

# BIOS Release Notes

## TITLE

**SUBJECT:** 6PXS3 BIOS Release Notes version [R20](#)

### About This Release

**Build Date:** [2018/6/26](#)

**BIOS Checksum:** [0x2354140D](#) (4M), [0x4D2ED87B](#) (8M)

**Release Owner:** Yilun

### BIOS Components/Contents

**Processor stepping(s) supported:** supports Intel® SandyBridge-EP processors

**System hardware configurations supported:** GA-6PXS3-RH Rev: [0.1/0.2/1.0](#)

**Microcode updates versions:**

CPUID	Family	Microcode Update ID
<a href="#">206D5</a>	<a href="#">SandyBridge-EP Processor C-0</a>	<a href="#">00000513</a>
<a href="#">206D6</a>	<a href="#">SandyBridge-EP Processor C-1 and M-0</a>	<a href="#">0000061D</a>
<a href="#">206D7</a>	<a href="#">SandyBridge-EP Processor C-2 and M-1</a>	<a href="#">00000714</a>
<a href="#">306E2</a>	<a href="#">Ivy Bridge-EP -EX -EN Processor B-1, B-2, L-1, L-2, R-0, and R-1</a>	<a href="#">0000020D</a>
<a href="#">306E3</a>	<a href="#">Ivy Bridge-EP -EX Processor B-3</a>	<a href="#">00000308</a>
<a href="#">306E4</a>	<a href="#">Ivy Bridge -EX -EP -EN Processor C-0, C-1, S-0, S-1, M-0, M-1</a>	<a href="#">0000042D</a>
<a href="#">306E6</a>	<a href="#">Ivy Bridge -EX Processor D-0</a>	<a href="#">00000600</a>

**IPMI support:**

**AMI Kernel version:** [Gbt\\_Kernel\\_F03zg](#)

**Intel CSI/MRC Package version:** [2.00.03](#)

**SPI Descriptor version:** [02.01.07.129.2\\_05](#)

**OPROM version :**

OPROM	Version
ASPEED VGA	<a href="#">0.97</a>
INTEL 82574	<a href="#">1.3.76</a>
INTEL SAS	<a href="#">3.7</a>

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the 6PXS3\_[R20](#).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 Release Notes

### 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\fb.cmd or \Tool\Win64\fb.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\fb.sh or \Tool\LNx\afulnx64\fb.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

R20

1. Intel Microcode update for security issue.

R19

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

R18

1. Fixed issue that system hang on.

R17

1. Modified IO during SMM.

R16

1. MMIO size support 512G item.

## BIOS Release Notes

R14

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

1. Modified routing setting.
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R12

1. Modified SCU port routing.
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R11

1. Fixed issue that Gateway ip can't setting 0.(BMC M/B)
  2. Changed Enforce DIMM default to Enforce DIS for some Memory marge.
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R10

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

1. Fixed issue that insert non-ECC UDIMM can't booting up.
  2. Fixed issue that system hang on 0x2F post code when inserts sandy Bridge CPU.
  3. Fixed issue that BMC IP shows 48.48.48.48 when changed BMC source first time.
  4. Added feature that BMC IP syn on Setup Menu.
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R08

1. Fixed issue that Audio not work
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R07

1. Fixed issue that BIOS recovery mode can't working.
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R06

1. Fixed issue that MRC incorrect.
  2. Changed Oprom shadow policy.
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R05

1. System beep sounds when memory hadn't install.
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R04

1. Fixed issue that system can't booting when memory error occurs.
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R03

1. Fixed issue that AC Loss function fail.
2. Fixed issue that system hang on when select dynamic pci base
3. Modified BMC ip setting timing.
4. Update Microcode
5. Display F10 key when logo disabled.

## BIOS Release Notes

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R02

- 1.
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R01

1. Mrc Update to 20.2
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T10

1. Add SATA IDE mode item on BIOS Setup.
  2. Fix PCH PCIe Slot OPROM cannot be execute.
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T09

1. update Ivy Kernel
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T07

1. update IVY code
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T06

1. Update MRC version to 18.
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T05

1. SMBIOS modified
  2. Update Kernel to 22.
  3. UEFI PXE support.
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T04

1. Ivy Bridge support
2. ME update to 02.01.07.129.2\_05