

# BIOS Release Notes

## TITLE

**SUBJECT:** MSG3-GU0 BIOS Release Notes version [R03](#)  
**System:** [MSG3-GU0-000](#), [R163-SG0-AAC1-000](#), [R163-SG2-AAC1-000](#), [R263-SG0-AAL1-000](#), [R263-SG0-AAE1-000](#)

## About This Release

**Build Date:** [2024/03/08](#)  
**BIOS Checksum:** [0xA76CFD56](#) (16M), [0x8F74D0CC](#) (64M)  
**Release Owner:** kimberly.lin

## BIOS Components/Contents

**Processor stepping(s) supported:** Intel® Sapphire Rapids-SP/Emerald Rapids-SP processor  
**System hardware configurations supported:** MSG3-GU0  
**Microcode updates versions:**

CPUID	Family	Microcode Update ID
806f3	Sapphire Rapids Production D-0	0d0004b1
806f8	Sapphire Rapids All HBM Production B	2c000360
806f8	Sapphire Rapids All Production XCC E / MCC S / EE LCC U	2b000590
c06f2	Processor Emerald Rapids Production XCC A1 / MCC R1	21000200

**IPMI support:**  
**AMI Kernel version:** [Gbt\\_Kernel\\_101\\_01](#)  
**Intel CSI/MRC Package version:** [1752.P05](#)  
**SPI Descriptor version:** [06.01.04.005.0](#)  
**OPROM version :**

OPROM	Version
AST2600 VGA	1.12.00
INTEL RAID PACKAGE	RSTe 8.5.0.1096_2

## Installation Notes

### IMPORTANT NOTES:

1. Please extract the MSG3-GU0\_[R03](#).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.

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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 <DEL> during POST
2. The bios version shows on the first main page

## Known Issues/Workarounds

## Issues fixed in this version

### R03

1. [Feature] Update RC 1752.P05 (EagleStream UMR1 BKC 2024 WW05).
2. [Feature] Update EMR Microcode : No update.
3. [Feature] Update SPR Microcode : SPR Production E  
Stepping:m\_87\_806f8\_2b000590.pdb;SPR HBM Production B  
Stepping:m\_10\_806f8\_2c000360.pdb;
4. [Feature] Add AMI SA50218 for below CVE :  
CVE-2023-45229  
CVE-2023-45230  
CVE-2023-45231  
CVE-2023-45232  
CVE-2023-45233  
CVE-2023-45234  
CVE-2023-45235
5. [Feature] Add AMI SA50229 for CVE-2023-3817 and CVE-2023-2650.
6. [Feature] Add AMI SA50236 for CVE-2023-5678.

### R02

1. [Feature] Update RC 107.D52 (EagleStream PV BKC 2023 WW49).
2. [Feature] Update EMR Microcode : EMR A0-Stepping: m\_87\_c06f2\_a1000200.pdb ; EMR  
Production A0-Stepping:Stepping:m\_87\_c06f2\_21000200.pdb;
3. [Feature] Add AMI SA50216 solution for CVE-2023-39539 and CVE-2023-39538.

### R01

1. [Feature] Update Ami kernel 5.32\_EagleStreamCrb\_0ACOR\_098.
2. [Feature] Update RC 107.D20 (EagleStream BKC 2023 WW45).
3. [Feature] Update EMR Microcode : EMR A0-Stepping: m\_87\_c06f2\_a10001d1.pdb .pdb ;  
EMR Production A0-Stepping:m\_87\_c06f2\_210001B0.pdb; SPR Production E-

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Stepping:m\_87\_806f8\_2b000571.pdb;SPR HBM Production B-

Stepping:m\_87\_806f8\_2c000351.pdb;

4. [Feature] Update SPS to SPS\_E5\_06.01.04.005.0.

5. [Feature] Update VROC driver to v8.5.0.1096.

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### T07

1. [Feature] Update Ami kernel 5.32\_EagleStreamCrb\_0ACOR\_096.

2. [Feature] Update RC 105.D74 (EagleStream BKC 2023 WW41).

3. [Feature] Update EMR Microcode : EMR A0-Stepping: m\_87\_c06f2\_a1000190.pdb ; EMR Production A0-Stepping:m\_87\_c06f2\_21000190.pdb; SPR Production E-

Stepping:m\_87\_806f8\_2b000541.pdb;SPR HBM Production B-

Stepping:m\_87\_806f8\_2c000321.pdb;

4. [Feature] Update SPS to SPS\_E5\_06.01.04.003.0.

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### T06

1. [Feature] Base on 2023 WW37 BKC release PC version BIOS.

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### T05

1. [Bug Fix] Update Ami kernel 5.32\_EagleStreamCrb\_EMR\_0ACOR\_093.

2. [Bug Fix] Update RC 105.D74 (EagleStream BKC 2023 WW37).

3. [Bug Fix] Update EMR Microcode : EMR A0-Stepping: m\_87\_c06f2\_a1000161.pdb ; EMR Production A0-Stepping:m\_87\_c06f2\_21000161.pdb;

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### T04

1. [Bug Fix] Update Ami kernel 5.32\_EagleStreamCrb\_EMR\_0ACOR\_092.

2. [Bug Fix] Update RC 105.D48 (EagleStream BKC 2023 WW35).

3. [Bug Fix] Update EMR Microcode : EMR A0-Stepping: m\_87\_c06f2\_a1000160.pdb ; EMR Production A0-Stepping:m\_87\_c06f2\_21000160.pdb;

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### T03

1. [Bug Fix] Update Ami kernel 5.32\_EagleStreamCrb\_EMR\_0ACOR\_091.

2. [Bug Fix] Update RC 105.D20 (EagleStream BKC 2023 WW33).

3. [Bug Fix] Update EMR Microcode : EMR A0-Stepping: m\_87\_c06f2\_a1000150.pdb ; EMR Production A0-Stepping:m\_87\_c06f2\_21000140.pdb;

4. [Bug Fix] Update EMR SPS version to SPS\_E5\_06.01.03.011.0.

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### T02

1. [Bug Fix] Update Ami kernel 5.32\_EagleStreamCrb\_EMR\_0ACOR\_088.

2. [Bug Fix] Update RC 103.D70 (EagleStream BKC 2023 WW27).

3. [Bug Fix] Update EMR Microcode : EMR A0-Stepping: m\_87\_c06f2\_a1000100.pdb ; EMR Production A0-Stepping:m\_87\_c06f2\_210000e0.pdb;

4. [Bug Fix] Update EMR SPS version to SPS\_E5\_06.01.02.048.0.

5. [Bug Fix] Update VROC driver to v8.5.0.1042.

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### T01

1. [Feature] Update RC 102.D37 (EagleStream BKC 2023 WW21).

2. [Feature] Update EMR Microcode : EMR A0-Stepping: EMR A0-Stepping:m\_87\_c06f2\_a10000a0.pdb ; EMR Production A0-Stepping:m\_87\_c06f1\_21000070.pdb;

3. [Feature] Update EMR SPS version to SPS\_E5\_06.01.02.009.0.

4. [Feature] Update VROC driver to v8.5.0.1020.

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