

BIOS Release Notes

TITLE

SUBJECT: MSB4-G40 BIOS Release Notes version [F12](#)

System: [MSB4-G40-000](#), [G494-SB0-AAP1-000](#), [G494-SB1-AAP1-000](#)

About This Release

Build Date: [2024/11/21](#)

BIOS Checksum: [0xB7445EC9](#) (16M), [0x55A15EAC](#) (64M)

Release Owner: willy.chen

BIOS Components/Contents

Processor stepping(s) supported: Intel® Granite Rapids-SP, Sierra Forest-SP processor

System hardware configurations supported: MSB4-G40

Microcode updates versions:

CPUID	Family	Microcode Update ID
a06d0	Processor GNR A0	10000680
a06d1	Processor GNR B0	01000311
a06d1	Processor GNR R1S B0	1a000080
a06f3	Processor SRF C0	03000270

IPMI support:

AMI Kernel version: [Gbt_Kernel_064_27](#)

Intel CSI/MRC Package version: [3544P.08](#)

OPROM version :

OPROM	Version
AST2600 VGA	1.13.05
INTEL RAID PACKAGE	RSTe 9.0.0.1096

Installation Notes

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IMPORTANT NOTES:

1. Please extract the MSB4-G40_F12.zip to a bootable diskette that use FAT/FAT32 format

BIOS UPDATE INSTRUCTIONS FOR EFI Shell:

1. Insert USB flash drive to system for BIOS upgrade.
2. Power on system and boot to Build-In Shell.
3. Enter your USB filesystem, like "fs0:" or "fsx:", "x" is your USB filesystem number
4. Execute F.nsh for bios update
5. After bios flash finish, system must Power-Off to have the changes take effect.

BIOS UPDATE INSTRUCTIONS FOR Windows:

1. Insert bios update USB flash drive.
2. Use Command Shell.
3. Enter \Tool\Win32 and execute f.bat for Windows 32bit.
Or
Enter \Tool\Win64 and execute f.bat for Windows 64bit.
4. After bios flash finish, system must Power-Off to have the changes take effect.

BIOS UPDATE FOR Easy BIOS Refresh:

1. The system supports remotely update BIOS if BMC existent.
2. Please download the Easy BIOS Refresh User Guide from Gigabyte website, target system support page.

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

F12

1. [Bug Fix] Fix the bug about device resource related function.
2. [Feature] Update AST2600 driver : 1.13.05

F11

1. [Feature] Update RC 3544P.08 (BKC 2024 WW43)
2. [Feature] Update microcode:
GNR A0 MCU : m_95_a06d0_10000680

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GNR B0 MCU : m_95_a06d1_01000311
GNR R1S B0 MCU : m_20_a06d1_1a000080
SRF C0 MCU : m_01_a06f3_03000270

F10

1. [Feature] Update Mapping table : R17.
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F09

1. [Bug Fix] Add intel patch for preventing boot failed with Samsung's specific dimms.
 2. [Bug Fix] Fix the bug about system will hang code after changing slot lanes.
 3. [Feature] Update Mapping table : R15.
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F08

1. [Feature] Support GNR R1S B0 stepping CPU.
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F07

1. [Feature] Update RC 34.D65 (BKC 2024 WW33)
2. [Feature] Update microcode:

GNR A0 MCU : m_95_a06d0_80000670

GNR B0 MCU : m_95_a06d1_810002e0

SRF C0 MCU : m_01_a06f3_03000211

3. [Feature] VROC driver : 9.0.0.1096
 4. [Bug Fix] Fix the bug about incorrect ECC CE/UCE sel information.
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F06

1. [Bug Fix] Fix the bug about PCIe device out of resource.
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F05

1. [Feature] Support SRF PRQ C0 stepping CPU.
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F04

1. [Feature] Update VR MPS version : A10.
 2. [Feature] Support dual BIOS check command.
 3. [Bug Fix] Fix the bug about remote setup error.
 4. [Bug Fix] Fix the ECC/PERR/SERR incorrect SEL format.
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F03

1. [Feature] Update RC 3218.D03 (BKC 2024 WW21)
2. [Feature] Update microcode:

SRF A0 MCU : m_01_a06f0_80000360

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GNR A0 MCU : m_01_a06f0_80000640

SRF C0 MCU : m_01_a06f3_13000132

3. [Feature] VROC driver : 9.0.0.1096
 4. [Bug Fix] Fix the bug about BIOS recovery feature.
 5. [Bug Fix] Fix the bug about incorrect remote setup menu information.
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F02

1. [Feature] Update VR MPS version : A9.
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F01

1. [Feature] Update RC 0031.D97 (BKC 2024 WW19)
 2. [Feature] Update microcode:
SRF A0 MCU : m_01_a06f0_80000360
GNR A0 MCU : m_01_a06f0_80000640
SRF C0 MCU : m_01_a06f3_13000132
 3. [Feature] VROC driver : 9.0.0.1096
 4. [Bug Fix] Fix yellow device of com port.
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D21

1. [Bug Fix] Fix the bug about daul BIOS check command.
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D20

1. [Bug Fix] Fix the bug about windows OS will randomly crash.
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D19

1. [Feature] Support Power Policy setup item.
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D18

1. [Bug Fix] Fix the bug about hanging code at 0x92 durning VMD enable.
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D17

1. [Feature] Update RC 0031.D27 (BKC 2024 WW15)
 2. [Feature] Update microcode:
SRF A0 MCU : m_01_a06f0_80000360
GNR A0 MCU : m_01_a06f0_80000620
SRF C0 MCU : m_01_a06f3_13000132
 3. [Feature] VROC driver : 9.0.0.1096
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D16

1. [Feature] Update RC 0030.D85 (BKC 2024 WW13)

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2. [Feature] Update microcode:

SRF A0 MCU : m_01_a06f0_80000360

GNR A0 MCU : m_01_a06f0_80000611

SRF C0 MCU : m_01_a06f3_13000131

3. [Feature] VROC driver : 9.0.0.1096

D15

1. [Bug Fix] Fine tune release note information.

D14

1. [Feature] Update mapping table version : 13.
 2. [Feature] Update MPS VR version : A8.
 3. [Bug Fix] Fine tune WOL default setting to "Enable"
 4. [Bug Fix] Fix SMBIOS Type 16 incorrect information.
 5. [Feature] Support "Power Button 1s shutdown" function under OS.
 6. [Bug Fix] Fix IPV6 setting bug.
 7. [Bug Fix] Fix ECC information during POST.
 8. [Bug Fix] Fix NVMe port number incorrect in POST Text phase with VMD enable.
 9. [Bug Fix] Fix Main page "Processor" incorrect information.
 10. [Bug Fix] Fix ECC Bad DIMM will disappear after UCE occur.
 11. [Bug Fix] Fix SMBIOS Type 129 incorrect information.
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D13

1. [Bug Fix] Because release VROC driver 9.0.0.1088 have bug, rollback VROC driver to 9.0.0.1096.

D12

1. [Bug Fix] Support SRF QS C0 stepping CPU.

D11

1. [Feature] Update RC 0030.D54 (BKC 2024 WW11)

2. [Feature] Update microcode:

SRF A0 MCU : m_01_a06f0_80000360

GNR A0 MCU : m_01_a06f0_80000600

3. [Feature] VROC driver : 9.0.0.1088

D10

1. [Bug Fix] Fix the bug about AFU (Linux) script.

D09

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1. [Bug Fix] Update VR solution : A7.
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D08

1. [Bug Fix] Fix the bug about lan disable feature.
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D07

1. [Feature] Update RC 0030.D34 (BKC 2024 WW09)
 2. [Feature] Update microcode:
SRF A0 MCU : m_01_a06f0_80000360
GNR A0 MCU : m_01_a06f0_800005c0
 3. [Feature] VROC driver : 9.0.0.1096
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D06

1. [Bug Fix] Fix the bug about LOG fail.
 2. [Bug Fix] Fix the bug about USB SVID not correct behind ASM switch.
 3. [Feature] Add Redfish feature set.
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D05

1. [Feature] Update RC 0029.D87 (BKC 2024 WW07)
 2. [Feature] Update microcode:
SRF A0 MCU : m_01_a06f0_80000360
GNR A0 MCU : m_01_a06f0_800005c0
 3. [Feature] VROC driver : 9.0.0.1096
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D04

1. [Feature] Add Mapping table GPU feature set.
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D03

1. [Bug Fix] Fix the bug about IPV4/IPV6 incorrect description.
 2. [Feature] Add BPB region feature set.
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D02

1. [Feature] Update VR MPS version : A6.
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D01

1. [Feature] First DVT release BIOS.
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E34

1. [Feature] Update RC 0029.D28 (BKC 2024 WW05)
2. [Feature] Update microcode:

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SRF A0 MCU : m_01_a06f0_80000351

GNR A0 MCU : m_01_a06f0_80000593

E33

1. [Feature] Update RC 2915.D01 (BKC 2024 WW03)
2. [Feature] Update microcode:

SRF A0 MCU : m_01_a06f0_80000351

GNR A0 MCU : m_01_a06f0_80000592

E32

1. [Feature] Update MPS VR solution : A5.
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E31

1. [Bug Fix] Fixed present pin bifurcation error.
 2. [Bug Fix] Fixed one CPU hang on mapping table.
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E30

1. [Feature] Update MPS VR solution : A4.
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E29

1. [Bug Fix] Fine tune OCP vGPIO setting.
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E28

1. [Feature] Update MPS VR solution : A3.
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E27

1. [Feature] Update VROC driver to 9.0.0.1096.
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E26

1. [Bug Fix] Fix the bug about shell.efi not show correct information.
 2. [Bug Fix] Fix the bug about it will hang code with SATA RAID card.
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E25

1. [Feature] Update RC 2780.D02 (BKC 2023 WW47)
2. [Feature] Update microcode:

SRF A0 MCU : m_01_a06f0_80000340

GNR A0 MCU : m_01_a06f0_80000520

3. [Feature] VROC driver : 9.0.0.1044_2
 4. [Feature] Support SRF CPU VROC.
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E24

1. [Bug Fix] Fine tune OCP related GPIO setting.
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E23

1. [Feature] Update VR MPS solution : A2.
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E22

1. [Feature] Fine tune vGPIO default setting.
 2. [Bug Fix] Support SERR/PERR feature.
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E21

1. [Bug Fix] Fine tune mapping table.
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E20

1. [Bug Fix] Fix the bug about auto bifurcation by SKU.
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E19

1. [Feature] Import the first MPS VR version - A1.
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E18

1. [Bug Fix] Fix the bug about Smbus.efi not workable.
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E17

1. [Feature] Update RC 27.D13 (BKC 2023 WW43)
 2. [Feature] 2. Update microcode:
SRF A0 MCU : m_01_a06f0_80000320
GNR A0 MCU : m_01_a06f0_800004e0
 3. [Feature] VROC driver : 9.0.0.1044_2
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E16

1. [Bug Fix] Skip the 2DPC check for DDR 4800.
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E15

1. [Feature] Update RC 26.D88 (BKC 2023 Alpha)
 2. [Feature] Update microcode:
SRF A0 MCU : m_01_a06f0_800002f0
GNR A0 MCU : m_01_a06f0_800004a2
 3. [Feature] VROC driver : 9.0.0.1044_2
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E14

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1. [Feature] Fix the bug about setup menu display.
 2. [Feature] Fine tune to GPU server setting.
 3. [Feature] Update VR MPS ver A2.
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E13

1. [Bug Fix] Fix the bug about loading X710 OPRom fail.
 2. [Bug Fix] Fix the bug about one socket will hang code.
 3. [Feature] Enable BMC SKU page.
 4. [Feature] Fine tune eSPI CS1 to quad mode.
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E12

1. [Feature] Import the first MPS VR.
 2. [Bug Fix] Fine tune the early display feature.
 3. [Bug Fix] Fine tune eSPI CS1 to single mode.
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E11

1. [Feature] Fine tune VGA setting to MB v0.2.
 2. [Feature] Fine tune USB setting to MB v0.2.
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E10

1. [Bug Fix] Fix onboard lan incorrect mac.
 2. [Bug Fix] Fix SMBIOS information.
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E09

1. [Bug Fix] Fix the bug in SMBIOS table.
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E08

1. [Bug Fix] Fine tune early display timing.
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E07

1. [Bug Fix] Fix the bug about onboard lan link as incorrect width
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E06

1. [Feature] Update RC 24.D92 (BKC 2023 WW31)
2. [Feature] Update microcode:

SRF A0 MCU : m_01_a06f0_80000272

GNR A0 MCU : m_01_a06f0_80000420
