

# BIOS Release Notes

## TITLE

**SUBJECT:** 7PPSH BIOS Release Notes version [R12](#)

### About This Release

**Build Date:** [2014/10/3](#)

**BIOS Checksum:** [0x26B33CD0](#) (4M), [0x507DC162](#) (8M)

**Release Owner:** Tim.Chin

### BIOS Components/Contents

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

**System hardware configurations supported:** GA-7PPSH-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="#">00000619</a>
<a href="#">206D7</a>	<a href="#">SandyBridge-EN -EP Processor C-2 and M-1</a>	<a href="#">00000710</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="#">00000416</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\\_F03f\\_03](#)

**Intel CSI/MRC Package version:** [02.00.00.02](#)

**SPI Descriptor version:** [02.01.07.129.2\\_BXCX\\_PBGHC\\_NM\\_V02](#)

**OPROM version :**

OPROM	Version
<b>ASPEED VGA</b>	<b>0.97</b>
<b>Intel i350</b>	<b>1.3.76</b>
<b>Intel x540</b>	<b>2.1.96</b>
<b>LSI 2008</b>	<b>07.23.01.00</b>

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the 7PPSH\_[R12](#).zip to a bootable diskette that can boot to real DOS

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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\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

R12

- 1.Fixed ACback function.
- 2.Add auto RBU function.

R11

- 1.Fixed used 1.35v dimm, BIOS will send 1.5v to BMC.
- 2.Fixed PEI debug mode cannot use.

R10

- 1.Fixed used Sandy CPU run DC on off stress will hang on 0xb0.

R09

1. Fixed PVDDQ voltage detection issue.

R08

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1. Set Enforce DIMM to Enforce EN.
  2. Disable ECC Support item for temporarily fix two E5-2650 CPU hang up at 0xB0.
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### R07

- 1.The IPMI SOL function fail.
- 2.one of system fail on multi bit error test.
- 3.UEFI BIOS Utility 「ACPI XSDT Address Dump」 and 「ACPI RSDT Address

Dump」 show fail.

- 4.BIOS COM Port Can't Enable.
  - 5.Hide SAS item.(Only for 7PTSV/7PTSH)
  - 6.Fixed Fan speed control board display.
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### R06

1. Add iPXE and PXE OPROM shadow select item.
  2. Fixed AC Lose function fail.
  3. Fixed Post screen product name error.
  4. Fixed SCU HDD can't be detect.
  5. Add LSI onboard Raid disable item.
  6. Add PIC F/W version display.
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### R05

1. Fixed IOH PCI root port 0,3,0 routing fail.
  2. SMBIOS type1 information of "Family" is not correct.
  3. Set dual SNB CPU sometimes can't power on.
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### R04

1. Add BMC MAC display function.
  2. Adjust Lan2 OPROM default to enabled.
  3. Fixed When first boot, used bad memory will occur system reboot.
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### R03

1. Fixed IVY BIOS can't let RMC get BMC/LAN1/LAN2 MAC.
  2. Fixed There are some nodes do reset loop when update R02 from F11.
  3. Fixed When ECC has been trigger, BIOS will disable incorrect the wrong channel.
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### R02

1. Fixed when set Onboard LAN Controller Disable, Device management still show LAN device.
  2. Fixed when execute reboot, system will not response.
  3. Fixed onboard intel SW raid on system reboot issue
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### R01

1. Update to IVY Bridge code base.
2. Add RBU function.
3. Fixed AC Back: Power on, Last status function test fail.
4. Add Lan MAC display function in setup menu.

## **BIOS Release Notes**