IPMI Firmware / BIOS Release Notes Form

Product Name	**X11DPG-QT**
Release Version	**3.0a for X11DPG8.C21_32MB and X11DPG8.C21**
Release Date	**12/21/2018**
Previous Version	**2.1**
Update Category	**Critical**
Dependencies	**None**
Important Notes	**None**
Enhancements	**1. Updated 5.14_PurleyCrb_0ACLA031_BETA for Purley Skylake platform, BKC 2018 WW36.** **2. Added support for Monitor Mwait feature.** **3. Fixed inability of VMD status to load default if loading default by AFU.** **4. Added support for SMC HttpBoot.** **5. Fine tuned function code of "Install Windows 7 USB Support" setup item.** **6. Removed support for S3 due to SPS ME limitation.** **7. Removed support for Thunderbolt.** **8. Skipped downgrade of BIOS to 2.x when using next generation CPU.** **9. Added support for NVMe auto detection with SMC NVMe add-on card on slot 2/4/6/8/9/10.**

	10. Added support for Purley Refresh platform. 11. Updated SATA RAID OPROM/EFI driver to RSTe PreOS v6.0.0.1024. 12. Set PCIe correctable and uncorrectable (non-fatal) error report to disabled by default. 13. Set RFC4122 encoding to only be enabled for build time produced by IPMI 1.29 or newer. 14. Updated CPU microcode SRV_P_262 for Skylake-SP H0/M0/U0 CPUs. 15. Disabled unused SPS ME "CUPS IIO" and "Volumetric Airflow" sensor.
New features	N/A
Fixes	1. Fixed problem of BIOS always retrying boot when Re-Try Boot is Disabled. 2. Fixed malfunction of support for LEGACY to EFI. 3. Fixed failure of always turbo in new Linux kernel 7.x. 4. Fixed problem of system hanging and falling into a dead loop when setting enabled CPU core number to 1 in always turbo mode. 5. Fixed problem of CPU core numbers and maximum turbo ratio not matching in always turbo mode. 6. Fixed problem of setup item "Quiet Boot" staying enabled after flashing BIOS with "Quiet Boot" disabled.

2.1 (7/31/2018)

1. Updated CPU microcode to address 'Spectre' derivatives (CVE-2018-3639 & CVE-2018-3640) security issue.

2. Changed BIOS revision to 2.1.

3. Added new setup items "SLOT1 x8 & SLOT2 x8" and "SLOT5 x8 & SLOT6 x8" in IOU0.

4. Updated Purley RC 154.R13, SPS 4.0.04.340 and ACM 1.3.7, SINIT ACM 1.3.4.

5. Updated SATA RAID OPROM/EFI driver to RSTe PreOS v5.4.0.1039.

6. Added support for UEFI mode PXE boot of F12 hot key Net boot.

7. Added BIOS/ME downgrade check for SPS 4.0.4.340 and later versions.

8. Added one event log to record that the event log is full.

9. Corrected help message for TPH BIOS setup items.

10. Displayed PPR setup item.

11. Fixed problem of SUM GetSataInfo showing incorrect "Configuration Type" when setting "Configure sSATA as" to "AHCI" or "RAID" on sSATA controller.

12. Fixed problem of Ctrl + Alt + Del causing system to hang after flashing BIOS.

13. Fixed problem of system hanging when installing Linux OS after COM1 & COM2 IO/IRQ exchange.

14. Fixed failure of WDT function.

15. Added workaround for low GPU P2P bandwidth.

16. Changed Slot Data Bus Width for slot 2 and slot 6.