

# BIOS Release Notes

## TITLE

**SUBJECT:** 6LASL BIOS Release Notes version [R05](#)

### About This Release

**Build Date:** [2018/3/13](#)  
**BIOS Checksum:** [0x45D09DA9](#) (8M), [0xAE4ADC28](#) (16M)  
**Release Owner:** ian.liu

### BIOS Components/Contents

**Processor stepping(s) supported:** supports Intel® Haswell Refresh processors  
**System hardware configurations supported:** GA-6LASL-RH Rev: [0.1/0.2/1.0](#)  
**Microcode updates versions:**

CPUID	Family	Microcode Update ID
<a href="#">306C1</a>	<a href="#">Haswell Processor A-0</a>	<a href="#">FFFF0013</a>
<a href="#">306C2</a>	<a href="#">Haswell Processor B-0</a>	<a href="#">FFFF0006</a>
<a href="#">306C3</a>	<a href="#">Haswell C-0</a>	<a href="#">00000024</a>
<a href="#">40671</a>	<a href="#">Broadwell-H Processor E-0</a>	<a href="#">0000001D</a>

**IPMI support:**

**AMI Kernel version:** [Gbt\\_Kernel\\_E14\\_09](#)

**Intel CSI/MRC Package version:** [2.5.0.0](#)

**SPI Descriptor version:** [SPS\\_EN\\_03.00.07.013.0\\_Alpha-D-R-BDW\\_LPT\\_REL](#)

**OPROM version :**

OPROM	Version
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### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the 6LASL\_[R05](#).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!"

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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

R05

1. Update microcode (M32306C3\_0000001C.PDB -> M32306C3\_00000024.PDB)  
Update microcode (M2240671\_FFFF0003.PDB -> M2240671\_0000001D.PDB)
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R04

1. Fix force USB boot issue
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R03

1. Update Kernel and Intel RC to 2.5.0.0.
  2. Update SPS FW to "SPS\_EN\_03.00.07.013.0\_Alpha-D-R-BDW\_LPT\_REL".
  3. Fixd the issue about AC loss.
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R02

1. Add setup menu item to control onboard VGA
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R01

1. Update ME FW to SPS\_EN\_03.00.05.128.0\_PV-D\_R\_LPT.
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F02

1. Fine-tune USB30 settings.
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F01

1. Add an item "Oboard Lan1 I/O ROM Option" in the setup menu to select "iSCSI" or "PXE" ROM.
2. Correct information of PCIE slots in SMBIOS.

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3. Correct the setup item "Primary Display".
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D06

1. [0015944], Fixed the issue "Ceaseless ECC SMI after POST".
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D05

1. Modify the hardware monitor.
  2. SYS\_Fan4 tachometer and item Support.
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D04

1. [0015758], Fixed the issue "The user cannot press power button to trigger OS sleep or shutdown".
  2. [0015757], Fixed the issue "PCI-E Option ROM function test fail , BIOS PCI-E Option ROM not match M/B print label".
  3. Correct SMBIOS information.
  4. Update CPU microcode.
  5. Fine-tune OpROM shadow behavior.
  6. Enable CLTM function.
  7. Support. Fan4 tachometer and item.
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D03

1. Update setup menu module for E11b kernel code
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D02

1. Modify device routing table
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D01

1. Add CLTM support to RC.
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