

# BIOS Release Notes

## TITLE

**SUBJECT:** MX11-PC0 BIOS Release Notes version [R09](#)  
**System:** [NA](#)

### About This Release

**Build Date:** [2018/6/26](#)  
**BIOS Checksum:** [0x60BF9D11](#) (8M), [0xCDA48CD6](#) (16M)  
**Release Owner:** John.Lin

### BIOS Components/Contents

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

**System hardware configurations supported:** GA-MX11-PC0 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 MX11-PC0\_[R09](#).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\AMIDEEFI64.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

R09

1. update intel DCI policy security

R08

1. update microcode for CPU Security

R07

1. Update Microcode for solve the CPU Security

R06

1. Update Microcode for solve the Security problem.

R05

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

R04

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

R03

1. update ME firmware

R02

1. Update Microcode.

## BIOS Release Notes

R01

1. update MRC to support kabylake CPU
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T13

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

T12

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

T11

1. update MRC and Microcode
- 

T10

1. update Microcode
- 

T09

1. fix change UEFI driver lose LAN wol function
- 

T08

1. modify USB map
- 

T07

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

T06

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

T05

1. update ME to 4.01.03.019
- 

T04

1. update kernel support kabylake B0 step
- 

T03

1. pitch CPU PCIE redriver card link lose
- 

T02

1. update Greenlow Refresh to 3.8.0.3
- 

F08

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

F07

1. fix hung up 0x91 issue

## BIOS Release Notes

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F06

1. update AST2400 VGA init function
- 

F05

1. release new MRC
- 

F04

1. fix LAN1 mac address lose issue
- 

F03

1. update Show BMC IP on post function
- 

F02

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

F01

1. first PVT release
- 

D07

1. fix TPM2.0 Bitlocker issue
- 

D06

1. fix usb map issue for WHCK
  2. fix WHEA function issue
- 

D05

1. fix disable NB PCIE SSC issue
  2. fix enable above 4G SATA hung up legacy mode 0xB2
  3. fix enable above 4G not flash ME issue
  4. change ME to SiEn
  5. fix SSD HDD lose issue
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D04

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

D03

1. update Kernel and ME
- 

D02

- 1.[0021841] add S5 RTC function for test
- 2.[0021821] update PCIE Perr/Serr
- 3.[0021516] remove ncsi switch item on setup menu
- 4.[0021935] add NVME item on setup menu

## BIOS Release Notes

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D01

1. first release for DVT
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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
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E16

1. update Kernel and ME
  2. fix onboard VGA
- 

E15

1. disable smbios sends to bmc feature.
- 

E14

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

E13

1. Fixed issue that K40 couldn't get it.
- 

E12

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
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E11

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

E10

1. update ME to SPS\_E3\_04.00.03.008
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E09

1. update kernel and MRC
2. fix lanconf test fail
3. fix random hang on debug code 0x55

## BIOS Release Notes

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

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E08

1. sync code fix same issue

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E07

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

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E06

1. fix VGA init issue
2. setting PCH PCIE SPEED to GEN2

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E05

1. modify setup menu

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E04

1. fix password Clear issue
2. modify setup menu

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E03

1. fix onboard VGA work

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E02

1. update kernel to MRC 0.7.1
2. enable gigabyte setup menu

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E01

1. first release for EVT
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