

BIOS Release Notes

TITLE

SUBJECT: MX31-CE0 BIOS Release Notes version [R14](#)
System: [W120-001](#)

About This Release

Build Date: [2019/6/14](#)
BIOS Checksum: [0x5FC2808F](#) (8M), [0xCCA3343A](#) (16M)
Release Owner: ant.wei

BIOS Components/Contents

Processor stepping(s) supported: supports Intel® Skylake/ Kabylake processors
System hardware configurations supported: GA-MX31-CE0 Rev: [0.1/0.2/1.0](#)
Microcode updates versions:

CPUID	Family	Microcode Update ID
906E9	KabyLake-S Processor B-0	000000B4
906E9	KabyLake-X Processor B-0	000000B4
506E3	SkyLake(506E3) R-0, S-0	000000CC

IPMI support:
AMI Kernel version: [Gbt_Kernel_020_018](#)
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-CE0_[R14](#).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.

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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 Del during POST
2. The bios version shows on the first main page

Known Issues/Workarounds

Issues fixed in this version

R14

1. Upgrade ASPEED VBIOS update to v1.09.0
 2. Upgrade microcode for NTEL SA-00233
-

R13

1. update intel DCI policy security
-

R12

1. update microcode for CPU Security
-

R11

1. Update Microcode for solve the CPU Security
-

R10

1. Update Microcode for solve the Security problem.
-

R09

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

R08

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

R07

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1. update ME firmware

R06

1. update GOP support

R05

1. Update Microcode.

R04

1. Bad time message on POST.

R03

1. fix memory dimm sensel fail on EFI shell mode

R02

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

R01

1. first release

T17

1. modify slot 1 oprom location

T16

1. enable NMI button function

T15

1. remove sync MW21-SE1 function

T15

1. remove sync MW21-SE1 function

T14

1. fix change UEFI driver lose LAN wol function

T14

1. fix change UEFI driver lose LAN wol function

T13

1. support USB Wake on S3

T12

- 1. fix memory freq to show MAX on OS
- 2. fix SD card show remove icon on OS

T11

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1. modify USB map

T10

1. fix random S3 hung up

T09

1. fix random S3 hung up

T08

1. fix LAN disable sync error on I219

T07

1. fix S3 resume fail

T06

1. fix EUP fail on S0

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. remove ITE8772 Hardware Monitor on setup menu
- 2. modify pcie slot oprom root location

T01

1. DVT first release
