

# BIOS Release Notes Form

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<b>Product Name</b>	<b>X12SPW-(T)F</b>
<b>Release Version</b>	<b>1.6</b>
<b>Release Date</b>	<b>08/18/2023</b>
<b>Build Date</b>	<b>08/18/2023</b>
<b>Previous Version</b>	<b>1.5</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 BIOS version to 1.6.</li><li>2. Updated 5.22_WhitleyCrb_0ACMS_ICX_076_BETA (IPU-PV 2023.3) for INTEL-SA-00813 Security Advisory to address CVE-2022-37343(7.2, High), CVE-2022-44611(6.9, Medium), CVE-2022-38083(6.1, Medium), CVE-2022-27879(5.3, Medium) and CVE-2022-43505(4.1, Medium)security issues; and for INTEL-SA-00837 Security Advisory to address CVE-2022-41804(7.2, High) security issue.</li><li>3. Updated BMC/BMC Network Configuration page IPv6 DNS/DNS2 setting.</li><li>4. Changed strings from "Lock mode" to "Lockdown mode".</li><li>5. Updated Intel Server Platform Services for Whitley Server Platforms IPU2023.3 4.4.4.500 for INTEL-SA-00813 Security Advisory to address CVE-2022-37343(7.2, High), CVE-2022-</li></ol>

	<p>44611(6.9, Medium), CVE-2022-38083(6.1, Medium), CVE-2022-27879(5.3, Medium) and CVE-2022-43505(4.1, Medium) security issues; and for INTEL-SA-00837 Security Advisory to address CVE-2022-41804(7.2, High) security issue.</p> <p>6. Updated M87606A6_0D0003A5 microcode for Dx stepping CPU for INTEL-SA-00813 Security Advisory to address CVE-2022-37343(7.2, High), CVE-2022-44611(6.9, Medium), CVE-2022-38083(6.1, Medium), CVE-2022-27879(5.3, Medium) and CVE-2022-43505(4.1, Medium) security issues; and for INTEL-SA-00828 Security Advisory to address CVE-2022-40982(6.5, Medium) security issue; and for INTEL-SA-00836 Security Advisory to address CVE-2023-23908(6.5, Medium) security issue; and for INTEL-SA-00837 Security Advisory to address CVE-2022-41804(7.2, High) security issue.</p>
New features	N/A
Fixes	<ol style="list-style-type: none"> <li>1. Fixed the issue that the SMBIOS Type1 System Family change could not be preserved after clearing CMOS.</li> <li>2. Fixed ENERGY_PERF_BIAS_CFG Mode item changing to default after SUM update BIOS with the "--preserve_setting" command.</li> </ol>

**1.5 (04/19/2023)**

1. Updated BIOS version to 1.5.
2. Updated 5.22\_WhitleyCrb\_0ACMS\_ICX\_075 Intel 2023.2 IPU-PV, please check header for firmware revisions.

**1.4b (01/09/2023)**

1. Updated the BIOS version to 1.4b.
2. Updated 5.22\_WhitleyCrb\_0ACMS\_ICX\_74 Intel BKCWW46 IPU2023.1, please check header for firmware revisions.
3. Updated Intel Server Platform Services for Whitley Server Platforms IPU2023.1 4.4.4.301.

**1.4a (11/01/2022)**

1. Updated the BIOS version to 1.4a.
2. Updated the 5.22\_WhitleyCrb\_0ACMS\_ICX\_73 Intel BKCWW40 PLR3 OOB. Check the header for firmware revisions.
3. Update M87606A6\_0D00037B microcode for Dx/Mx stepping CPU.
4. Updated the VROC SATA/sSATA EFI driver to VROC PreOS v7.8.0.1012 to address Intel Virtual RAID on CPU (VROC): Data Loss Exposure Due to RAID 5 TRIM Support document #737276.
5. Updated the DBX file to fix the Secure Boot Bypass issue.
6. Followed the SMBIOS template sync the chassis type from FRU0 to SMBIOS Type 03.

**1.4 (7/12/2022)**

1. Updated BIOS version to 1.4.
2. Updated 5.22\_WhitleyCrb\_0ACMS\_ICX\_72 Intel BKCWW23 PLR3, please check header for firmware revisions. For INTEL-SA-00657 Security Advisory to address CVE-2022-21233(6.0, Medium) security issue. For INTEL-SA-00686 Security Advisory to address CVE-2021-33060(7.8, High) security issue.
3. Updated VROC SATA/sSATA EFI driver to VROC PreOS v7.7.6.1004 to adress INTEL-TA-00692. CVE-2022-29919(7.8 High), CVE-2022-30338(6.7 Medium), CVE-2022-29508(6.3 Medium), CVE-2022-25976(5.5 Medium) Update VROC SATA/sSATA legacy driver to VROC PreOS v6.3.5.1003 Hot Fix to fix 10TB or higher volume drive issue.
4. Added "CSM Support" setup item into SMCISBForm page.
5. Updated ucode M87606A6\_0D000375 to address issue below. For INTEL-SA-00657 Security Advisory to address CVE-2022-21233(6.0, Medium) security issue. For INTEL-SA-00686 Security Advisory to address CVE-2021-33060(7.8, High) security issue
6. Updated: If chassis type of FRU0 is not 1(other) or 2(unknown), sync it to SMBIOS type 3.
7. Disabled Link Re-train in BIOS to avoid secondary Bus Reset following intel MOW 22WW27 and expose Link Re-train per port in BIOS

**1.2 (2/14/2022)**

1. Removed 1G option from MMCFG base to avoid system hang.
2. Fixed the SMBIOS event log ERROR CODE that is not displaying correctly under BIOS menu issue (EFI error type).

3. *Fixed SpeedStep (P-States) setting change when its default setting is set to Disable, and load BIOS defaults in Setup.*
4. *Rolled back VROC SATA/sSATA EFI driver to VROC PreOS v7.6.0.1012 to fix system hang when VMD is enabled.*
5. *Updated BIOS version to 1.2.*
6. *Updated AMI 5.22\_WhitleyCrb\_OACMS\_ICX\_070\_BETA RC27P52 for BKC 2021\_WW52 (PLR1), and RC27P56 for PLR1 HF.*
7. *Changed string "VMX" to "Intel Virtualization Technology".*

#### **1.1c (11/8/2021)**

1. *Updated BIOS version to 1.1c.*
2. *Updated 5.22\_WhitleyCrb\_OACMS\_ICX\_069 Beta Intel BKCWW39 2021 PV MR7, please check header for firmware revisions.*
3. *Updated Dx/Mx microcode from Intel-Generic-Microcode-20210927\_NDA.*
4. *Updated BIOS ACM to 20210720 (1.0.D) and SINIT ACM 20210827 (1.0.F).*
5. *Updated SPS 4.4.4.58.*
6. *Exposed the "Data Link Feature Exchange" BIOS setting in PCIe SLOT pages.*
7. *Removed the 1G option from MMCFG base to avoid system hang.*
8. *Updated BMC boot status to indicate that the ROM is being flashed at a different memory location.*
9. *Updated SmcOutBand in SmcPKG/Module/SmcOOB to allow the DMI data to be stored when executing "SUM -c LoadDefaultBiosCfg".*

#### **1.1a (3/5/2021)**

1. *Updated BIOS version to 1.1a.*
2. *Updated 5.22\_WhitleyCrb\_OACMS\_ICX\_066 Intel BKCWW24 2021 PV MR4, please check header for firmware revisions.*
3. *Updated Dx/Mx microcode from Intel-Generic-Microcode-20210701\_NDA.*
4. *Updated SATA/sSATA EFI driver to VROC PreOS v7.6.0.1012.*
5. *Added support to riser card RSC-W2R-666G4.*
6. *Disabled EFI iSCSI support.*
7. *Path BMC Redfish Host Interface was renamed as ethX for the case where CDN was disabled under Linux OS.*
8. *Corrected SMBIOS Type41 information.*