

# BIOS Release Notes

## TITLE

**SUBJECT:** 7PCSLN BIOS Release Notes version [R16](#)

### About This Release

**Build Date:** [2018/3/12](#)

**BIOS Checksum:** [0x24523EF7](#) (4M), [0x4E2D031E](#) (8M)

**Release Owner:** Yilun

### BIOS Components/Contents

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

**System hardware configurations supported:** GA-7PCSLN-RH Rev: [0.1/0.2/1.0](#)

**Microcode updates versions:**

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

**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
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### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the 7PCSLN\_ [R16](#).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:

## BIOS Release Notes

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

R16

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

R15

1. Fixed Com port couldn't working.

R14

1. Fixed issue that system hang on.

R13

1. Fixed issue that AST1300 HWM couldn't working.

R12

1. Fixed issue that PCI device couldn't working.

R11

## BIOS Release Notes

1. Modify memory information on setup menu.

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R09

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

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R08

1. Fixed issue that system hang on sometimes during post.

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R07

1. Re-Driver modified.

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R06

1. Modified SCU port routing.

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R05

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.

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R04

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

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R03

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.(BMC)
4. Added feature that BMC IP syn on Setup Menu.(BMC)

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R02

1. Fixed issue that system hang on 0xb0 when inserts two sandy bridge cpu.

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T01

1. Updated for Romley Refresh

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F05

1. Add Fan Control Policy item.

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F04

1. HWM support.

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F03

1. Update SCU oprom to 3.7

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F02

## **BIOS Release Notes**

### **1. SATA IDE Mode support**

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