BIOS Release Notes

TITLE

SUBJECT: 6PXSV1 BIOS Release Notes version R15

About This Release

Build Date: 2018/3/12
BIOS Checksum: 0x28974D81 (4M), 0x5279CAC4 (8M)
Release Owner: Yilun

BIOS Components/Contents

Processor stepping(s) supported: supports Intel® SandyBridge-EP processors
System hardware configurations supported: GA-6PXSV1-RH Rev: 0.1/0.2/1.0
Microcode updates versions:

CPUID	Family	Microcode Update ID
$(Intel	SandyBridge-EP Processor C-0	ServW
206D5	SandyBridge-EP Processor C-1 and M-0	00000513
206D6	SandyBridge-EN -EP Processor C-2 and M-1	0000061C
206D7	Ivy Bridge-EP -EX -EN Processor B-1, B-2, L-1, L-2, R-0, and R-1	00000713
306E2	Ivy Bridge-EP -EX Processor B-3	0000020D
306E3	Ivy Bridge -EX -EP -EN Processor C-0, C-1, S-0, S-1, M-0, M-1	00000308
306E4	Ivy Bridge -EX Processor D-0	0000042C
306E6		00000600

IPMI support:
AMI Kernel version: Gbt_Kernel_F03zd
Intel CSI/MRC Package version: 2.00.03
SPI Descriptor version: 02.01.07.129.2_05
OPROM version :

OPROM	Version
ASPEED VGA	0.97
INTEL 82579	1.3.76
INTEL SAS	3.7

Installation Notes

IMPORTANT NOTES:

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1. Please extract the 6PXSV1_R15.zip to a bootable diskette that can boot to real DOS
2. Please don't load HIMEM.SYS or any other memory management SW in the diskette

BIOS UPDATE INSTRUCTIONS FOR DOS:
1. Insert USB flash drive to system for BIOS upgrade
2. Power on system and boot to USB flash
3. Execute FB.BAT for bios update
   a. Execute "FB.BAT 3" only Flash BIOS Command line
   b. Execute "FB.BAT 2" need move ME flash jump(AC off) to flash ME firmware
4. After bios flash finish, system will reboot automatically, please do not remove USB flash
5. System will restore DMI data after boot to DOS again, please wait the message below, "All BIOS flash steps are done! Please AC OFF and AC ON again. Thanks!"
6. Done

BIOS UPDATE INSTRUCTIONS FOR Windows:
1. Insert bios update USB flash drive.
2. Use Command Shell
3. Execute \Tool\Win32\f.cmd or \Tool\Win64\f.cmd for bios update
4. After bios flash finish, Please reboot windows system

BIOS UPDATE INSTRUCTIONS FOR LINUX:
1. Insert bios update USB flash drive.
2. Use Command Shell
3. Execute \Tool\LNX\afulnx32\f.sh or \Tool\LNX\afulnx64\f.sh for bios update
4. After bios flash finish, Please reboot windows system

BIOS Version CHECK INSTRUCTIONS:
1. Power on system and press F2 during POST
2. The bios version shows on the first main page

Known Issues/Workarounds

Issues fixed in this version

R15
    1. Update microcode for Speculative Execution and Indirect Branch Prediction Side Channel Analysis Method.

R14
    1. modified smm for io.

R13
    1. Fixed issue that system hang on 0xB0 inserts two CPU.

R12
    1. Modified SCU port routing.

R10

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    1. Fixed issue that Gateway ip can't setting 0.(BMC M/B)
    2. Changed Enforce DIMM default to Enforce DIS for some Memmory marge.

R09
    1. Fixed issue that system hang on 0xB1 sometimes.
    2. Changed Enforce DIMM default to Enforce EN for some Memmory marge.

R08
    1. Fixed issue that insert non-ECC UDIMM can't booting up.
    2. Fixed issue that system hang on 0x2F post code when inset sandy Bridge CPU.

R07
    1. Improve CPU compatible ability.

R06
    1. Fixed issue that MRC incorrect.
    2. Changed Oprom shadow policy.

R05
    1. Fixed issue that system can't booting when memory error occurs.

R04
    1. Fixed issue that Slot 2 can't wake up.
    2. Fixed issue that System hang on windows 2008 when SCU raid used.

R03
    1. update kernel

R02
    1. Fixed issue that AC loss fail.
    2. Changed slot 2 width to x8x8.
    3. Fixed issue that LSI can't flash using dos utility.
    4. Fixed issue that Dynamic item can't working.

R02
    1. Fixed issue that system hang on when select dymanic pci base
    2. Modified BMC ip setting timing.
    3. Sets Resolution to 100x31.
    4. Fixed AC Loss issue.
    5. Fixed issue that LSI F/W updated utility can't worked.

R01
    1. Mrc Update to 20.2

T04
    1. Add SATA IDE mode item on BIOS Setup.

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T03

    1. Fix PCH PCIe Slot OPROM cannot be execute.

T02

    1. Ivy Bridge release.

T01

    1. Ivy Bridge Support.

T01

    1. Support Ivy Bridge CPU.
    2. SCU uEFI oprom disabled.
    3. SATA uEFI oprom disabled.

F18

    1. Update SCU oprom to 3.7

F17

    1. Added feature that system Beep when memory uninstall.