

BIOS Release Notes

TITLE

SUBJECT: MG50-G20 BIOS Release Notes version [R13](#)
System: [G25N-G51](#), [G250-G51](#), [G250-S88](#)

About This Release

Build Date: [2019/12/5](#)
BIOS Checksum: [0x592BE7F4](#) (8M), [0xCF3F8F8D](#) (16M)
Release Owner: Jonas.Hsu

BIOS Components/Contents

Processor stepping(s) supported: supports Intel® Haswell-EP/Broadwell-EP processors
System hardware configurations supported: MG50-G20
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	0B000038
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_170](#)

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

SPI Descriptor version: [03.01.03.072.0_08](#)

OPROM version :

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

Installation Notes

IMPORTANT NOTES:

1. Please extract the MG50-G20_ [R13](#).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

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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

R13

- 1.Security update for 2019.2 Intel Platform Update (IPU).

[1] Update Microcode:Hasswell-EP M6F306F2_00000043,Broadwell-EP MEF406F1_0B000038.

- [2] Update ACM :SINIT 3.1.3.

- [3] Update Update SPS 03.01.03.72.0.

R12

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

R11

1. Fix Quadro K420 can't display.
2. Support 32M GPU * 8.

R10

- 1.Release option for PCIe bifurcation

R09

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1. update microcode for Security

R08

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

R07

1. Modify Re-driver for GPU card.

R06

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

R05

1. Fixed issue that CPU report error 0xFF

R04

1. Modify re-driver.

R03

1. Update Microcode.

R02

1. sync redriver value

R01

1. RC refresh release first

T07

1. update MRC

T06

1. update Kernel to support Riser FRU function

T05

1. Adjust Broadwell CPU QPI and PCIe Tap value

T04

1. Fixed issue that MMIO Base 4T incorrect.

T02

1. Update MRC

F08

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

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4. Fix Load Default Utility can't work.

F07

1. Fix GPU card loss when DC on/off stress.

T01

1. Refresh

F06

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

F05

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

F04

1. Update Kernel

F03

1. Disabled ACS

F02

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.

F01

1. First release.

D15

1. Update MRC 1.05

D14

1. modify PCH_USB_PORT_MAPPING
2. update CPU0/CPU1 IOU0 RXEQ
3. Added Memory type for 1.3v and 1.22v
4. Added Memory type for 1.40v

D13

1. Sets AC Loss to disable.
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D12

1. IR modified.
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D11

1. fix VMware issue
 2. update kernel
-

D10

1. Reading Power from BMC.
-

D09

1. Changed Re-driver gpio pin from 73 to 55.
-

D08

1. Disabled SERR and PERR feature
-

D07

1. Down Kernel to 016
-

D06

1. update kernel
-

D05

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.
-

D04

1. modify driver value
-

D01

1. Enable Intel TXT function.
-

E07

1. update kernel to fix stop 0xAA
-

E06

1. modify redriver value
-

E05

1. fixed OS random stop 0xAA
-

E04

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1. update ir power firmware
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E03

1. fixed GPIO issue
-

E02

1. update kernel
 2. update power IR firmware
-

E01

1. First release EVT
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