

# BIOS Release Notes

## TITLE

**SUBJECT:** MD80-TM0 BIOS Release Notes version [R09](#)  
**System:** [NA](#)

### About This Release

**Build Date:** [2019/6/13](#)  
**BIOS Checksum:** [0x598CFB37](#) (8M), [0xCFA18EAD](#) (16M)  
**Release Owner:** Richard Huang

### BIOS Components/Contents

**Processor stepping(s) supported:** supports Intel® Haswell-EP/Broadwell-EP processors  
**System hardware configurations supported:** MD80-TM0  
**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\\_06](#)  
**OPROM version :**

OPROM	Version
INTEL RAID PACKAGE	RSTe 4.5.0.1333

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MD80-TM0\_[R09](#).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

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- 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\fb.cmd or \Tool\Win64\fb.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\fb.sh or \Tool\LNx\afulnx64\fb.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

R09

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

R08

1. update microcode for Security

R07

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

R06

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

R05

1. Fixed issue that CPU report error 0xFF.

R03

1. Update Microcode.
2. Modified Memory RAS function.

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R01

1. RC refresh release first
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T03

1. update MRC
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T02

1. update MRC to 2.95
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F08

1. Update Microcode to 36.
  2. Update sending system information to BMC.
  3. Fix 4Kn HDD can't boot into DOS.
  4. Fix Load Default Utility can't work.
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F08

1. update kernel to fix issue
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T01

1. Grantley Refresh.
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F07

1. Fixed BIOS recovery fail.
  2. Turn off onboard VGA display when display from add-on VGA.
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F06

1. Fixed issue that VGA problem.
  2. Fixed issue that BIOS Recovery fail.
  3. The Nvidia Grid Card is reported POST error on IPMI Event log
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F05

1. Update Kernel
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F04

1. update MRC
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F03

1. NVMe support
  2. PCIe SATA support
  3. SMBIOS to BMC Web
  4. BMC updates BIOS Setup.
  5. BMC IPv6 display full IP address information when DHCP mode.
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F02

1. update kernel

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F01

1. SVID modified.
2. Fix SIO fail message in Linux.

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D06

1. Reading Power from BMC.

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D05

1. fixed x540 disable oprom issue

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D04

- 1.[0018539] modify slot oprom default
- 2.[0018752] modify USB PORT MAPPING

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D03

1. Enabled SVID function.
2. Enabled LAN MAC function.
3. Modified Power LED to GPIO 21.
4. Enabled ECC function.
5. Modified LAN disabled GPIO.
6. Enabled UUID function.

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D02

1. Update Kernel code
2. Update IR rom

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D01

1. First Release
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