

## BIOS Release Notes Form

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<b>Product Name</b>	<b>X12STL-F</b>
<b>Release Version</b>	<b>1.6</b>
<b>Release Date</b>	<b>06/09/2023</b>
<b>Build Date</b>	<b>06/09/2023</b>
<b>Previous Version</b>	<b>1.4</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. Update BIOS version to 1.6.</li><li>2. Updated Microcode A0653 to 0xf8 and A0671 to 0x59 per IPU 2023.3 Processor Advisory INTEL-TA-00828 to address CVE-2022-40982 (6.5 Medium).</li><li>3. Updated RC per IPU 2023.3 Processor Advisory.</li><li>4. Updated the SPS ME firmware to SPS_E3_06.00.03.505.0 per IPU 2023.3 Processor Advisory.</li><li>5. Updated the BMC/BMC Network Configuration page IPv6 DNS/DNS2 setting.</li><li>6. [SecureBoot][SmcOOB] Added insert Secure boot key via SUM/Redfish.</li></ol>
<b>New features</b>	<b>None</b>

<b>Fixes</b>	<b>None</b>
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## **Release Notes from Previous Release(s)**

### **1.4 (1226/2022)**

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).
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).
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).
4. Updated EfiOsBootOptionNames and relevant dependencies for Security update.

### **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.