

BIOS Release Notes Form

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Product Name	X12DPT-B6
Release Version	1.4 SPS: 4.4.4.202
Build Date	7/12/2022
Previous Version	1.2
Update Category	Recommended
Dependencies	None
Important Notes	None
Enhancements	<ol style="list-style-type: none">1. Updated Intel BKCWW23 PLR3 to address below issue and security update INTEL-SA-00657:CVE-2022-21233(6.0 Medium), INTEL-TA-00613:CVE-2022-0004 (7.3 High), INTEL-TA-00615:CVE-2022-21166 (5.5 Medium), INTEL-TA-00616:CVE-2022-21136 (2.7 Low), INTEL-TA-00617:CVE-2022-21151 (5.3 Medium), INTEL-TA-00601:CVE-2021-33060 (7.8 High).2. Updated SATA/sATA EFI driver to VROC PreOS v7.7.6.1004.3. Added "CSM Support" setup item into SMCISBForm page.4. Fixed SUM cannot parse dynamic pages that only update form when enter bios setup menu.5. Added delay for get VPD data routines, E810 takes more time to retrieve data from VPD.

	<ol style="list-style-type: none"> 6. Fixed issue that keeps system rebooting, and would not stop even after reaching the retry limit. 7. Fixed an issue when using IPMI system boot option command to boot to Legacy PXE or UEFI PXE, the system should scan all LAN ports. 8. Applied a fix to an issue that is showing an incorrect CPU max frequency under Linux O/S. 9. Added/activated features: Link Retrain per port, MCTP for CPU1 slot1 and CPU2 slot2 in BIOS. 10. Added feature enhancement: If chassis type of FRU0 is not 1(other) or 2(unknown), sync it to SMBIOS type 3.
New features	N/A
Fixes	<ol style="list-style-type: none"> 1. Fixed SUM ChangeBiosCfg command cannot update PchSetup variable related BIOS items issue. BIOS settings such as "Configure SATA as" item should be able to be updated by SUM.

1.2 (2/12/2022)

1. Removed 1G option from MMCFG base to avoid system hang.
2. Fixed the SMBIOS event log ERROR CODE not displaying correctly under BIOS menu issue (EFI error type).
3. Added "Preserve_SMBIOS", "Preserve_OA" into FlashFlag when in the condition "NvramDefaultMode".
4. Fixed the setup item "Lockdown Mode", which is always gray-out.
5. Fixed SpeedStep (P-States) setting change when its default setting is set to Disabled and load BIOS defaults in Setup.
6. Rolled back physical slot number settings to 1.1, updated NVMe configurations for different backplane adapter and risers supported. Restore eSPI maximum I/O mode for slave 0 (BMC).
7. Updated AMI 5.22_WhitleyCrb_OACMS_ICX_070 RC27P56 for BKC 2021_WW52 (PLR1 HF).
8. Changed string "VMX" to "Intel Virtualization Technology".
9. Improved AOC-SMG3-2M2-B Marvell sensor reading.

1.1a (10/20/2021)

1. Updated 5.22_WhitleyCrb_OACMS_ICX_069 Beta Intel BKCWW39 2021 PV MR7.
2. Updated Dx/Mx microcode from Intel-Generic-Microcode-20210927_NDA.
3. Updated SATA/sATA EFI driver to VROC PreOS v7.6.0.1012.
4. Fixed failure of SUM Test case 254 SecureEraseDisk test.
5. Added support for SUM upload/delete HTTPS TLS certificate.
6. Changed "Hard Drive Security Frozen" default setting to disabled.
7. Applied workaround for system hang at 68 during cburn power cycle long run.
8. Fixed iPXE GPF when Redfish HI is disabled.
9. Added flag [Preserve BIOS Boot Options Configuration] controlled by BMC/SUM.
10. Modified SPS version strings and removed the "Manufacturer ID" string.
11. Disabled support for EFI iSCSI.
12. Updated SmcOOB module to 1.01.24 to support SUM clean SMBIOS Event log through BiosCfg header flag.
13. Added support for EUI-48 Locally Administered MAC Address for Redfish host interface.
14. Enhanced DMI type 42 for supporting EUI-48 Locally Administered MAC Address.
15. Updated PMaxOffset.
16. Fixed inability of NumLock item to modify by SmcPostHotKey.sd.
17. Fixed failure of SUM TC 221 when installing multiple NICs on system.
18. Fixed inability to preserve SGX settings after updating BIOS.
19. Fixed problem of the system hanging during POST when building BIOS with the token "SMC_SETUP_STYLE" as 0.
20. Fixed malfunction of Patrol Scrub on Dx ICX.
21. Corrected firmware version and vendor on Trusted Computing page.
22. Fixed inability to change COM port resource and failure of item's behavior.
23. Fixed problem of the system continuously rebooting when AOC-A25G-i2SM or AOC-A25G-M2SM is plugged in.
24. Set bits of IPMI CMD 30_A0_15 to clear according to usage of location instead of all bytes.
25. Updated eSPI maximum I/O mode for slave 0 (BMC).

1.1 (5/6/2021)

1. Set default Boot Guard profile to 5.
2. Updated Intel-Generic-Microcode.
3. Updated ASPEED VBIOS and EFI driver to 1.11.03.
4. Updated SATA/ssATA EFI driver to VROC PreOS v7.5.0.1152.
5. Kept value of setup string of Manufacturer and Product according to priority "modification of AmiBcp, FRU1, and then SMBIOS Table".
6. Added code to stop AFU support.
7. Added HCC Mx stepping CPU check for CPU stepping display.
8. Automatically disabled and hid ADDDC with x8 width DIMM.
9. Set "NVMe Firmware Source" to auto-hide when AOC-SMG3-2M2-B is plugged in.
10. Disabled MCTP for M.2 slots to prevent system hang with Micron 2300.
11. Removed 4G limit of Intel LAN memory if boot mode is not legacy.
12. Automatically disabled and grayed out ADDDC, UMA-Base Clustering, and mirror mode and enabled NUMA when SGX is enabled.
13. Enhanced SMCI HDD Security feature.
14. Extended memory DIMM serial number information (Samsung, Micron, Hynix).
15. Enhanced SMC DCPMM feature.
16. Set all OPRON control items to Legacy when boot mode is set to Dual.
17. Updated CPLD Signature table 101 and tool to 1.30.24 for CPLD Signature.
18. Updated Intel BKCWW17 2021 PV MR1.
19. Hid eADR Support item.
20. Updated SPS 4.4.4.56 PV MR2.
21. Corrected display of IPv4 address source status after updating BIOS.
22. Fixed missing SMBIOS type 17 BPS information when plugged in at P1-DIMMC2 or P2-DIMMC2.
23. Corrected location of RT UECC log.
24. Fixed failure of RT UECC to be mapped out.
25. Corrected display of IPv6 when IPv6 status is not active.
26. Filtered Dynamic HDD Security pages to patch failure of SUM ChangeBiosCfg.
27. Fixed problem of T-states always showing 15 levels even when T-state is disabled.
28. Fixed problem with a CPU exception.
29. Fixed failure to hide the SmcSecureErase setup page when no HDD devices are plugged in.
30. Corrected display of UEFI OS boot option name in BIOS setup.
31. Fixed failure of Secure Boot Append/Update Keys.
32. Fixed inability to upload all OOB files on the first BMC boot.
33. Corrected memory device number in SMBIOS type 16.
34. Corrected iSCSI Configuration page.
35. Set DIMM size to recalibrate when rank is disabled.
36. Fixed the issue of system hanging after executing sum -c EraseOAKKey or afuefi /OAD.
37. Added workaround for issue of updating BIOS then rebooting causing system CPU exception at 0x79 when TXT is enabled.

1.0a (1/13/2021)

1. Updated WW51.
2. Added support for BIOS uploading/downloading OOB file to/from BMC during POST even if SMCI USB Redfish Host Interface is set to "OFF" in IPMI GUI web.
3. Fixed problem of system hanging at 0xB2 when plugging in the SATA and NVMe device.
4. Added force next boot to UEFI Shell support.
5. Implemented CPU always turbo function.
6. Added support for Linux built-in utility efibootmgr.

7. Filled Onboard LAN1 MAC address into SMBIOS Type 1 UUID field.
8. Set CMOS Battery Low event to log into SMBIOS (POST Error Type 08h).
9. Added support for changing PXE from UEFI (U)/Legacy (L) to L/U through IPMI Boot Flag Command.
10. Enabled OOB file to be uploaded/downloaded to/from BMC even if Network Stack is disabled.
11. Fixed inability of the system to boot into PXE with DVD installed.
12. Enhanced SMCI HDD Security feature.
13. Set PCLS and ADDDC to enabled by default and enabled leaky bucket of about 2.15 minutes.
14. Added Enhance PPR function.
15. Added Auto mode to "NVMe Mode Switch".
16. Added SEL for PPR success.
17. Fixed inability to find "Rear USB Port(s)" for SUM test case 343.
18. Fixed problem of system hanging at postcode "B2" when creating RAID0/1 volume.
19. Fixed problem of system exception occurring at 0x92 or 0xA2 after changing boot order and rebooting.
20. Fixed inability to correctly set some DMI data.
21. Fixed problem of system exception occurring and rebooting when using IPMI force boot to UEFI disk.
22. Fixed problem of system hanging if moving USB KB/MS when entering Windows.
23. Fixed malfunction of setup item "Maximum Read Request".
24. Corrected display of IPv6 in Early Video.
25. Fixed problem of "Configuration Address Source" always showing "DHCP" on IPMI IPv6 page.
26. Corrected Memory Correct Error location in BIOS event log for CPU2.
27. Modified IPv6 behavior to remove error message when IPv6 router IP is ::::.
28. Corrected CPU1 memory type 20 handler point to CPU2 Memory Array Mapped Address structure.
29. Corrected display of IPv6 Status after updating BIOS.

1.0 (8/26/2020)

Initial release.