

BIOS Release Notes Form

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| Product Name | X10SRL-F |
| Release Version | 3.4 |
| Release Date | 06/09/2021 |
| Build Date | 06/09/2021 |
| Previous Version | 3.3 |
| Update Category | Recommended |
| Dependencies | None |
| Important Notes | None |
| Enhancements | <ol style="list-style-type: none">1. Changed BIOS revision to 3.4.2. Enhanced IPMI setup page to show "IPMI STATUS" string.3. Updated Haswell-EP/Broadwell-EP CPU microcode version for Intel-Restricted-2021-1-IPU-20210322_20211IPU release. Updated Haswell-EP/Broadwell-EP CPU microcode for IPU2021.1. Verified Haswell-EP C0,1/M0,1/R2 CPU microcode version is 0x00000046. Verified Broadwell-EP B0/M0/R0 CPU microcode version is 0x0B00003E.4. Updated Grantley Refresh RC IPU 2021.1 (RC 278R17) release for INTEL-SA-00463 Security Advisory to address CVE-2020-12357(7.5, High), CVE-2020-8670(7.5, High), CVE-2020-8700(7.5, High), CVE-2020-12359(7.1, High), CVE-2020-12358(6.7, Medium), CVE-2020-12360(5.6, Medium), CVE-2020-24486(5.5, Medium) and CVE-2020-0589(3.8, Low) security issues. |

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| New features | N/A |
| Fixes | N/A |

Release Notes from Previous Release(s)

3.3 (10/28/2020)

1. Changed BIOS revision to 3.3.
2. Updated Haswell-EP C0,1/M0,1/R2 CPU microcode version 0x44 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.
3. Prevented abnormal display when installing the AMD MI25 and setting the VGA priority to off-board.
4. Prioritized Disk SMART error event before displaying disk SMART error.
5. Updated Grantley Refresh RC for INTEL-SA-00390 Security Advisory to address CVE-2020-8764 (8.2, High), CVE-2020-8738 (7.5, High), CVE-2020-8740 (6.7, Medium), and CVE-2020-8739 (4.6, Medium) security issues.

3.2 (11/22/2019)

1. Changed BIOS revision to 3.2.
2. Updated SINIT ACM 3.1.4 PW for INTEL-SA-00240 Security Advisory to address CVE-2019-0151 (7.5, High) and CVE-2019-0152 (8.2, High) security issues.
3. Updated SATA/sSATA RAID OPROM/EFI driver to VROC PreOS v6.2.0.1034.
4. Updated Broadwell-EP B0/M0/R0 CPU microcode MEF406F1_0B000038 for INTEL-SA-00219 Security Advisory to address CVE-2019-0117 (6.0, Medium) security issue and for INTEL-SA-00220 Security Advisory to address CVE-2019-0123 (8.2, High) and CVE-2019-0124 (8.2, High) security issues.
5. Updated AMI EIP453732, EIP470365, EIP451538, and CryptoPkg 32.01 for AMI SA50066.

3.1c (5/2/2019)

1. Changed BIOS revision to 3.1c.
2. Updated Intel Server Platform Services 3.1.3.72 for Grantley Refresh Platforms for INTEL-SA-00213 Security Advisory 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.
3. Updated Haswell-EP/Broadwell-EP CPU microcode from SRV_P_273 for INTEL-SA-00233 Security Advisory to address CVE-2018-12126, CVE-2018-12127, and CVE-2018-12130 security issues.
4. Forced a global reset if SPI descriptor is not write-protected after BIOS flash.
5. Implemented anti-rollback for FDT Read-Only.
6. Implemented multi-line IPMI page text and string.
7. Updated EIP393007 & EIP411789 for TPM vulnerability when resuming S3.
8. Updated SATA/sSATA RAID OPROM/EFI driver to VROC PreOS v6.1.0.1017.

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. Added support for setting IPv6 Static Router1 prefix length and value in BIOS setup menu feature.
13. Fixed problem of BIOS always retrying boot when Re-Try Boot is Disabled.
14. Fixed malfunction of METW if many error events are triggered within a very short time.
15. Displayed the driver health support pages to support LSI (Broadcom 9440-8i) driver health status.
16. Fixed malfunction of Windows Consistent Device Naming (CDN).

3.1 (6/6/2018)

1. Updated CPU microcode to address 'Spectre' derivatives (CVE-2018-3639 & CVE-2018-3640) security issue.
2. Changed BIOS version to 3.1.
3. Updated Broadwell-EP RC 4.4.0 release.
4. Added support for IPMI IPV6.
5. Removed unsupported memory frequency options from setup menu.
6. Fixed problem of Afu /O command clearing SMC SMBIOS region (\$SMC).
7. Fixed problem of SUM OOB GetSataInfo always showing "Configuration Type" as "AHCI" when setting "Configure SATA as" to "RAID" or "IDE".
8. Fixed failure of SMBIOS to change to default even if preserve SMBIOS setup item is set to disabled during recovery.
9. Fixed problem of the system debug card hanging at 79h after setting JBR1 to pins 2-3 (BIOS RECOVERY).
10. Set Descriptor Region of BIOS Region Write Access to "No".

3.0a (02/08/2018)

1. Updated CPU microcode to address 'Spectre' variant 2 (CVE 2017-5715) security issue.
2. Updated SATA RAID OPRM/EFI driver to RSTe PreOS v4.7.0.1014.
3. Updated Intel Server Platform Services 3.1.3.50 for Grantley Refresh Platforms.
4. Removed support for using Ctrl+home to trigger recovery.
5. Changed Memory correctable threshold to 100 and enabled Cloaking for Broadwell CPU E5-26xx SKU.
6. Changed BIOS revision to 3.0a.
7. Updated Broadwell-EP RC 4.3.0 PLR10 release.
8. Removed the "P1" string when Memory error occurs on UP server.
9. Corrected POST diagnostic signOn string.
10. Patched Micron Z11C DIMM to improve stability.
11. Changed tCCD_L Relaxation default to 1 and changed string from Enabled to Auto.
12. Appended VPD - VB tag in VPD-W Tag(0x91) area.
13. Updated new MRC error log definition.
14. Added Intel SPI vulnerability patch for Grantley.
15. Added "SMBIOS Preservation" Enabled/Disabled item for flash recovery.
16. Enhanced SMC Recovery Flash Boot Block feature.
17. Displayed setup item "ACS Control" to Enable/Disable PCIe Access Control Services Extended Capability.
18. Added BBS reset function to SmcOobLoadBiosDefault().
19. Added SumBbsSupportFlag into DAT file.

20. *Implemented SMC Recovery Flash Boot Block feature.*
21. *Fixed issue of SUM TC306 and TC317 failing in certain configuration cases.*
22. *Fixed problem of system hanging after Watch Dog function is enabled and then BIOS is updated.*
23. *Fixed incorrect memory error location on UP server.*
24. *Fixed problem of system hanging on POST code 0xB2.*
25. *Fixed problem of system resetting or hanging after Watch Dog function is enabled and then BIOS is updated.*
26. *Fixed inability to get correct Memory CECC DIMM location via SD5.*
27. *Fixed problem of incorrect PCI slot number showing on Legacy/UEFI mode.*