

BIOS Release Notes

TITLE

SUBJECT: MSG4-GU0 BIOS Release Notes version [F12](#)
System: [MSG4-GU0-000](#), [R164-SG0-AAC1-000](#), [R164-SG0-AAH1-000](#), [R164-SG2-AAD1-000](#), [R164-SG2-AAV1-000](#), [R264-SG0-AAS1-000](#)

About This Release

Build Date: [2024/11/14](#)
BIOS Checksum: [0xB708A61E](#) (16M), [0x5565A601](#) (64M)
Release Owner: lulu.chuang

BIOS Components/Contents

Processor stepping(s) supported: Intel® Granite Rapids-SP, Sierra Forest-SP processor
System hardware configurations supported: MSG4-GU0
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_21](#)

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

OPROM version :

OPROM	Version
AST2600 VGA	1.12.00
INTEL RAID PACKAGE	RSTe 9.0.0.1096

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Installation Notes

IMPORTANT NOTES:

1. Please extract the MSG4-GU0_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. [Feature] Update RC 3544P.08 (BKC 2024 WW43)
2. [Feature] Update microcode:
GNR A0 MCU : m_95_a06d0_10000680
GNR B0 MCU : m_95_a06d1_01000311

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GNR R1S B0 MCU : m_20_a06d1_1a000080

SRF C0 MCU : m_01_a06f3_03000270

3. [Feature] Update Mapping table : R25
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F11

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 : R23
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F10

1. [Feature] Support GNR R1S B0 stepping CPU.
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F09

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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F08

1. [Feature] Update SRF PROD/QS microcode : m_01_a06f3_03000211
 2. [Bug Fix] Fixed USB asl code hub status reporting error issue.
 3. [Bug Fix] Fine tune the present pin value.
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F07

1. [Bug Fix] Fix the bug about PCIe device out of resource.
 2. [Feature] Disable DSA temp solution.
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F06

1. [Feature] Support SRF PRQ C0 stepping CPU.
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F05

1. [Feature] Support dual BIOS check command.
 2. [Bug Fix] Fix the bug about remote setup error.
 3. [Bug Fix] Fix the ECC/PERR/SERR incorrect format.
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F04

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

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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 the bug about BIOS recovery feature.

5. [Bug Fix] Fix the bug about incorrect remote setup menu information.

F03

1. [Feature] Update VR MPS version : A8.

F02

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.

F01

1. [Feature] First PVT BIOS release.

D18

1. [Bug Fix] Fixed USB ports show incorrect info.

D17

1. [Bug Fix] Fix Windows BSOD bug.

2. [Feature] Enhance USB mapping feature.

3. [Feature] Support Power Policy setup item.

D16

1. [Feature] Support Power Policy setup item.

D15

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

2. [Bug Fix] Fixed Hot-plug failed with NVMe port 2 & 3.

D14

1. [Feature] Update RC 0031.D27 (BKC 2024 WW15)

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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

D13

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

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

D12

1. [Feature] Update system mapping table to version 20.

D11

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

D10

1. [Feature] Update VR solution to version A7.

D09

1. [Feature] Fine tune WOL default setting to "Enable"

2. [Bug Fix] Fix SMBIOS Type 16 incorrect information.

3. [Feature] Support "Power Button 1s shutdown" function under OS.

4. [Bug Fix] Fix IPV6 setting bug.

5. [Bug Fix] Fix ECC information during POST.

6. [Bug Fix] Fix NVMe port number incorrect in POST Text phase with VMD enable.

7. [Bug Fix] Fix Main page "Processor" incorrect information.

8. [Bug Fix] Fix ECC Bad DIMM will disappear after UCE occur.

9. [Bug Fix] Fix SMBIOS Type 129 incorrect information.

D08

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

D07

1. [Feature] Support SRF QS C0 stepping CPU.

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D06

1. [Feature] Update kernel 5.34_0ACQZ_30D54_SRFSP_48_BETA
 2. [Feature] Update RC 0030.D54 (BKC 2024 WW11)
 3. [Feature] Update microcode:
SRF A0 MCU : m_01_a06f0_80000360
GNR A0 MCU : m_01_a06f0_80000600
 4. [Feature] VROC driver : 9.0.0.1088
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D05

1. [Feature] Implement USB mapping.
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D04

1. [Bug Fix] Update VR solution version : A6.
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D03

1. [Bug Fix] Fixed Lan disabled error.
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D02

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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D01

1. [Feature] First DVT release BIOS.
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E19

1. [Feature] Update VR solution to version A5.
 2. [Feature] Update system inventory to version 19.
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E18

1. [Feature] Add GPU SKU related feature set.
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E17

1. [Feature] Update RC 0029.D28 (BKC 2024 WW05)
2. [Feature] Update microcode:
SRF A0 MCU : m_01_a06f0_80000351
GNR A0 MCU : m_01_a06f0_80000593

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E16

1. [Feature] Improve the correctable error flow about ASM switch device.
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E15

1. [Bug Fix] Fine tune Mapping table setting.
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E14

1. [Bug Fix] Enable MPS solution with VR version : A4.
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E13

1. [Feature] Update MPS VR solution : A4.
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E12

1. [Bug Fix] Fix the bug about R1S support.
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E11

1. [Bug Fix] Fixed present pin bifurcation error.
 2. [Bug Fix] Fixed one CPU hang on mapping table.
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E10

1. [Feature] Disable MPS VR function.
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E09

1. [Feature] Update the system mapping table to version 12.
 2. [Feature] Implement VPP settings.
 3. [Feature] Enabled GPU setting.
 4. [Feature] Support R1S CPU.
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E08

1. [Feature] Update VR MPS solution: A3.
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E07

1. [Feature] Update VR MPS solution: A2.
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E06

1. [Feature] Update VR MPS solution: A1.
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E05

1. [Bug Fix] Fixed redriver error.

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E04

1. [Feature] Update VROC driver to 9.0.0.1096.
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E03

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.
 5. [Bug Fix] Fine tune OCP related GPIO setting.
 6. [Bug Fix] Fine tune PCA9555 token
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E02

1. [Feature] Update the system mapping table.
 2. [Feature] Fine-tune vGPIO default setting.
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E01

1. [Feature] First release.
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