# BIOS Release Notes Form

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| **Product Name** | **X12DPG-QT6** |
| **Release Version** | **1.4a** |
| **Release Date** | **12/06/2022** |
| **Build Date** | **12/06/2022** |
| **Previous Version** | **1.4** |
| **Update Category** | **Critical** |
| **Dependencies** | **None** |
| **Important Notes** | **None** |
| **Enhancements** | **1.[Enhancements] Update 5.22_WhitleyCrb_0ACMS_ICX_73 Intel BKCWW40 PLR3 OOB, please check header for firmware revisions.**<br>**2.[Enhancements] Update 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**<br>**3.[Enhancements] Moved AF w/a code.**<br>**4.[Enhancements]Follow CPLD spec to set BIOS_EXIT_UBOOT and BIOS_BOOT_OK for VRM I2C protect**<br>**5.[Enhancements] Follow the SMBIOS template sync the chassis type from FRU0 to SMBIOS Type 03.** |
| **New features** | **N/A** |
| **Fixes** | **1.[Fixes]Fix SOL resolution abnormal.** |

**1.4 (07/12/2022)**

*1.[Enhancements] Update 5.22_WhitleyCrb_0ACMS_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_0ACMS_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_0ACMS_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.*