

# BIOS Release Notes

## TITLE

**SUBJECT:** MX31-BS0 BIOS Release Notes version [R10](#)

**System:** [R121-X30-SI](#)

### About This Release

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

**BIOS Checksum:** [0x60B6E653](#) (8M), [0xCD9BD501](#) (16M)

**Release Owner:** John.Lin

### BIOS Components/Contents

**Processor stepping(s) supported:** supports Intel® Skylake/ Kabylake processors

**System hardware configurations supported:** GA-MX31-BS0 Rev: [0.1/0.2/1.0](#)

**Microcode updates versions:**

CPUID	Family	Microcode Update ID
<a href="#">906E9</a>	<a href="#">KabyLake-S Processor B-0</a>	<a href="#">0000008E</a>
<a href="#">506E3</a>	<a href="#">SkyLake Processor R-0, S-0</a>	<a href="#">000000C6</a>

**IPMI support:**

**AMI Kernel version:** [Gbt\\_Kernel\\_020\\_013](#)

**Intel CSI/MRC Package version:** [4.1.0.8](#)

**SPI Descriptor version:** [04.01.04.054.0\\_01](#)

**OPROM version :**

OPROM	Version
INTEL RAID	RSTe 4.5.0.1012

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MX31-BS0\_[R10](#).zip to a bootable diskette that use FAT/FAT32 format

#### BIOS UPDATE INSTRUCTIONS FOR EFI Shell:

1. Move ME\_UPDATE flash jump(AC off) to Pin 2-3
2. Insert USB flash drive to system for BIOS upgrade
3. Power on system and boot USB flash to UEFI Shell
4. Execute "\SPI\_UPD\spsFPT.nsh" on UEFI Shell mode  
"All BIOS flash steps are done! set the ME\_UPDATE flash jumper(AC off) back to the default position. Thanks!"
5. if need restore SMBIOS information, Please System Power On after, Enter " \SPI\_UPD\AMIDEEFIx64.efi config.dms" restore.
6. Done

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### BIOS UPDATE INSTRUCTIONS FOR Windows:

1. Insert bios update USB flash drive.
2. Use Command Shell
3. Execute \Tool\Win32\uf.cmd or \Tool\Win64\uf.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\uf.sh or \Tool\LNx\afulnx64\uf.sh for bios update
4. After bios flash finish, Please reboot windows system

### BIOS Version CHECK INSTRUCTIONS:

1. Power on system and press Del during POST
2. The bios version shows on the first main page

## Known Issues/Workarounds

## Issues fixed in this version

R10

1. update intel DCI policy security

R09

1. update microcode for CPU Security

R08

1. Update Microcode for solve the CPU Security

R07

1. Update Microcode for solve the Security problem.

R06

1. fix new kernel boot legacy mode usb can't work

R05

1. update mrc
2. update microcode
3. update sps me

R04

1. update ME firmware

R03

1. Update Microcode.

## BIOS Release Notes

R02

1. fix not show bad time string issue
- 

R01

1. update MRC to support kabylake CPU
- 

T12

1. fix memory dimm sensel fail on EFI shell mode
- 

T11

1. fix 2400MB/s DIMM hung up post code 0x55
- 

T10

1. update MRC and Microcode
- 

T09

1. update kabylake CPU Microcode
- 

T08

1. fix change UEFI driver lose LAN wol function
- 

T07

1. modify USB map
- 

T06

1. fix InfoReport module issue on SATA
  2. fix S4 resume skip hot key work
- 

T05

1. support GBIA Rom Hole Tools for OA2.0
- 

T04

1. update ME to 4.01.03.019
- 

T03

1. update kernel support kabylake B0 step
- 

T02

1. fix some M.2 devices not work
- 

F10

1. fix some M.2 devices not work
- 

T01

1. update Greenlow Refresh to 3.8.0.3
-

## BIOS Release Notes

F09

1. fix CPU PCIE EQ Phase 2 fail
  2. fix smbios type 17 issue
- 

F08

1. fix hung up 0x91 issue
- 

F07

1. update AST2400 VGA init function
- 

F06

1. release new MRC
- 

F05

1. update Show BMC IP on post function
- 

F04

1. add Apacer in intel memory type to BMC web
  2. add BMC IP on post message screen
  3. support SR-IOV
- 

F03

1. fix CPU not enter package C6/C7
  2. fix NVME string error
  3. fix group 0x1C not disable root port swap
- 

F02

1. fix device 0x1C group root port swap disable fail
- 

F01

1. first PVT release
- 

D06

1. fix TPM2.0 Bitlocker issue
- 

D05

1. update kernel
- 

D04

1. set SATA signal to 5.6dB
  2. fix WHEA function issue
  3. support BMC IPv6
  4. disable audio
  5. disable S3 function
  6. fix TPM1.2 Bitlocker not work on legacy
-

## BIOS Release Notes

D03

1. enable power button even
  2. change ME to SiEn
  3. fix SSD HDD lose issue
  4. fix ac loss issue
  5. support AMI SCE tool
  6. modify USB2 Electrical Control Register
  7. Fixed issue that HDD index incorrect on BMC Web.
- 

D02

1. update ME to fix S3/S4 hung up OS screen
- 

D01

1. first for DVT
- 

E19

1. update Kernel and ME
- 

E18

1. enable send smbios to BMC
  2. fix power LED blink work on S4/S5 issue
  3. delay Intel RAID UI to 6s
- 

E17

1. update Kernel and ME
  2. fix S3 ME issue
  3. fix on board VGA not change issue
- 

E16

1. disable smbios sends to bmc feature.
- 

E15

1. Update RSTe 4.3
  2. Enabled smbios sends to bmc feature.
- 

E14

1. fix PXE UEFI not work
  2. support case open
  3. update MRC 0.9.0
  4. fix recovery hung up post 0x04
  5. fix afu tool flash bios and ME on redhat 7.1 fail
- 

E13

1. fix PCIE Gen3 issue
  2. Fix no wait BMC ready during AC on
-

## BIOS Release Notes

E12

1. update ME to SPS\_E3\_04.00.03.008
- 

E11

1. Modified VGA routing.
- 

E10

1. update kernel and MRC
  2. fix lanconf test fail
  3. fix random hang on debug code 0x55
  4. fix COM console redirection will see error message
  5. fix can't disabled all Onboard LAN
  6. fix can't disabled Onboard LAN1 optaion ROM
  7. fix NMI button not have hang
  8. support IRSTe
  9. support offboard VGA
- 

E09

1. sync code fix same issue
- 

E08

1. update kernel and ME
  2. add VGA OffBoard function on setup menu
- 

E07

1. modify setup menu
- 

E06

1. fix password Clear issue
  2. modify setup menu
- 

E05

1. update ME to 04.02.012
- 

E04

1. update MRC 0.7.0
- 

E03

1. update ME to 4.00.02.007
  2. enable system LED function
- 

E02

1. support ALC887-VD2
- 

E01

1. first release

## BIOS Release Notes

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