

## IPMI Firmware / BIOS Release Notes Form

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<b>Product Name</b>	<b>X11SPi-TF</b>
<b>Release Version</b>	<b>3.1</b>
<b>Release Date</b>	<b>5/21/2019</b>
<b>Previous Version</b>	<b>3.0c</b>
<b>Update Category</b>	<b>Critical</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 Skylake-SP/Cascade Lake-SP CPU microcode for INTEL-SA-00233 Security Advisory.</li><li>2. Updated to SPS 4.0.04.381 or above for INTEL-SA-00213 Security Advisory.</li><li>3. Updated Intel BKCWW16 2019 PV PLR1.</li><li>4. Updated SPS_E5_04.01.04.296.0 from BKC WW16 2019.</li><li>5. Updated EIP467272 for AMI SA50069, SA50070.</li><li>6. Set SDDC Plus One or SDDC to disabled by default.</li><li>7. Updated SATA/sATA RAID OPRM/EFI driver to VROC PreOS v6.1.0.1017.</li><li>8. Set Leakey bucket to decrease one memory correctable error count within 2.15 minutes and threshold 512.</li><li>9. Enabled ADDDC by default.</li></ol>

<b>New features</b>	<b>N/A</b>
<b>Fixes</b>	<b>1. Fixed problem of system halting or rebooting at POST code 0xB2 or 0x92 when total GPT partition number is more than 256 and RSD is enabled.</b> <b>2. Fixed inability to change IPv6 address or IPv6 Router1 IP address.</b>

**Release Notes from Previous Release(s)**

**3.0b (3/4/2019)**

1. Added support for Purley Refresh platform.
2. Updated SATA RAID OPROM/EFI driver to RSTe PreOS v6.0.0.1024.
3. Set BMC MAC address to UUID for system without onboard LAN1 or with onboard LAN1 disabled.
4. Set PCIe correctable and uncorrectable (non-fatal) error report to disabled by default.
5. Added support for RFC4122 UUID format feature to set RFC4122 encoding from build time produced by IPMICFG 1.29 tool or newer.
6. Updated CPU microcodes from SRV\_P\_270.
7. Disabled unused SPS ME "CUPS IIO" and "Volumetric Airflow" sensor.
8. Added 2933 to memory POR.
9. Implemented SMBIOS type 161 for multi-chip ultra riser card.
10. Added support for Linux built-in utility efibootmgr.
11. Updated valid range of IPMI setup item VLAN ID to 1-4094.
12. Added driver health warning message.
13. Set NVDIMM ADR timeout to 600us.
14. Updated to SPS 4.1.02.174 or above for INTEL-SA-00185 Security Advisory and RC 549.D13 or above for INTEL-SA-00192 Security Advisory.
15. Fixed problem of setup item "Quiet Boot" staying enabled after flashing BIOS with "Quiet Boot" disabled.
16. Fixed incorrect PBF high frequency core number when Hyper-Threading is disabled.
17. Added workaround for failure of BIOS flash with 156 bytes PubKey (Error: "Secure Flash Rom Verify Fail").
18. Modified UEFI network description to IPv4/IPv6 to follow Industry Standard.
19. Patched problem of system hanging at 0x94 when plugging in Nvidia Tesla T4 card.

**2.1 (6/14/2018)**

1. Updated CPU microcode to address 'Spectre' derivatives (CVE-2018-3639 & CVE-2018-3640) security issue.
2. Updated Purley RC 154.R13, SPS 4.0.04.340 and ACM 1.3.7, SINIT ACM 1.3.4.
3. Updated SATA RAID OPROM/EFI driver to RSTe PreOS v5.4.0.1039.
4. Added support for UEFI mode PXE boot of F12 hot key Net boot.
5. Added BIOS/ME downgrade check for SPS 4.0.4.340.
6. Added one event log to record that the event log is full.
7. Displayed PPR setup item.
8. Fixed problem of SUM GetSataInfo showing incorrect "Configuration Type" when setting "Configure sSATA as" to "AHCI" or "RAID" on sSATA controller.
9. Fixed problem of Ctrl + Alt + Del causing system to hang after flashing BIOS.
10. Fixed problem of system hanging when installing Linux OS after COM1 & COM2 IO/IRQ exchange.
11. Fixed failure of WDT function.

**2.0b (2/26/2018)**

1. Updated CPU microcode to address 'Spectre' variant 2 (CVE 2017-5715) security issue.
2. Added setup item "SmcBusMasterEn" for enabling Parent bridge of the devices in the gSmcPciForceEnableBusMasterList.
3. Updated Purley RC 151.R03.
4. Displayed setup item "ACS Control" to Enable/Disable PCIe Access Control Services Extended Capability, with Enabled as default.

5. *Changed RC default setting to upgrade POST Memory correctable error to uncorrectable error and map out the channel.*
6. *Fixed problem of DMI being cleared when running SUM LoadDefaultBiosCfg.*
7. *Disabled CPU2 IIO PCIe root port ACPI hot plug function.*
8. *Fixed issue with IPMI force boot.*
9. *Fixed problem of SMC skipping first boot option in UEFI mode when retrying boot.*
10. *Fixed inability to reset the system under DOS by pressing "Ctrl-Alt-Del" on USB keyboard when "Port 60/64 Emulation" is disabled.*
11. *Fixed inability of some CPUs to display correct microcode revision under BIOS setup menu.*