

BIOS Release Notes

TITLE

SUBJECT: MH70-HD0 BIOS Release Notes version [R12](#)
System: [H270-F4G](#)

About This Release

Build Date: [2019/6/6](#)
BIOS Checksum: [0x597D25E7](#) (8M), [0xCF91B65E](#) (16M)
Release Owner: Richard Huang

BIOS Components/Contents

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

System hardware configurations supported: MH70-HD0

Microcode updates versions:

CPUID	Family	Microcode Update ID
406F0	Broadwell-EP Processor A-0, A-1, L-0	00000014
406F1	Broadwell-EP Processor B-0, M-0, R-0	0B000036
306F0	Haswell-EP Processor A-0	FFFF0017
306F1	Haswell-EP Processor B-0	00000014
306F2	Haswell-EP Processor C-0, C-1, M-0, M-1, R-2	00000043

IPMI support:

AMI Kernel version: [Gbt_Kernel_023_165](#)

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

SPI Descriptor version: [03.01.03.023.0_09](#)

OPROM version :

OPROM	Version
INTEL RAID PACKAGE	RSTe 4.5.0.1333
AST2400 VGA	1.09.00
INTEL 10G PXE	2.3.24
INTEL 10G LAN EFI	4.4.11

Installation Notes

IMPORTANT NOTES:

1. Please extract the MH70-HD0_[R12](#).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

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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

R12

1. ASPEED VBIOS update to 1.09.0 for CVE-2019-6260.

R11

1. Fix INTEL-SA-00233.

R10

1. Add workaround from MRC V4.4.0 for erratum: Systems That Enable Both OSB And IODC May Exhibit Unexpected System Behavior.

R09

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

Haswell-EP M6F306F2_0000003D

Broadwell-EP MEF406F1_0B00002E

R08

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

R07

1. Add solution of Intel Unsafe Opcodes exposed in Intel SPI based products.

R06

1. Update Broadwell-EP Microcode 0B000021.
2. Fix ECC UE 0xFF.

R03

1. Update Broadwell-EP Microcode 0B00001E.

R02

1. Fine tune PCIe RXEQ for Broadwell-EP.

R01

1. Official release support Broadwell-EP CPU.

T07

1. Update RC 3.10.
2. Update SPS FW 03.01.03.023.0.
3. Update RSTe 4.5.0.1333.
4. Fine tune QPI TAP and PCIe RXEQ setting.
5. Fine tune SATA single.

T06

1. Update RC 3.00.
2. Update SPS FW 03.01.03.021.0.

T05

1. Update RC 2.91.
2. Update SPS FW 03.01.03.018.0.

F12

1. Fix some NVMe HDD can't detect.

F10

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.

F09

1. Fixed BIOS recovery failure.

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F07

1. Fixed Add-on VGA resource issue.
 2. Fixed BIOS recovery failure.
 3. Fixed error log when [Active Video] as [Onboard Device].
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F06

1. Support BMC update BIOS setup.
 2. Fix ipmiboot for both old and new BMC FW.
 3. BMC IPv6 display full IP address information when DHCP mode.
 4. Support display POST code.
 5. Fix LSI2008 and LSI2308 can't used shard OPROM.
 6. Fix HDD Information not display under Web_UI with UEFI RAID mode.
 7. Support Power/Performance policy quick setting item.
 8. Update SPS FW 03.00.07.154.0.
 9. Update RC 1.10.
 10. Update Microcode to 0x2D.
 11. Fix system hang up when enable COD check error.
 12. Fix S4 stress fail.
 13. Fix 4Kn HDD size display wrong on BIOS setup.
 14. Smart setting for COD and Snoop mode.
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F05

1. Support BMC IPv6 setup item.
 2. Update SPS FW 03.00.07.114.0.
 3. Fix WHEA logger event ID 16.
 4. Fix F12 network boot can't find HDD.
 5. Update Microcode to 0x2A.
 6. Disable PCIe SSC.
 7. Update RC 1.05.
 8. Support NVMe and PCIe SSD.
 9. Support M/B information to BMC.
 10. Fix system auto wakeup after enter S4.
 11. Fix clear CMOS to load default issue.
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F04

1. Fix LAN controller cannot be disabled with global reset.
 2. Fix SIO fail message in Linux.
 3. Fix A-DATA SPD ID wrong.
 4. Fix press hot-key during POST cause system hang up.
 5. Support CRSH210 card.
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F03

1. Update RC to 1.01
2. Update Microcodeto 0x1F.
3. Update RSTe 4.1.0.1047.
4. Update Intel TXT to 1.10A.

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5. Update SPS FW to 03.00.05.402.0_04.

F02

1. Modify Power LED setting.

F01

1. Release F01 BIOS.

D04

1.[0018015] Fix: It cannot use ipmi command to set bootdev pxe.

D03

1. Fix reboot test fail.

D02

1. Update kernel
2. Update Reference Code V0.96
3. Update SPS ME to 03.00.05.382.0_02
4. Fix 82599 LAN cannot be disabled
5. Update IR version A01
6. Fine tune USB2.0 strength
7. Fine tune QPI TAP
8. Fine tune PCIe CTLE
9. Set IIO0 IOU1 PCIe link speed default to Gen1
- 10.

D01

1. Correct USB Overcurrent OC pin mapping setting.

E01

1. First version released for MH70-HD0.
