

## IPMI Firmware / BIOS Release Notes Form

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<b>Product Name</b>	<b>X11SCH-F/LN4F</b>
<b>Release Version</b>	<b>1.0b</b>
<b>Release Date</b>	<b>5/24/2019</b>
<b>Previous Version</b>	<b>1.0</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 BIOS version to 1.0b.</li><li>2. Updated RC to version 7.0.58.41.</li><li>3. Updated Coffee Lake-S R-0 stepping CPU microcode M22906ED_000000B4.</li><li>4. Updated MCU (906EA-U0 + 906EB-B0 + 906EC-P0) for INTEL-SA-00233 Security Advisory to address CVE-2018-12126, CVE-2018-12127, CVE-2018-12130 and CVE-2019-11091 security issue.</li><li>5. Updated SPS 5.1.03.62 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 issue.</li><li>6. Updated Intel RSTe RAID Option ROM/UEFI Driver to 6.1.0.1017.</li><li>7. Updated SMC OOB module to support SMC LSI OOB Module.</li></ol>

	<p>8. Added Early Video messages when BIOS is in recovery mode.</p> <p>9. Added "ACPI T-States" setup item.</p> <p>10. Enhanced JPG1 function for running SUM with JPG1 2-3.</p> <p>11. Enhanced "NVMe FW Source" function.</p> <p>12. Added "Sata Frozen" function.</p> <p>13. Added support for RFC4122 UUID format feature so that RFC4122 encoding from build time is produced by IPMICFG 1.29 tool or newer version.</p> <p>14. Displayed "AERON" and "MCEON" string during POST when "PCI AER Support" or "Memory Corrected Error" is enabled.</p> <p>15. Hid "ECC Support" item.</p> <p>16. Set the default of "Memory Corrected Error Enabling" to Disabled.</p> <p>17. Updated the Intel BIOS ACM version to 1.5.0 and SINIT ACM to 1.6.0.</p> <p>18. Displayed Intel Graphics item and set the default value to Disabled.</p> <p>19. Changed Package C State Limit default value to Auto and removed the C10 option.</p> <p>20. Added "MCEON" and "AERON" POST string for SOL console when items are enabled.</p> <p>21. Added support for Linux built-in utility efibootmgr.</p> <p>22. Updated BIOS Setup Menu for the item "Always Turbo Mode" in Advanced/CPU Configuration page.</p> <p>23. Updated IPv4 and IPv6 setup items string.</p> <p>24. Hid Serial Port 2 Attribute item if there is no real BMC COM.</p> <p>25. Added "Driver Health" setup item.</p> <p>26. Added Driver Health Warning message.</p> <p>27. Updated to avoid inability to flash OA License Key randomly.</p> <p>28. Renamed "AC Loss Policy Depend on" back to "Restore on AC Power Loss".</p>
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	<p>29. Enhanced the solution for the error/warning message from dmidecode after a modification by AMIDE.</p> <p>30. Displayed the CPU's PL1 and PL2 items of Advanced -&gt; CPU Configuration page in the BIOS setup menu.</p> <p>31. Updated USB and Fastboot module.</p> <p>32. Set default setting Power Limit 2 to 150W when 8 Core CPU is used in the system.</p> <p>33. Set OptionRom and boot mode select to EFI while CSM is disabled.</p> <p>34. Changed UEFI LAN Boot option name format for SUM requirement.</p> <p>35. Displayed the setup item "BME DMA Mitigation" in the Advanced -&gt; PCIe/PCI/PnP Configuration page.</p>
New features	N/A
Fixes	<p>1. Fixed issue of serial port UID not following COM port order after BIOS update.</p> <p>2. Fixed problem of InBand receiving incorrect OEM FID size.</p> <p>3. Modified UEFI network description to IPv4/IPv6 to follow Industry Standard.</p> <p>4. Removed processor version "Type" string for Mehlow Server template.</p> <p>5. Added Disabled option for "Onboard Video Option ROM" setup item.</p> <p>6. Fixed issue of onboard video having an output when JPG1 is disabled.</p> <p>7. Updated "Redirection After BIOS POST" string for Mehlow Server template.</p> <p>8. Fixed problem of BMC VGA status being enabled in SMBIOS Type 41 when JPG1 is disabled (In 2-3).</p>

	<p>9. Fixed lack of onboard VGA information in Type 40.</p> <p>10. Fixed issue of system using a constant 7-8% of the CPU when an interruption occurs.</p> <p>11. Fixed issue of DIMM location showing “i\$No DIMM infoj” in Event Logs when ECC error occurs.</p> <p>12. Fixed issue of “”?[1;31;40m” being shown on ] POST screen when EFI driver is “unhealthy”.</p> <p>13. Fixed problem of the value of Power Limit 2 displaying as 0 in setup menu when setup menu is set to 0 (AUTO).</p> <p>14. Fixed inability of Intel Optane Memory M.2 to be detected.</p> <p>15. Fixed issue of system may or may not hanging up when LAN1 is disabled.</p> <p>16. Fixed issue of system recovery hanging up when TPM is installed.</p> <p>17. Fixed issue of 4KN HDDs reporting 1TB when it should be 8TB.</p> <p>18. Updated “Restore Optimized Defaults” string for Mehlow Server template.</p> <p>19. Fixed problem of the system hanging in CP: 0xF4 when the system recovery occurs in BIOS with TPM module.</p>
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***Release Notes from Previous Release(s)***

***N/A***