

BIOS Release Notes Form

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Product Name	X11SRL-F
Release Version	2.8
Release Date	07/07/2023
Build Date	07/07/2023
Previous Version	2.7
Update Category	Recommended
Dependencies	None
Important Notes	None
Enhancements	<ol style="list-style-type: none">1. Updated Microcode 50654 to MB750654_02007006 per IPU 2023.3 Processor Advisory INTEL-TA-00828 to address CVE-2022-40982 (6.5 Medium).2. Updated RC code to 5122.D00 per IPU 2023.3 Processor Advisory INTEL-TA-00813 to address CVE-2022-43505 (4.1 Medium).3. Updated Intel Corporate ME FW to version ME 11.12.94.2479v5 for IPU 2023.3 for INTEL-TA-00783 to address CVE-2022-36392 (8.6 High) and CVE-2022-29871 (6.7 Medium).4. Updated Microcode 50657 to MBF50657_05003604 per IPU 2023.3 Processor Advisory INTEL-TA-00828 to address CVE-2022-40982 (6.5 Medium).5. Updated MBF50656_04003604 for IPU 2023.2.

	6. Enhanced the solution for the error/warning message from dmidecode after a modification by AMIDE. Refer to PurleyRefresh SVN #534.
New features	N/A
Fixes	1. Fixed BIOS Version Build-Date unique file name fail because BIOS Revision cannot be found.

Release Notes from Previous Release(s)

2.7 (12/26/2022)

1. Exposed Memory PPR Type item.
2. Updated Intel RSTe/VROC RAID Option UEFI Driver to 7.0.0.2086.
3. Added CPU Core Limit items to the BIOS setup menu.
4. Enabled "CUSTOMIZED_SECURE_BOOT_DEPLOYMENT_SETUP" to support Secure Boot deployment in the BIOS setup menu.
5. Updated Basin Falls BIOS ACM and SINIT ACM to PW signed version 1_3_95_20220113_KBL_PW and 1_3_64_20211210_KBL_PW_signed for IPU 2022.1 for INTEL-TA-00601 to access CVE-2021-33123 (8.2 High) and CVE-2021-33124 (7.5 High).
6. Update Skylake microcode MB750654_02006d05 and Cascadelake microcode MBF50657_05003302 and MBF50656_04003302 for IPU 2022.1 for INTEL-TA-00616 Security Advisory to address CVE-2021-21131(3.3, Low) and CVE-2021-21136(2.7, Low) security issue and for INTEL-TA-00615 Security Advisory to address CVE-2022-21166(5.5 Medium) security issue.
7. Update RC code to 4147.D01 for integration for Glacier Falls UEFI Firmware Full Source 2022.3 IPU PV.
8. Update Intel Corporate ME FW to version ME 11.12.93.2323v2 for IPU 2022.3 for INTEL-TA-00610 to address CVE-2022-26845 (8.7 High), CVE-2022-29893 (8.1 High), CVE-2022-27497 (8.6 High), and CVE-2022-33159 (7.4 High).
9. Fixed issue with the re-try boot function not working.
10. Fixed Intel Turbo Boost Max Technology 3.0 yellow ban issue.
11. Fixed IPMI web not detecting AOC-S3108L-H8IR when AOC-S3108L-H8IR is plugged into RSC-RR1U-E16, RSC-RR1U-E8, RSC-R2U-E8, or RSC-R1U-UL.
12. Fixed two boot devices in boot order with UEFI RedHat/CentOS/Fedora/Ubuntu.
13. Fixed system hang when triggering ECC.
14. Fixed no event log when triggering UECC.

2.3a (12/2/2020)

1. Added controller by SmcSataFrozen when Skip TCG Devices is frozen.
2. Changed the BIOS version to 2.3a.
3. Fixed problem of the system hanging up at CP: 3Bh when plugging in 5 VGAs to the system, including one VGA in the PCH.
4. Fixed issue of system resetting when using VGA card Tesla P100 or K80.
5. Fixed problem of cburn displaying PCI AER issue when plugging in 5 VGAs in the system including the PCH slot.

2.3 (10/28/2020)

1. Updated SecureBoot module to label 32 for AMI SA-50085 Grub Bootloader vulnerability to address CVE-2020-10713 (8.2, high) security issue.
2. Added "Auto" item to the Above 4G option and set default to "Auto".
3. Updated SecureFlash_23 for AMI-SA50081 Security Update.
4. Updated ME corporate firmware 11.12.80.1734 for INTEL-TA-00391 Security Advisory to address CVE-2020-8752 (9.4, Critical), CVE-2020-8753 (8.2, High), CVE-2020-12297 (8.2, High), CVE-2020-8745 (7.3, High), CVE-2020-8705 (7.1, High), CVE-2020-12303 (7.0, High), CVE-2020-8757 (6.3, Medium), CVE-2020-8756 (6.3, Medium), CVE-2020-8760 (6.0, Medium), CVE-2020-8754 (5.3, Medium), CVE-2020-8747 (4.8, Medium), CVE-2020-12356 (4.4, Medium), CVE-2020-8746 (4.3, Medium), CVE-2020-8749 (4.2, Medium) security issues.

5. Updated the BIOS version to 2.3.
6. Updated Skylake microcodes MB750654_02006A08 and MBF50657_05003003 for INTEL-SA-00358 Security Advisory to address CVE-2020-0590 (7.7, High), CVE-2020-0587 (6.7, Medium), CVE-2020-0591 (6.7, Medium), CVE-2020-0593 (4.7, Medium), CVE-2020-0588 (3.8, Low), and CVE-2020-0592 (3.0, Low) security issues.
7. Added the CPU core limit items to the BIOS setup menu.
8. Fixed inability of SUM to dump the setup items of Advanced/Chipset Configuration/North Bridge/I/O Configuration page.
9. Fixed issue of system resetting when using VGA card Tesla P100 or K80.
10. Fixed problem of system hanging on CP: B6h when plugging in RTX 2080 and P100, then clearing CMOS.

2.2 (10/6/2020)

1. Updated SecureBoot module to label 32 for AMI SA-50085 Grub Bootloader vulnerability to address CVE-2020-10713 (8.2, high) security issue.
2. Updated ME corporate 11.12.79.1722 for INTEL-SA-00404 Security Advisory to address CVE-2020-8758 (9.8, Critical) security issue.
3. Added "Auto" item to the Above 4G option and set default to "Auto".
4. Updated SecureFlash_23 for AMI-SA50081 Security Update.
5. Fixed inability of SUM to dump the setup items of Advanced/Chipset Configuration/North Bridge/I/O Configuration page.
6. Fixed issue of system resetting when using VGA card Tesla P100 or K80.

2.1 (6/19/2020)

1. Updated the BIOS version to 2.1.
2. Enhanced support for Glacier Falls WS Turbo Boost 3.0 feature.
3. Updated ME 11.12.77.1664 for 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-2020-8674 (4.3, Medium), and CVE-2020-0597 (6.5, Medium) security issues.
4. Set "No memory DIMM detected, install memory DIMMs" string to display when there is no DIMM in a slot.
5. Added back the "NVMe Configuration" items.
6. Updated Intel RSTe RAID Option ROM/UEFI Driver to 6.3.0.1005.
7. Updated Skylake microcode MB750654_02006906 for INTEL-SA-00329 Security Advisory to address CVE-2020-0548 (2.8, Low) and CVE-2020-0549 (6.5, Medium) security issues and Cascade Lake microcodes MBF50657_05002F01 and MBF50656_04002F01 for INTEL-SA-00329 Security Advisory to address CVE-2020-0548 (2.8, Low) and CVE-2020-0549 (6.5, Medium) security issues.
8. Swapped CPU Slot 3 and Slot 4 strings.
9. Updated RC code to 1524.D00 for GlacierFallsWS IPU 2020.1.
10. Fixed failure of system to boot when plugging in K80.
11. Fixed problem of the SMBIOS type 17 manufacturing date being empty.
12. Fixed problem of the system hanging up when EuP mode is enabled then CMOS is cleaned.
13. Fixed failure of SUM TC: 210/304/408 test.
14. Corrected DMI Type2 when the PCD product name is shorter than the FRU1 product name.

2.0a (2/26/2020)

1. Updated Glacier Falls RC code to 2.0.44.50.
2. Added support for system boot up when plugging in more than 4 VGA add-on cards.
3. Added ACS control item to Advanced/Chipset Configuration/North Bridge/IIO Configuration/Intel VT for Directed I/O (VT-d) page.
4. Added function to limit the first priority VGA use to under 4G resource.
5. Removed the "System Firmware Error (POST ERROR)" error log from BMC and "EFI 01030006" from BIOS event log.
6. Fixed problem of the system hanging up at CP: 3B when plugging in 5 VGAs to the system, including one VGA in the PCH.

2.0 (12/11/2019)

1. Added support for Glacier Falls CLX-W CPU.
2. Updated PCIe module in the Glacier Falls platform.
3. Updated the USB module in the Glacier Falls platform.
4. Updated the TPM module in the Glacier Falls platform.
5. Updated the console redirection module in the Glacier Falls platform.
6. Updated the serial port function in the Glacier Falls platform.
7. Updated the power policy setting in the Glacier Falls platform.
8. Updated the SATA module function in the Glacier Falls platform.
9. Added SMC Password style in the Glacier Falls Projects.
10. Added AER and MCE items.
11. Added "SMBIOS Preservation" Enabled/Disabled item for flash recovery.
12. Updated ME 11.12.00.1622.
13. Updated VROC VMD driver, RSTe UEFI driver, and Legacy ROM to 6.2.0.1034.
14. Implemented prompt message at post screen when entering BIOS recovery mode for the platform to support early video.
15. Updated Skylake microcode MB750654_02000065 for INTEL-SA-00271 Security Advisory to address CVE-2019-11139 (5.8, Medium) security issue and Cascade Lake microcodes MBF50656_0400002C & MBF50657_0500002C for INTEL-SA-00270 Security Advisory to address CVE-2019-11135 (6.5, Medium) security issue.
16. Set Memory Topology to hide empty items when there is no memory in slots.
17. Modified the POST time (DXE) POST code foreground and background color for Supermicro logo during quiet boot.
18. Updated Basin Falls BIOS ACM and SINIT ACM to PW signed version.
19. Fixed inability of system to boot when setting BIOS setup menu CSM to disabled.
20. Fixed failure of recovery BIOS when plugging in TPM 1.2 or TPM 2.0 device.
21. Fixed problem of the "Storage Option ROM/UEFI Driver" being masked when using AMI SCE tool to dump to BIOS setup items.
22. Fixed problem of non-support status returning when using AFU tool to clean event log.
23. Fixed inability to change the VGA priority by SMC Option ROM control function.
24. Set message to show in the onboard VGA output when changing VGA priority to add-on card.
25. Added item "Storage Option ROM/UEFI Driver" to Advanced/SATA and RST Configuration page.
26. Fixed inability of X11SRL to use AFU to flash BIOS when secure flash is enabled.
27. Fixed inability to load VMD driver when enabling VMD ports under "Intel VMD Technology" menu.
28. Prevented CMOS from writing failed status.
29. Fixed failure of SUM test case 308.

30. *Corrected the memory Data Width.*
31. *Fixed problem of key details showing "Security Violation" after loading Factory secure boot keys.*
32. *Updated the "Change SMBIOS Event Log Settings" string.*
33. *Set IPMI WDT function to enabled.*
34. *Fixed ability to enter Setup Menu if ADMIN password is set after pressing "Enter".*
35. *Fixed failure of serial port when using PC Check tool test.*
36. *Enabled the PROCHOT pin as BIDIRECTIONAL by default to support processor hot feature.*
37. *Fixed malfunction of the Watchdog.*
38. *Fixed failure of X11SRL SOL function test.*
39. *Fixed failure of user password to clear after clearing administrator password.*
40. *Fixed inability to use IPMI Web to eject when plugging in NVMe add-on card (AOC-SLG3-4E4).*
41. *Fixed failure of IPMI web setting to sync with BIOS IPMI page.*
42. *Fixed problem of system hanging up in CP: A2h when running PCH on/off test.*
43. *Fixed problem of PCH temperature reading fail event log occurring for IPMI when updating BIOS with the ME.*