

# BIOS Release Notes

## TITLE

**SUBJECT:** MW70-3S0 BIOS Release Notes version [R11](#)

**System:** [NA](#)

### About This Release

**Build Date:** [2019/6/13](#)

**BIOS Checksum:** [0x59AA12A4](#) (8M), [0xCFBEA4FE](#) (16M)

**Release Owner:** Richard Huang

### BIOS Components/Contents

**Processor stepping(s) supported:** supports Intel® Haswell-EP/Broadwell-EP processors

**System hardware configurations supported:** MW70-3S0

**Microcode updates versions:**

CPUID	Family	Microcode Update ID
<a href="#">406F0</a>	<a href="#">Broadwell-EP Processor A-0, A-1, L-0</a>	<a href="#">00000014</a>
<a href="#">406F1</a>	<a href="#">Broadwell-EP Processor B-0, M-0, R-0</a>	<a href="#">0B000036</a>
<a href="#">306F0</a>	<a href="#">Haswell-EP Processor A-0</a>	<a href="#">FFFF0017</a>
<a href="#">306F1</a>	<a href="#">Haswell-EP Processor B-0</a>	<a href="#">00000014</a>
<a href="#">306F2</a>	<a href="#">Haswell-EP Processor C-0, C-1, M-0, M-1, R-2</a>	<a href="#">00000043</a>

**IPMI support:**

**AMI Kernel version:** [Gbt\\_Kernel\\_023\\_165](#)

**Intel CSI/MRC Package version:** [3.10](#)

**SPI Descriptor version:** [03.01.03.023.0\\_11](#)

**OPROM version :**

OPROM	Version
INTEL RAID PACKAGE	RSTe 4.5.0.1333
AST2400 VGA	1.09.00
INTEL 1G PXE	1.5.40
INTEL 10G PXE	2.3.08

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MW70-3S0\_[R11](#).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

## BIOS Release Notes

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\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

R11

1. ASPEED VBIOS update to 1.09.0 for CVE-2019-6260.
2. Fix INTEL-SA-00233.

R10

1. update microcode for Security

R09

1. Update microcode for Speculative Execution and Indirect Branch Prediction Side Channel Analysis Method.

R08

1. Fix Intel Unsafe Opcodes exposed in Intel SPI based products issue

R07

1. Fixed issue that CPU report error 0xFF.

R06

## BIOS Release Notes

1. Update SLI key.

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R04

1. M6000 maps to 32 bit when Above 4G Decoding enabled.

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R03

1. update kernel

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R01

1. RC refresh release first

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T08

1. Fixed issue that Fan policy fail.

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T07

1. Update MRC 3.0

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T06

1. fix AST2400 HWM string garbled

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T05

1. fix S3 resume fail

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T04

1. enable S3

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T03

1. Update MRC to 3.00
2. fix PCIE ME setting issue

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T02

1. Update MRC 2.91

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T01

1. Broadwell support.

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F02

1. Fixed issue that EC F/W version incorrect on POST.

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F01

1. Formal release.

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D06

- 1.[0018778 ] Fix the voltage display error in the Aspeed HWM module.

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D05

## BIOS Release Notes

1. Update MRC

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D04

- 1.[0020357 ] Fix HWM module when two Aspeed devices are exist.

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D02

1. Audio support
2. Thunderbolt support.

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D01

1. First release.
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