

BIOS Release Notes

TITLE

SUBJECT: MS44-G20 BIOS Release Notes version [F12](#)
System: [MS44-G20-000](#), [G294-S42-AAP1-000](#), [G294-S42-IAP1-000](#), [G294-S41-AAP2-000](#), [G294-S42-AAP2-000](#), [G294-S43-AAP2-000](#)

About This Release

Build Date: [2025/02/12](#)
BIOS Checksum: [0xB3D386B6 \(flashabl.rom\)](#), [0x52307F41 \(image.bin\)](#), [0x520988FB \(PFR1.bin\)](#), [0x51EFA547 \(PFR2.bin\)](#), [0x92A630C7 \(PFRcap.bin\)](#)
Release Owner: deann.wu

BIOS Components/Contents

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

System hardware configurations supported: MS44-G20

Microcode updates versions:

CPUID	Family	Microcode Update ID
a06d0	Processor GNR A0	10000680
a06d1	Processor GNR B0	01000360
a06d1	Processor GNR R1S B0	0a000080
a06f3	Processor SRF C0	03000270

IPMI support:

AMI Kernel version: [Gbt_Kernel_067_26](#)

Intel CSI/MRC Package version: [3544.P22](#)

OPROM version :

OPROM	Version
AST2600 VGA	1.13.05
INTEL RAID PACKAGE	RSTe 9.0.0.1096

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Installation Notes

IMPORTANT NOTES:

1. Please extract the MS44-G20_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 Slot I/O rom fail.
2. [Feature] Improve KCS protocol.

F11

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1. [Bug Fix] Update Mapping table : R15
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F10

1. [Bug Fix] Update Mapping table : R14
-

F09

1. [Feature] Update Mapping table : R13
-

F08

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
GNR R1S B0 MCU : m_20_a06d1_0a000080
SRF C0 MCU : m_01_a06f3_03000270
 3. [Feature] Update VR solution : A3
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F07

1. [Bug Fix] Fix the bug about device resource related function.
 2. [Feature] Update AST2600 driver : 1.13.05
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F06

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
GNR R1S B0 MCU : m_20_a06d1_1a000080
SRF C0 MCU : m_01_a06f3_03000270
 3. [Feature] Update Mapping table : R12
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F05

1. [Feature] 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 : R11
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F04

1. [Feature] First release for PVT stage.
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D13

1. [Feature] Support GNR R1S B0 stepping CPU

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D12

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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D11

1. [Feature] Update SRF PROD/QS microcode : m_01_a06f3_03000211
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D10

1. [Bug Fix] Fix the bug about PCIe device out of resource.
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D09

1. [Feature] Support SRF PRQ C0 stepping CPU.
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D08

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 : 9.0.0.1096
 4. [Feature] Support dual BIOS check command.
 5. [Bug Fix] Fix the bug about remote setup error.
 6. [Bug Fix] Fix the ECC/PERR/SERR incorrect format.
 7. [Bug Fix] Fix yellow device of com port.
 8. [Bug Fix] Fix the bug about BIOS recovery feature.
 9. [Bug Fix] Fix the bug about incorrect remote setup menu information.
 10. [Bug Fix] Fix the BUG about incorrect SVID.
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D07

1. [Feature] Update VR version : A2.
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D06

1. [Bug Fix] Fixed USB ports show incorrect info.
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D05

1. [Feature] Update re-driver G294-S41_20240514A.
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D04

1. [Feature] Support Power Policy setup item.
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D03

1. [Feature] 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
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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D01

1. [Feature] First DVT release BIOS.
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E26

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
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E25

1. [Bug Fix] Fine tune release note information.
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E24

1. [Bug Fix] Fine tune WOL default setting to "Enable".
2. [Bug Fix] Fix SMBIOS Type 16 incorrect information.
3. [Bug Fix] 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.

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

E23

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

E22

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

E21

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

E20

1. [Feature] Implement USB mapping.

E19

1. [Bug Fix] Fix bug for lan disabled.

E18

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

E17

1. [Bug Fix] Fixed redriver 20240301A error.

E16

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

2. [Feature] Update redriver 20240301A.

E15

1. [Bug Fix] Fixed ECC memory error.

2. [Feature] Add VMD & non-hotplug VMD feature.

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E14

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

E13

1. [Feature] Update MPS VR version : A1.
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E12

1. [Bug Fix] Fixed present pin bifurcation error.
 2. [Bug Fix] Fixed one CPU hang on mapping table.
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E11

1. [Feature] Update redriver v20240111A.
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E10

1. [Bug Fix] Fixed redriver error.
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E09

1. [Feature] Update VROC driver to 9.0.0.1096.
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E08

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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E07

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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E06

1. [Bug Fix] Fine tune OCP related GPIO setting.
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E05

1. [Feature] Add first VR MPS solution.
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BIOS Release Notes

E04

1. [Bug Fix] Fixed G294-S42 redriver.
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E03

1. [Bug Fix] Fixed hang on SMBIOS type 9.
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E02

1. [Bug Fix] Fixed PLX slot hang up.
 2. [Bug Fix] Update mapping table v0.6.
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E01

1. [Feature] First EVT release BIOS.
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