

# BIOS Release Notes Form

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<b>Product Name</b>	<b>X13DSF-A</b>
<b>Release Version</b>	<b>2.2</b>
<b>Release Date</b>	<b>05/03/2024</b>
<b>Previous Version</b>	<b>2.1a</b>
<b>Update Category</b>	<b>Enhancement</b>
<b>Dependencies</b>	None
<b>Important Notes</b>	None
<b>Enhancements</b>	<ol style="list-style-type: none"><li>1. Update source base to AMI label 101 (Intel WW05 BKC - MR1).</li><li>2. Update EDK2 NetworkPkg for AMI SA50218 Security Advisory (PixieFai Vulnerability).</li><li>3. Update AMITSE module for AMI SA50230 and SA50216 Security Advisory.</li><li>4. Update CPU Vpp table for supporting BPN-E3S5-126ESN-1.</li></ol>
<b>New features</b>	None
<b>Fixes</b>	<ol style="list-style-type: none"><li>1. Improved compatibility and reliability.</li></ol>

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

<b>1.0 (10/28/2022)</b> <i>Initial release.</i>
<b>1.1 (01/19/2023)</b> <ol style="list-style-type: none"><li>1. Updated to 5.29_EagleStreamCrb_0ACOR_071 and SPS 6.0.4.25.</li><li>2. Updated Intel(R) Processor SPR E-Stepping microcode 2B000161.</li><li>3. Expose "CXL Security Level" and "CXL Header Bypass" for CXL.</li><li>4. Regular Improvement.</li></ol>
<b>1.1a (03/07/2023)</b> <ol style="list-style-type: none"><li>1. Updated Intel BKC 2023_WW09, Intel RC Version 9409.P31 MR2 and HBM PV.</li><li>2. Updated SPS 6.0.4.33.</li><li>3. Updated 806F8 Intel(R) Processor SPR E-Stepping micro code 2B0001B0.</li><li>4. Remove AOC Lan mac from BMC dashboard.</li><li>5. Corrected smbios type 17 Device Locator strings.</li></ol>
<b>1.3a (06/05/2023)</b> <ol style="list-style-type: none"><li>1. Updated Intel BKC SPR 2023_WW13 PLR1, Intel RC Version 101.D66.</li><li>2. Enhance the no bootable device message on POST screen feature.</li><li>3. Change the strings from "Lock mode" to "Lockdown mode".</li></ol>

4.	Set PPIN default value to Unlock.
5.	Improved compatibility and reliability.
<b>1.4 (08/14/2023)</b>	
1.	Updated Intel BKC SPR 2023_WW21 PLR2/3, IPU 2023.3, Intel RC Version 103.D70.
2.	Update Intel Server Platform Services SPS_E5_6.0.5.46 PLR3 HF for Eagle Stream Server.
3.	Support BPN-E3S5-126ESN and RSC-X2R-68G5 hotplug and update PCIe MUX setting for RSC-X2R-68G5.
4.	Modify ME version strings, remove the "Manufacturer ID" string.
5.	Enhance Security Erase module, increase array size.
6.	Improved compatibility and reliability.
<b>2.1 (12/14/2023)</b>	
1.	Updated AMI label to 5.32_EagleStreamCrb_0ACOR_099_Beta for BKC WW47 EMR PV candidate.
2.	Update Intel Server Platform Services SPS_E5_6.1.4.5 for Eagle Stream Server.
3.	Update EGS_EGS-R_ACM_1_1_9.
4.	Implement OCP PRSNT setting for AIOM(nvidia connectx-7 ndr200).
5.	Update VROC SATA/sSATA/tSATA/VMD EFI driver to VROC Pre-OS v8.5.0.1096 PC.
6.	Adjust the position of FwCapHdr to the front of FV_MAIN to avoid secure flash and Boot guard sign fail.
7.	Expose the item Page Policy in BIOS setup menu.
8.	Default disable OOB send replace DisplayName feature to avoid that the SUM OOB test fail problem.
9.	Rebuild variable Boot Order according to previous boot if variable Boot0000 is created during OS installation.
10.	Fix the system hang during ipv4 HTTP boot.
11.	Improved compatibility and reliability.
<b>2.1a (02/20/2024)</b>	
1.	Changed IOU setting to x16 for BPN-E3S5-126ESN-1 support.
2.	Expose "Directory Mode Enable" and add X-AMI.
<b>2.2 (12/14/2023)</b>	
1.	Update source base to AMI label 101 (Intel WW05 BKC - MR1).
2.	Update EDK2 NetworkPkg for AMI SA50218 Security Advisory (PixieFai Vulnerability).
3.	Update AMITSE module for AMI SA50230 and SA50216 Security Advisory.
4.	Update CPU Vpp table for supporting BPN-E3S5-126ESN-1.
5.	Improved compatibility and reliability.