

BIOS Release Notes

TITLE

SUBJECT: MC20-S10 BIOS Release Notes version [F07](#)
System: [D120-C20](#), [D120-C21](#)

About This Release

Build Date: [2019/5/24](#)
BIOS Checksum: [0x5A064DBF](#) (8M), [0xD07C9071](#) (16M)
Release Owner: Yujia.Chen

BIOS Components/Contents

Processor stepping(s) supported: supports Intel® Broadwell-DE processors
System hardware configurations supported: MC20-S10
Microcode updates versions:

CPUID	Family	Microcode Update ID
50661	Broadwell-DE Processor U-0	F1000008
50662	Broadwell-DE Processor V-1	0000001A
50663	Broadwell-DE Processor V-2	07000017
50664	Broadwell-DE Processor Y-0	0F000015

IPMI support:

AMI Kernel version: [Gbt_Kernel_021_068](#)

Intel CSI/MRC Package version: [1.95](#)

SPI Descriptor version: [03.00.03.020.0_04](#)

OPROM version :

OPROM	Version
AST2400 VGA	1.09.00
INTEL 1G PXE	1.5.53
INTEL 1G LAN EFI	6.2.08

Installation Notes

IMPORTANT NOTES:

1. Please extract the MC20-S10_[F07](#).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

BIOS Release Notes

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

Known Issues/Workarounds

Issues fixed in this version

F07

1. Upgrade AST2400 VBIOS v1.09.00
2. Update V-1 Microcode 0000001A.
3. Update V-2 Microcode 07000017.
4. Update Y-0 Microcode 0F000015.

F06

1. Update V-1 Microcode 00000017.
2. Update V-2 Microcode 07000013.
3. Update Y-0 Microcode 0F000012.

F05

1. Update V-1 Microcode 00000015.
2. Update V-2 Microcode 07000012.
3. Update Y-0 Microcode 0F000011.
4. Fix CPU security Spectre and Meltdown issue - Branch Target Injection (CVE-2017-5715).

F04

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

BIOS Release Notes

F02

1. Fine tune HDD spin up policy.
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F01

1. Update V-2 Microcode.
 2. Update VR solution for v1.0 MB.
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D10

1. Update V-1, V-2 Microcode and SPS FW 3.0.3.20.0.
 2. Update VR solution.
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D09

1. Fix PCIe error type wrong on BMC SEL Log.
 2. Fix Windows Event Error ID 16.
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D08

1. Update VR power solution.
 2. Default disable PCIe error report.
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D07

1. Fix BIOS recovery fail.
 2. Fix some HDD size detect wrong.
 3. Fix AMISCE tool can't use.
 4. Fix LAN MAC address get wrong.
 5. Swap LAN1/2 and LAN3/4 queue.
 6. Fix COM port can't work.
 7. Fix PCIe error report test fail.
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D06

1. Update SPS 03.00.03.014.1.
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D05

1. Update RC 1.95.
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D04

1. Support memory error logging.
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D03

1. Fix onboard HDD power fail.
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D02

1. Update RC 1.90.
2. Fix Keyboard may hang up when Mega RAID option rom progress under POST.
3. Fix BIOS recovery fail.

BIOS Release Notes

D01

1. Update RC 1.85.
2. Update SPS to 03.00.03.009.0
3. Update Microcode to 0x0C.

E01

1. First release.
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