE-2021-0093(2.4, Low) security issues.
- Updated SINIT ACM to v1.9.1. For INTEL-SA-00562 Security Advisory to address CVE-2021-0157(8.2, High) and CVE-2021-0158(8.2, High) security issues. For INTEL-SA-00527 Security Advisory to address CVE-2021-0103(8.2, High), CVE-2021-0114(7.9, High), CVE-2021-0115(7.9, High), CVE-2021-0116(7.9, High), CVE-2021-0117(7.9, High), CVE-2021-0118(7.9, High), CVE-2021-0099(7.8, High), CVE-2021-0156(7.5, High), CVE-2021-0111(7.2, High), CVE-2021-0107(7.2, High), CVE-2021-0125(6.7, Medium), CVE-2021-0124(6.3, Medium), CVE-2021-0119(5.8, Medium), CVE-2021-0092(4.7, Medium), CVE-2021-0091(3.2, Low) and CVE-2021-0093(2.4, Low) security issues.

2.6 (06/12/2021)

- 1. Changed BIOS revision to 2.6.
- 2. Updated Skylake-S RO/SO stepping CPU beta microcode M36506E3_000000EA and Kabylake-S BO stepping CPU beta microcode M2A906E9_000000EA for INTEL-SA-00464 Security Advisory to address CVE-2020-24511 (5.6, Medium) and CVE-2020-24512 (2.8, Low) security issues.
- 3. Updated SPS 4.01.04.306 PC for 2021.1 IPU.

2.5 (11/26/2020)

- 1. Changed BIOS revision to 2.5.
- Updated SPS 4.01.04.204 for IPU 2020.2 for INTEL-SA-00391 Security Advisory to address CVE-2020-8752 (9.4, Critical), CVE-2020-8753 (8.2, High), CVE-2020-12297 (8.2, High), CVE-2020-12304 (8.2, High), CVE-2020-8745 (7.3, High), CVE-2020-8744 (7.2, High), CVE-2020-8705 (7.1, High), CVE-2020-8750 (7.0, High), CVE-2020-12303 (7.0, High), CVE-2020-12354 (6.7, Medium), CVE-2020-8757 (6.3, Medium), CVE-2020-8756 (6.3, Medium), CVE-2020-8756 (6.0, Medium), CVE-2020-12355 (5.3, Medium), CVE-2020-8751 (5.3, Medium), CVE-2020-8754 (5.3, Medium), CVE-2020-8761 (4.9, Medium), CVE-2020-8747 (4.8, Medium), CVE-2020-8749 (4.2, Medium), CVE-2020-12356 (4.4, Medium), CVE-2020-8746 (4.3, Medium), and CVE-2020-8749 (4.2, Medium) security issues.
- 3. Updated MRC Version 4.1.1.5 for IPU 2020.2.
- 4. Updated Skylake-S R0/S0 stepping CPU microcode M36506E3_000000E2 and Kabylake-S B0 stepping CPU microcode M2A906E9_000000DE for IPU 2020.2 for INTEL-SA-00389 Security Advisory to address CVE-2020-8694 (5.6, Medium) and CVE-2020-8695 (5.3, Medium) security issues.

2.4 (6/2/2020)

- 1. Changed BIOS revision to 2.4.
- Updated Skylake-S R0/S0 stepping CPU beta microcode M36506E3_00000DC and Kabylake-S B0 stepping CPU beta microcode M2A906E9_00000D6 for IPU2020.1 and INTEL-SA-00295 Security Advisory to address CVE-2020-0542 (7.8, High), CVE-2020-0532 (7.1, High), CVE-2020-0538 (7.5, High), CVE-2020-0534 (7.5, High), CVE-2020-0541 (6.7, Medium), CVE-2020-0533 (7.5, High), CVE-2020-0537 (4.9, Medium), CVE-2020-0531 (6.5, Medium), CVE-2020-0535 (5.3, Medium), CVE-2020-0536 (5.5, Medium), CVE-2020-0545 (4.4, Medium), CVE-2020-0540 (5.3, Medium), CVE-2020-0566 (7.3, High), CVE-2020-0539 (3.3, Low), CVE-2020-0586 (7.3, High), CVE-2020-0594 (9.8, Critical), CVE-2020-0595 (9.8, Critical), CVE-2020-0596 (7.5, High), CVE-2020-0597 (6.5, Medium) security issues.
- 3. Updated MRC Version 4.1.1.4.
- 4. Updated SPS 4.01.04.109 PLR version for IPU 2020.1.
- 5. Fixed problem of system hanging at 0x92 when installing Avago 9460-16i with EFI mode.

2.3 (11/26/2019)

- 1. Changed BIOS revision to 2.3.
- Updated SPS 4.01.04.088 PLR version for INTEL-SA-00241 Security Advisory to address CVE-2019-11090 (6.8, Medium), CVE-2019-11088 (7.5, High), CVE-2019-0165 (4.4, Medium), CVE-2019-0166 (5.9, Medium), CVE-2019-0168 (4.6, Medium), CVE-2019-0169 (9.6, Critical), CVE-2019-11086 (3.5, Low), CVE-2019-11087 (6.4, Medium), CVE-2019-11101 (4.4, Medium), CVE-2019-11100 (6.1, Medium), CVE-2019-11102 (4.1, Medium), CVE-2019-11103 (7.3, High), CVE-2019-11104 (7.3,

High), CVE-2019-11105 (7.9, High), CVE-2019-11106 (4.4, Medium), CVE-2019-11107 (5.3, Medium), CVE-2019-11108 (2.3, Low), CVE-2019-11110 (4.1, Medium), CVE-2019-11097 (7.3, High), CVE-2019-0131 (7.1, High), CVE-2019-11109 (4.4, Medium), CVE-2019-11131 (7.5, High), CVE-2019-11132 (8.4, High), and CVE-2019-11147 (8.2, High) security issues.

- 3. Updated SI 4.1.1.3 for INTEL-SA-00260 Security Advisory to address CVE-2019-0154 (6.5, Medium) security issue.
- Updated Skylake-S R0/S0 stepping CPU microcode M36506E3_000000D6 and Kabylake-S B0 stepping CPU microcode M2A906E9_00000CA for INTEL-SA-00219 Security Advisory to address CVE-2019-0117 (6.0, Medium) security issue, INTEL-SA-00289 Security Advisory to address CVE-2019-11157 (7.9, High) security issue, and INTEL-SA-00242 Security Advisory to address CVE-2019-11112 (8.8, High), CVE-2019-0155 (8.8, High), CVE-2019-11111 (7.3, High), CVE-2019-14574 (6.5, Medium), CVE-2019-14590 (6.5, Medium), CVE-2019-14591 (6.5, Medium), CVE-2019-11089 (5.9, Medium), and CVE-2019-11113 (4.0, Medium) security issues.
- 5. Updated Kaby Lake BIOS ACM 1.6.0 and SINIT ACM 1.7.4 for INTEL-SA-00220 Security Advisory to address CVE-2019-0123 (8.2, High) and CVE-2019-0124 (8.2, High) security issues and INTEL-SA-00240 Security Advisory to address CVE-2019-0151 (7.5, High) and CVE-2019-0152 (8.2, High) security issues.
- 6. Updated Secure Boot Key.
- 7. Implemented security update for INTEL-SA-00254 Security Advisory to address CVE-2019-0185 (6.0, Medium) security issue.

2.2a (5/24/2019)

- 1. Updated Intel CPU microcode from DT_P_183 for INTEL-SA00233 Security Advisory to address CVE-2018-12126, CVE-2018-12127, CVE-2018-12130, and CVE-2019-11091 security issues.
- 2. Updated EIP419363 to ensure DCI Policy is "Disabled" for INTEL-SA-00127, EIP412144 for [SA50044] USRT Mantis vulnerabilities, EIP387724 for Ofbd Meud Security vulnerabilities, and EIP422042 for CPU microcode downgrade attack vulnerability.
- 3. Updated Greenlow Refresh Initialization Code PV PLR5 Hotfix1 version 4.1.1.1 for INTEL-SA-00223 Security Advisory to address CVE-2019-0119, CVE-2019-0120, and CVE-2019-0126 security issues.
- 4. Contained SPS 4.01.04.054 PLR version for security vulnerability INTEL-SA-00213 to address CVE-2019-0089, CVE-2019-0090, CVE-2019-0086, CVE-2019-0091, CVE-2019-0092, CVE-2019-0093, CVE-2019-0094, CVE-2019-0096, CVE-2019-0097, CVE-2019-0098, and CVE-2019-0099 security issues.
- 5. Changed BIOS revision to 2.2a.
- 6. Updated Kaby Lake BIOS ACM 1.5.0 and SINIT ACM 1.6.0.
- 7. Updated EIP393007 & EIP411789 for TPM vulnerability when resuming S3.
- 8. Updated SATA RAID OPROM/EFI driver to RSTe PreOS v4.7.0.1017.
- 9. Updated VBIOS and VGA EFI Driver to 1.09 to fix ASpeed CVE-2019-6260 security issue.
- 10. Updated valid range of IPMI setup item VLAN ID to 1-4094.
- 11. Added support for RFC4122 UUID format feature to set RFC4122 encoding from build time produced by IPMICFG 1.29 tool or newer.
- 12. Fixed problem of BIOS always retrying boot when Re-Try Boot is Disabled.
- 13. Fixed inability to disable SMBIOS preservation for recovery.
- 14. Fixed inability to log CECC events in IPMI event log when METW = 0.

2.2 (5/23/2018)

- 1. Changed BIOS revision to 2.2.
- 2. Updated CPU microcode to address CVE-2018-3639 and CVE-2018-3640.

- 3. Updated Kaby Lake BIOS ACM 1.4.0 and SINIT ACM 1.3.0.
- 4. Enhanced ability to enter setup menu without password when system only has Administrator password.
- 5. Fixed problem of Afu /O command clearing SMC SMBIOS region (\$SMC).
- 6. Implemented workaround for problem of IP displaying 0.0.0.0 information the first time AC powers on BMC.
- 7. Fixed problem of the system hanging when trying to create virtual driver on LSI3108 storage card under BIOS setup.
- 8. Fixed missing reminding string "iKVM doesn't support add-on VGA device..." when VGA is plugged in & "Primary Display"=="PEG".

2.1a (03/07/2018)

- 1. Updated CPU microcode to address 'Spectre' variant 2 (CVE 2017-5715) security issue.
- 2. Changed BIOS revision to 2.1a.
- 3. Added Ramaxel JEDEC Manufacturer ID to support Ramaxel memory.
- 4. Added AOC-SLG3-2M2 1.01 into NVMe table for auto bifurcation.
- 5. Added support to speed the memory up to 2667Mhz.
- 6. Added support for UEFI mode PXE boot via F12 hot key Net boot.
- 7. Added support for SUM to display SGX-related items.
- 8. Fixed issue with IPMI force boot.
- 9. Fixed inability to load Broadcom SAS3008 configuration utility.
- 10. Fixed problem of system not showing correct manufacturer name or product name when IPMI without FRU1 is programmed.
- 11. Fixed failure of ATT BIOS ECO test case 237.
- 12. Fixed problem of SGX resetting to default value if using SUM to change SGX items after BIOS update.

2.1 (12/11/2017)

- 1. Changed BIOS revision to 2.1 for INTEL-TA-201710-003.
- 2. Updated SATA RAID OPROM/EFI driver to RSTe PreOS v4.7.0.1014.
- 3. Updated DT_P_140 for Kaby Lake-S B0 stepping MCU M2A906E9_0000007C and Skylake-S R0/S0 stepping MCU M36506E3_000000C2.
- 4. Fixed problem of ACPI Exception: AE_NOT_FOUND occurring.

2.0c (10/6/2017)

- 1. Changed BIOS revision to 2.0c.
- 2. Updated Greenlow Refresh Initialization Code PV PLR3 Version 4.1.0.8.
- 3. Updated DT_P_129 for Kaby Lake-S B0 stepping microcode M2A906E9_00000070.
- 4. Added a workaround to clear onboard LAN and slot device's UR and CE status.
- 5. Updated Skylake-S RO/SO stepping microcode M36506E3_000000BE.
- 6. Added "SMBIOS Preservation" Enabled/Disabled item for flash recovery.
- 7. Added AOC-SLG3-2M2 into NVMe table for auto bifurcation.
- 8. Added support for NVMe Firmware Source BIOS setup item.
- 9. Updated SPS 4.01.04.054 PLR version for security vulnerabilities.
- 10. Corrected the slot number for PEG/PCH slot.
- 11. Fixed inability of Windows PXE server to install OS successfully after IPMI forces PXE to boot.

12. Fixed problem of SPS NM command "Set Max allowed CPU P-state/T-state" working abnormally under OS.

2.0b (7/28/2017)

- 1. Changed BIOS revision to 2.0b.
- 2. Updated Intel Kaby Lake RC/SI package 4.1.0.6 PLR2.
- 3. Updated DT_P_123 for Kaby Lake-S B0 stepping microcode M2A906E9_0000005E and Skylake-S R0/S0 stepping MCU M36506E3_000000BA.
- 4. Set enabled SATA Hot Plug as default.
- 5. Added support for new Micron ECC_On_Die chip(I-Die).
- 6. Displayed SGX-related items.
- 7. Updated Kaby Lake BIOS/SINIT ACM 1.2.0.
- 8. Added SumBbsSupportFlag into DAT file.
- 9. Added TPM PCR measurements for PCR[1], PCR[2], and PCR[6].
- 10. Removed the "Unrecoverable Media control failure" event log from BMC.
- 11. Added a workaround to clear onboard LAN device UR, CE status.
- 12. Fixed problem of valid bit being checked before IPMI CMOS clear flag.
- 13. Fixed system reset or hanging after Watchdog function is enabled during BIOS update.
- 14. Fixed issue of SUM TC306 and TC317 failing in certain configuration cases.
- 15. Fixed inability of the system to enter "Recovery mode" automatically if BIOS ACPI table in the Main Block is corrupted.
- 16. Fixed issue of system halting at 0xB2 when disabling JPG1.
- 17. Fixed incorrect CECC DIMM location being reported in BMC SEL log.
- 18. Fixed problem of IPMI device _CRS being reported as 0xca2 or 0xca3.
- 19. Fixed problem of "file size is zero" error occurring when using SUM in-band command "GetCurrentBiosCfg".
- 20. Fixed inability to find correct Memory CECC DIMM location through SD5.
- 21. Fixed problem of "No DIMM Information" showing for Memory CECC in Event log of BIOS Setup.
- 22. Fixed problem of recovery from JBR1/FFS Check hanging at 0x90.

2.0a (3/09/2017)

- 1. Changed BIOS revision to 2.0a.
- 2. Updated Intel RC/SI to 4.1.0.2.
- 3. Updated SPS to 4.1.3.22 PV release.
- 4. Added "Kaby Lake" to "System Agent Bridge Name".
- 5. Updated DT_P_119 for Skylake R0 stepping microcode M36506E3_000000B2.
- 6. Updated RSTe PreOS 4.6.0.1018.
- 7. Set "PCI AER Support" setup item to display to OOB by enabling "CBURN AERON".
- 8. Added AMI EarlyConsoleOut_02 module and SmcEarlyConsoleStatus from SVN#2572.
- 9. Fixed problem of system hanging at 0x35 with Skylake CPU when JBR1 is enabled after a flash failed.
- 10. Fixed problem of system hanging when installing an add-on card that contains non-SMC format VPD data.
- 11. Fixed operation of COM1 console redirection default setting (disabled) in MFG mode.
- 12. Fixed problem of Greenlow CPUs not working at minimum CPU frequency (800 MHz) with a non-ACPI aware OS (e.g., DOS and EFI Shell) when setting "Boot Performance Mode" to "Power Saving" in the BIOS setup menu.
- 13. Fixed problem of Multi event time count not following the specifications.

- 14. Fixed issue of power button not being reported in the ACPI table when set to "4 Seconds Override" in BIOS.
- 15. Enhanced code for no NM support to prevent CPU from running at power-saving speed.
- 16. Fixed problem of SMBIOS Type 17 Manufacturer being incorrect when installing memory that has an unknown manufacturer to display as "Undefined".

2.0 (01/06/2017)

- 1. Changed BIOS revision to 2.0 for Kaby Lake (Greenlow Refresh) CPU support.
- 2. Updated Kernel to 5.11_VEB_1ATYX009 and MRC 3.9.0.6.
- 3. Updated the codes for [ACPI PCI_DSM:function7].
- 4. Updated DT_P_116 for Kabylake-S ucode M22906E9_00000047_00000048.
- 5. Fixed problem of using AMIBCP to disable display of boot procedure messages failing on non-F platform.
- 6. Fixed problem of boot order priority in submenu group not working properly if selecting "Save Changes" and then selecting "Save Changes and Reset" in setup.
- 7. Implemented CPU maximum performance function.
- 8. Fixed problem of system hanging at 0x35 when enabling JBR1.
- 9. Fixed problem of system hanging at POST when using SUM to change BIOS settings without reboot and flashing BIOS at the same time.
- 10. Updated SPS to 4.1.3.19 PC release.
- 11. Patched inability of CTRL+HOME to work via console.
- 12. Synced up BIOS revision of setup and POST message with SMBIOS Type 0.
- 13. Fixed TC320 issue.
- 14. Reset BIOS configuration via IPMI CMOS clear flag.
- 15. Fixed problem of boot override menu showing blank item when changing boot mode to UEFI or Legacy.
- 16. Updated SMCI default key for Secure Boot.
- 17. Fixed issue of system booting to UEFI boot devices when there is no matching type found in boot list.
- 18. Added support for Intel LAN 82599 (1-port, DID=1557) to AOC report and UEFI PXE/iSCSI boot.
- 19. Set above 4G MMIO resource to 128GB.
- 20. Updated Aspeed VBIOS to v1.02.07.
- 21. Updated AMI EIP#268836 to fix problem of system looping in CPU SMM mode after running BMC firmware upgrade loop test for over 24 hours.
- 22. Added WDT timeout value selection.
- 23. Fixed problem of the FID table being x.x0 when revision is x.x.
- 24. Added support for VPD info and AssetInfo in SMBIOS type 40.
- 25. Changed PCN from 0xC0 to 0xC1 for 2133Mhz and SPD revision 1.1 support.
- 26. Set the CSM support to be disabled when Secure boot control is enabled.
- 27. Fixed problem of SATA Latency Tolerance Reporting (LTR) workaround not programming correctly.
- 28. Displayed USB Configuration setup page.
- 29. Fixed problem of Security Device Support hiding after disabling Security Device Support and rebooting.
- *30. Fixed failure of SUM test with duplicated strings.*
- 31. Displayed Execute Disable Bit setup item.
- 32. Updated SUM Feature Flag specifications to 1.4.
- 33. Displayed SATA "Aggressive LPM Support" setup option and set disabled as default.
- 34. Fixed problem of system hanging in BIOS setup when the SMBIOS event log is full.
- 35. Fixed incorrect VPD header version in VPD data.
- 36. Fixed incorrect SMBIOS Type 17 serial number.

- 37. Corrected SMBIOS help string typo.
- 38. Changed logo resolution from 800*600 to 1024*768.
- 39. Added check flash package flag that adds a flag for BIOS check.
- 40. Enabled OA1_SUPPORT to fix inability to modify OEM Data by AMIBCP.exe.
- 41. Fixed problem of memory UCE occurring in system after toggling "PCI PERR/SERR Support" setting with full DIMM population.
- 42. Fixed problem of "X2APIC Opt Out" item always being hidden.
- 43. Fixed problem of system hanging at 0x35 with Skylake CPU when JBR1 is enabled after flash failure.

1.0b (12/29/2015)

- 1. Updated SPS firmware to 4.0.3.89.
- 2. Updated Intel Skylake TXT ACM R1.3.
- 3. Added Skylake Platforms Silicon Initialization Code 1.6.0.1, Bug Name 2.
- 4. Added Skylake Platforms Silicon Initialization Code 1.6.0.1, Bug Name 3.
- 5. Displayed SGX setup item and set Enable as default.
- 6. Enabled use of BIOS setup menu item to enable/disable Win7 USB Keyboard/Mouse support.
- 7. Updated Skylake-S R0 stepping ucode M36506E3_000006A.
- 8. Added BMC VLAN items to BIOS setup.
- 9. Updated the GPNV memory error event structure.
- 10. Updated TCG2 module to label TCG2_07.
- 11. Fixed problem of system hanging with Broadcom Lan card (BCM 95708A0804F).
- 12. Added default value for Serial Ports.
- 13. Set disabled CECC error reporting as default.
- 14. Hid the "SW Guard Extensions (SGX)" item for SUM.
- 15. Fixed incorrect date and time of event log.
- 16. Fixed problem of system randomly hanging at post code 0xad while booting to UEFI Red Hat 6.5 x64 OS.
- 17. Fixed problem of DMI being lost after clearing event log.
- 18. Fixed inability to insert OA3 and clear OA2 backup area.
- 19. Fixed problem of HDD dropping when enabling Above 4G decoding.
- 20. Added support for PROCHOT out function when CPU overheat alarm is triggered.
- 21. Fixed issue of low IB bi-direction performance.