

# BIOS Release Notes

## TITLE

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**SUBJECT:** MSB3-PE0(GPU) BIOS Release Notes version [R05](#)  
**System:** [MSB3-PE0-000](#), [G4L3-SD1-LAX1-000](#), [G893-SD1-AAX1-000](#), [G893-SG1-AAX1-000](#), [G893-SD1-AAX3-000](#), [G893-SD1-AAX5-000](#), [G4L3-SD1-LAX3-000](#), [G4L3-SD1-LAX5-000](#)

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### About This Release

**Build Date:** [2025/02/21](#)  
**BIOS Checksum:** [0xA4830241](#) (16M), [0x8C89BB97](#) (64M)  
**Release Owner:** wayne.wang

### BIOS Components/Contents

**Processor stepping(s) supported:** Intel® Sapphire Rapids-SP/Emerald Rapids-SP processor

**System hardware configurations supported:** MSB3-PE0(GPU)

**Microcode updates versions:**

CPUID	Family	Microcode Update ID
806f3	Sapphire Rapids Production D-0	0d0004b1
806f8	Sapphire Rapids All HBM Production B	2c0003e0
806f8	Sapphire Rapids All Production XCC E / MCC S / EE LCC U	2b000620
c06f2	Processor Emerald Rapids Production XCC A1 / MCC R1	21000291

**IPMI support:**

**AMI Kernel version:** [Gbt\\_Kernel\\_107\\_47](#)

**Intel CSI/MRC Package version:** [113.D55](#)

**SPI Descriptor version:** [06.01.04.075.0](#)

## BIOS Release Notes

### OPROM version :

OPROM	Version
INTEL 10G LAN EFI	7.0.19
INTEL 10G PXE	2.3.24
AST2600 VGA	1.13.03
INTEL RAID PACKAGE	RSTe 8.6.0.1136

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MSB3-PE0(GPU)\_[R05](#).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 "fs~~x~~:", "~~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 <DEL> during POST
2. The bios version shows on the first main page

### Known Issues/Workarounds

# BIOS Release Notes

## Issues fixed in this version

### R05

1. [Feature] Fine tune BIOS setup item default.
  2. [Feature] Improve KCS protocol.
  3. [Feature] Support Microsoft Option ROM UEFI CA 2023 for Secure Boot.
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### R04

1. [Feature] Fine-tune Redfish display content.
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### R03

1. [Feature] Fine-tune Redfish display content.
  2. [Feature] Fine-tune CPLD version display.
  3. [Feature] Improve the stability of Remote Setup.
  4. [Bug Fix] Fix EMR-SP "Volatile Memory Mode" display error in Redfish when loading default settings
  5. [Feature] Support x710 lan Disable/Enable
  6. [Feature] Enhance KMIP Stability
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### R02

1. [Feature] Update RC 113.D55 (EagleStream uPLR3 BKC 2024 WW37).
  2. [Feature] Update EMR Microcode : EMR Production A\* / R\* Step: m\_87\_c06f2\_21000291.pdb;
  3. [Feature] Update SPR Microcode : SPR Production E\* / S\* Step: m\_87\_806f8\_2b000620.pdb; SPR HBM Production B\* Step: m\_10\_806f8\_2c0003e0.pdb;
  4. [Feature] Include INTEL-SA-01139 for CVE-2024-31157/CVE-2024-28047/CVE-2024-39279.
  5. [Feature] Include INTEL-SA-01166 for CVE-2024-31068.
  6. [Feature] Include INTEL-SA-01194 for CVE-2024-37020.
  7. [Feature] Include INTEL-SA-01120 for CVE-2024-25571.
  8. [Feature] Include INTEL-SA-01198 for CVE-2024-21859/CVE-2024-31155.
  9. [Feature] Include INTEL-SA-01152 for CVE-2024-26021/CVE-2024-30211.
  10. [Feature] Include INTEL-SA-01196 for CVE-2024-36242.
  11. [Feature] Include INTEL-SA-01192 for CVE-2024-33607.
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### R01

1. [Feature] First release for PVT stage.
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### D04

## BIOS Release Notes

1. [Feature] Update inventory.bin R16.
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D03

1. [Feature] Update inventory.bin R14.
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D02

1. [Feature] Add system G893-SG1-AAX1-000
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D01

1. [Feature] Enter DVT stage
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T05

1. [Feature] Update RC 111.D23 (EagleStream uPLR2 BKC 2024 WW30).
  2. [Feature] Update EMR Microcode : EMR Production A\* / R\* Step:  
m\_87\_c06f2\_21000283.pdb;
  3. [Feature] Update SPR Microcode : SPR Production E\* / S\* Step:  
m\_87\_806f8\_2b000603.pdb;SPR HBM Production B\* Step: m\_10\_806f8\_2c0003d3.pdb;
  4. [Feature] Update UEFI VROC to VROC v8.6.0.1136.
  5. [Feature] Update TDX Module to TDX\_1.5.06.00.744
  6. [Bug Fix] Include INTEL-SA-01097 for CVE-2024-24968
  7. [Bug Fix] Include INTEL-SA-01103 for CVE-2024-23984.
  8. [Bug Fix] Include INTEL-SA-01079 for CVE-2024-21820/CVE-2024-23918.
  9. [Bug Fix] Include INTEL-SA-01071 for CVE-2024-21829/CVE-2024-21781/CVE-2024-23599.
  10. [Bug Fix] Include INTEL-SA-01085 for CVE-2024-25565.
  11. [Bug Fix] Include INTEL-SA-01101 for CVE-2024-21853.
  12. [Bug Fix] Include INTEL-SA-01099 for CVE-2024-27457.
  13. [Bug Fix] Include INTEL-SA-01111 for CVE-2024-22185/CVE-2024-24985.
  14. [Bug Fix] Include INTEL-SA-01076 for CVE-2024-21850.
  15. [Bug Fix] Include AMI SA50158 for CWE-269.
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T04

1. [Feature] Update VR version C017
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T03

1. [Feature] Fix MSB3-PE0 CPU PE3 gen5
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T02

1. [Feature] Disable UPI port 3
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T01

## BIOS Release Notes

1. [Feature] First release

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