

BIOS Release Notes

TITLE

SUBJECT: MAG4-GU0 BIOS Release Notes version [F09](#)
System: [MAG4-GU0-000](#), [R264-AG0-AAS1-000](#), [E264-AG0-AAS1-000](#), [R164-AG0-AAV1-000](#), [R164-AG2-AAJ1-000](#)

About This Release

Build Date: [2024/12/27](#)
BIOS Checksum: [0xB964B5AB](#) (16M), [0x57C1AE36](#) (64M)
Release Owner: lulu.chuang

BIOS Components/Contents

Processor stepping(s) supported: Intel® Granite Rapids-AP, Sierra Forest-AP processor
System hardware configurations supported: MAG4-GU0
Microcode updates versions:

CPUID	Family	Microcode Update ID
a06d0	Processor GNR A0	10000680
a06d1	Processor GNR B0	01000360
a06f3	Processor SRF C0	83000270

IPMI support:
AMI Kernel version: [Gbt_Kernel_067_08](#)
Intel CSI/MRC Package version: [3544.P22](#)
OPROM version :

OPROM	Version
AST2600 VGA	1.13.05
INTEL RAID PACKAGE	RSTe 9.0.0.1230

Installation Notes

IMPORTANT NOTES:

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1. Please extract the MAG4-GU0_F09.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

F09

1. [Feature] Update RC 3544.P22 (BKC 2024 WW48)
 2. [Feature] Update microcode:
GNR A0 MCU : m_95_a06d0_10000680
GNR B0 MCU : m_95_a06d1_01000360
SRF C0 MCU : m_01_a06f3_8000270
 3. [Feature] Update VR solution : B4
 4. [Feature] First ROT BIOS package release
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F08

1. [Bug Fix] Fix the bug about device resource related function.
 2. [Feature] Update AST2600 driver : 1.13.05
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F07

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
SRF C0 MCU : m_01_a06f3_83000270
 3. [Feature] Update Mapping table : R16
 4. [Feature] Update VR solution to version B3.
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F06

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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F05

1. [Feature] Support BHS-AP GNR PRQ/QS CPU.
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F04

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_83000211
 3. [Feature] VROC driver : 9.0.0.1230
 4. [Bug Fix] Fix the bug about incorrect ECC CE/UCE sel information.
 5. [Feature] Update inventory.bin v14.
 6. [Bug Fix] Fixed Linux install error.
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F03

1. [Bug Fix] Fixed ECC CE & UCE SEL log incorrect location.
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F02

1. [Feature] Unhide below items:
Chipset-> UPI Configuration-> Uncore General Configuration-> Directory Mode Enable
Chipset-> UPI Configuration-> Uncore General Configuration-> Link L0p Enable
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F01

1. [Feature] First PVT release BIOS.
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D15

1. [Feature] Update VR solution to version B2.
 2. [Bug Fix] Fix BHS-AP Hot-Plug setting error.
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D14

1. [Bug Fix] Fix the bug about PCIe device out of resource.
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D13

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.
 4. [Feature] Update system mapping to version R09.
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D12

1. [Feature] Update RC 3218.D03 (BKC 2024 WW21)
 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 : 9.0.0.1230
 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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D11

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 : 9.0.0.1230
 4. [Bug Fix] Fix the yellow device of com port.
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D10

1. [Bug Fix] Fixed VGA setting error.
 2. [Feature] Update mapping table v0.8.
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D09

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1. [Bug Fix] Fixed VGA setting error.
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D08

1. [Feature] Update BHS-AP VROC EFI driver to 9.0.0.1230 version.
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D07

1. [Feature] Implement DVT2 project settings.
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D06

1. [Feature] Implement DVT2 project settings.
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D05

1. [Bug Fix] Fix Windows BSOD bug.
 2. [Feature] Update system mapping table to version R07.
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D04

1. [Feature] Support Power Policy setup item.
 2. [Feature] Update Ti VR version : B1.
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D03

1. [Bug Fix] Fix the bug about hanging code at 0x92 during VMD enable.
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D02

1. [Feature] Update RC 0031.D27 (BKC 2024 WW15)
 2. [Feature] Update microcode:
SRF A0 MCU : m_01_a06f0_80000360
GMR A0 MCU : m_01_a06f0_80000620
SRF C0 MCU : m_01_a06f3_13000132
 3. [Feature] VROC driver : 9.0.0.1088
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D01

1. [Feature] Update RC 0030.D85 (BKC 2024 WW13)
 2. [Feature] Update microcode:
SRF A0 MCU : m_01_a06f0_80000360
GMR A0 MCU : m_01_a06f0_80000611
SRF C0 MCU : m_01_a06f3_13000131
 3. [Feature] VROC driver : 9.0.0.1088
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E11

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

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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 durnung 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.
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E12

1. [Bug Fix] Fine tune release note information.
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E10

1. [Feature] Update system mapping table to version 06.
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E09

1. [Feature] Support SRF QS C0 stepping CPU.
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E08

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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E07

1. [Feature] Implement USB mapping.
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E06

1. [Bug Fix] Fixed Lan disabled error.
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E05

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_80000595
 3. [Feature] VROC driver : 9.0.0.1096
 4. [Bug Fix] Update system mapping table to version 05.
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BIOS Release Notes

E04

1. [Feature] Add GPU SKU related feature set.
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E03

1. [Bug Fix] Fixed ECC memory error.
 2. [Feature] Add VMD & non-hotplug VMD feature.
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E02

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
 3. [Feature] Add system re-driver settings.
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E01

1. [Feature] First release.
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