

BIOS Release Notes Form

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Product Name	X12DPG-QT6
Release Version	2.0
Release Date	02/01/2024
Build Date	03/11/2024
Previous Version	1.4b
Update Category	Critical
Dependencies	None
Important Notes	None
Enhancements	1.[Enhancements] Update 5.22_WhitleyCrb_0ACMS_ICX_075 Intel 2023.2 IPU-PV. 2.[Enhancements] Improve VROC key detection. 3.[Enhancements] Boot option is not created for single hard drive under RAID mode. 4.[Enhancements] Update 5.22_WhitleyCrb_0ACMS_ICX_076_BETA (IPU-PV 2023.3). 5.[Enhancements] Update D/M stepping processor microcode to IPU 2023.4 out of band for Intel-TA-00950. 6.[Enhancements] Update base to 5.22_WhitleyCrb_0ACMS_ICX_077 (2024.1 IPU-PV). 7.[Enhancements] Update secure boot KEK and DB. 8.[Enhancements] Expose "Pre-boot DMA Protection". 9.[Enhancements] Apply SA50216 supplement.

	10.[Enhancements] Rebuild variable BootOrder according to previous boot if variable Boot0000 is created during OS installation. 11.[Enhancements] Apply SA50218 supplement (Vulnerability In EDK2 NetworkPkg / PixieFail VU#132380). 12.[Enhancements] Apply SA50230 supplement (Image Parser Corruption Vulnerability).
New features	N/A
Fixes	1.[Fixes] Fix system halts after configure MMCFG Base to 1.5G and 1.75G. 2.[Fixes] Fix ECO test case 2020 fails. 3.[Fixes] Resolve TPM provision can not be done by SUM. 4.[Fixes] Resolve system halts after install Intel Optane persistent memory. 5.[Fixes] Resolve KMS configuration can not be preserved after load BIOS default.

Release Notes from Previous Release(s)

1.4b(02/24/2023)

- 1.[Enhancements] Update 5.22_WhitleyCrb_OACMS_ICX_74 (Intel BKC WW46 IPU2023.1).
- 2.[Enhancements] Update Intel Server Platform Services for Whitley Server Platforms IPU2023.1 4.4.4.301.
- 3.[Fixes] Fix memory error is not reported in SMBIOS event log.
- 4.[Fixes] Enable all boot variable written back by Windows for test case 2071, 3056 and 4057.
- 5.[Fixes] Resolve abnormal SOL resolution.

1.4a(12/06/2022)

- 1.[Enhancements] Update 5.22_WhitleyCrb_OACMS_ICX_73 Intel BKCWW40 PLR3 OOB, please check header for firmware revisions.
- 2.[Enhancements] Update VROC SATA/sATA 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
- 3.[Enhancements] Moved AF w/a code.
- 4.[Enhancements] Follow CPLD spec to set BIOS_EXIT_UBOOT and BIOS_BOOT_OK for VRM I2C protect
- 5.[Enhancements] Follow the SMBIOS template sync the chassis type from FRU0 to SMBIOS Type 03.
- 6.[Fixes] Fix SOL resolution abnormal.
- 7.[Fixes] Fix SOL resolution abnormal.

1.4 (07/12/2022)

- 1.[Enhancements] Update 5.22_WhitleyCrb_OACMS_ICX_72 Intel BKCWW23 PLR3, please check header for firmware revisions.
- 2.[Enhancements] Update 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)
- 3.[Enhancements] Update 5.22_WhitleyCrb_OACMS_ICX_71 Intel BKCWW18 2022 PLR2, please check header for firmware revisions.
- 4.[Enhancements] Update BPS uEFI driver to 02.00.00.3886 for IPU2022.2.
- 5.[Enhancements] Add "CSM Support" setup item into SMCISBForm page.
- 6.[Enhancements] Filter Dynamic TCG Security Pages to patch SUM ChangeBiosCfg failed problem
- 7.[Enhancements] Update VROC SATA/sSATA legacy driver to VROC PreOS v6.3.5.1003 Hot Fix to fix 10TB or higher volume drive issue.
- 8.[Enhancements] If chassis type of FRU0 is not 1(other) or 2(unknown), sync it to SMBIOS type 3.

1.2 (02/14/2022)

- 1.[Enhancements] Update AMI 5.22_WhitleyCrb_OACMS_ICX_070_BETA RC27P52 for BKC 2021_WW52 (PLR1)
- 2.[Enhancements]Change string "VMX" to "Intel Virtualization Technology".
- 3.[Fixes] Remove 1G option from MMCFG base to avoid system hang.
- 4.[Fixes] Fixed the SMBIOS event log ERROR CODE not display correctly under BIOS menu issue (EFI error type).
- 5.[Fixes] Correct "PCIe ASPM Support (Global)"" default value to disable.
- 6.[Fixes]Rollback VROC SATA/sSATA EFI driver to VROC PreOS v7.6.0.1012 to fix system hang when VMD enable.

1.1 (04/09/2021)

- 1.[Enhancements] Updated BIOS ACM 1.0.9, SINIT ACM 1.0.9
- 2.[Enhancements] Updated SPS 4.4.4.53.
- 3.[Enhancements] Update SATA/sSATA EFI driver to VROC PreOS v7.5.0.1152.
- 4.[Enhancements] The system cannot boot into PXE with DVD installed.
- 5.[Enhancements] Keep setup string of BiosVersion, BiosDate, Manufacturer and Product as default value including modification of AmiBcp.
- 6.[Enhancements] Add code to stop AFU support.
- 7.[Enhancements] Default enable BootGuard function.
- 8.[Enhancements] Extend memory DIMM serial number information.(Samsung, Micron, Hynix)
- 9.[Enhancements] Enhance Smc Dcpmm feature.
- 10.[Enhancements] Automatically disable and grayed out ADDDC, UMA-Base Clustering, mirror mode and enable NUMA when SGX enabled.
- 11.[Enhancements] Remove intel lan memory 4G limit if boot mode is not legacy.
- 12.[Enhancements] Set all oprom control items to Legacy when boot mode set to Dual.
- 13.[Enhancements] Update for 20P95_LB62_PreDrop_V1 for BKC WW15 (20P95)
- 14.[Enhancements] Update Intel-Generic-Microcode-20210226a_NDA and Intel AE (updated)
- 15.[Fixes] Fix "Configuration Address Source" always show "DHCP" in IPMI IPv6 page.
- 16.[Fixes] Fix Memory correct error location is wrong in BIOS event log for CPU2.
- 17.[Fixes] Modify Ipv6 behavior, remove error message when Ipv6 router IP is :::::
- 18.[Fixes] Correct CPU1 memory type 20 handler point to CPU2 Memory Array Mapped Address structure
- 19.[Fixes]Fix IPv6 Status show incorrect after updating BIOS.
- 20.[Fixes] Fixed IPv4 address source status show incorrect after updating BIOS issue.
- 21.[Fixes] Fixed the HDD security menu will not show when connect more than 6 HDD on system.
- 22.[Fixes] Fix IPV6 disable in the IPMI GUI but BIOS initialize will appear IPV6 address..

- 23.*[Fixes] Filter Dynamic HDD Security Pages to patch SUM ChangeBiosCfg failed problem.*
- 24.*[Fixes] Fixed UEFI OS boot option name shows incorrectly in BIOS setup.*
- 25.*[Fixes] Fix T-states always show 15 levels even T-state is disabled.*

1.0 (12/02/2020)

- 1. *First Release.*