

# BIOS Release Notes Form

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<b>Product Name</b>	<b>X12STL-F</b>
<b>Release Version</b>	<b>1.4</b>
<b>Release Date</b>	<b>12/26/2022</b>
<b>Build Date</b>	<b>12/26/2022</b>
<b>Previous Version</b>	<b>1.2</b>
<b>Update Category</b>	<b>Recommended</b>
<b>Dependencies</b>	<b>None</b>
<b>Important Notes</b>	<b>None</b>
<b>Enhancements</b>	<ol style="list-style-type: none"><li>1. Updated Microcode A0671 to 0x57 and A0653 to 0xF4 per IPU 2023.1 Processor Advisory INTEL-TA-00767 to address CVE-2022-38090 (6.0 Medium).</li><li>2. Updated ACM version to 1.14.46 (20220819) per IPU 2023.1 Processor Advisory INTEL-TA-00767 to address CVE-2022-30704 (7.2 High).</li><li>3. Updated the SPS ME firmware to SPS_E3_06.00.03.309.0 per IPU 2023.1 Processor Advisory INTEL-TA-00718 to address CVE-2022-36794 (6.0 Medium).</li><li>4. Updated EfiOsBootOptionNames and relevant dependencies for Security update.</li></ol>
<b>New features</b>	<b>None</b>

<b>Fixes</b>	<b>None</b>
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**1.2 (5/19/2022)**

1. *Applied patch based on AMI Customer Advisory document UefiNetworkStack Aptio 5.x SA50110.*
2. *Changed the text string "Security Erase Configuration" to "SMCI Security Erase Configuration."*
3. *Filtered the dynamic TCG security pages to patch the SUM ChangeBiosCfg failed problem.*
4. *Updated Microcode to 0x53 for IPU 2022.1 SGX Advisory INTEL-TA-00614 to address CVE-2022-0005 (4.9 Medium), Processor Advisory INTEL-TA-00617 to address CVE-2022-21151 (5.3 Medium) and Security Advisory INTEL-TA-00615 to address CVE-2022-21166 (5.5 Medium).*
5. *Updated BIOS ACM and SINIT ACM to 1.14.39 (20211214) for 2022.1 IPU – BIOS Advisory, INTEL-TA-00601 to address CVE-2021-33123 (8.2 High), CVE-2021-33124 (7.5 High) and CVE-2021-33103 (7.5 High).*
6. *Changed the chassis type of the FRU0 to SMBIOS type 3 if it is not 1 or 2.*
7. *Updated AHCI driver from version 23 to version 28.*
8. *Enabled boot option for single HDD under RAID mode.*
9. *Updated Microcode to 0x54 per IPU 2022.2 Processor Advisory INTEL-TA-00657 to address CVE-2022-21233 (6.0 Medium).*
10. *Fixed an error when an unknown device is installed and Intel® TXT is enabled.*

**1.0a (11/18/2022)**

1. *Added Intel PEG port width drop workaround and PEG port speed drop workaround.*
2. *Added Intel IPS #00641060 patch to support disabling of AVX/AVX3. Added AVX and AVX3 setup items.*
3. *Updated Microcode M02A0671\_0000004C.*
4. *Added LAN1 and LAN2 Support items in PCIe/PCI/PnP Configuration.*
5. *Fixed an issue that when disabling BMC IPv6 Support in the BIOS, the IPv6 Address Status will show "Disabled" instead of "\_".*
6. *Fixed system Recovery hang on 0x94 after BIOS crash under Dual mode.*
7. *Fixed serial number in SMBIOS type 17, as it loses bytes when using Samsung DDR4 memory.*
8. *Fixed SMCIPMITOOL/IPMICFG where it can't set persistent boot under DUAL mode, and Legacy mode through IPMI Boot Flag Command.*
9. *Fixed susceptibility to DDR4 Rowhammer attacks.*