

# BIOS Release Notes

## TITLE

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**SUBJECT:** MA94-FS0 BIOS Release Notes version [F11](#)

**System:** [MA94-FS0-000](#), [R284-A90-AAL2-000](#), [R184-A92-AAJ1-000](#), [R284-A90-AAL2-GB0](#), [R184-A90-AAJ1-000](#), [R284-A90-AAL1-000](#), [R284-A94-AAL1-000](#), [R284-A93-AAL1-000](#), [R284-A94-AAL1-GB0](#), [R284-A91-AAL1-000](#), [R284-A92-AAL2-000](#), [R184-A91-AAJ1-000](#), [R184-A93-AAJ1-000](#), [R284-A92-AAL1-000](#), [E284-A90-AAJ1-000](#), [R284-A92-AAL2-GB0](#), [R184-A91-AAJ1-GB0](#), [R184-A93-AAJ1-GB0](#), [MA94-FS0-00A](#), [R284-A93-AAS1-000](#), [R184-A92-LAJ1-000](#), [R284-A91-AAL2-000](#), [R284-A91-AAL2-000](#), [R284-A91-AAL3-000](#), [R284-A91-AAL3-GB0](#), [R284-A91-AAL2-000](#), [R284-A90-IAL1-000](#)

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### About This Release

**Build Date:** [2024/12/26](#)  
**BIOS Checksum:** [0xB93D0DF3](#) (16M), [0x579A067E](#) (64M)  
**Release Owner:** benson.liu

### BIOS Components/Contents

**Processor stepping(s) supported:** Intel® Granite Rapids-AP, Sierra Forest-AP processor  
**System hardware configurations supported:** MA94-FS0  
**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
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AST2600 VGA	1.13.05
INTEL RAID PACKAGE	RSTe 9.0.0.1230

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MA94-FS0\_F11.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 <DEL> during POST
2. The bios version shows on the first main page

### Known Issues/Workarounds

### Issues fixed in this version

F11

1. [Feature] 1. Update RC 3544.P22 (BKC 2024 WW48)

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2. [Feature] 2. Update microcode:

GNR A0 MCU : m\_95\_a06d0\_10000680

GNR B0 MCU : m\_95\_a06d1\_01000360

SRF C0 MCU : m\_01\_a06f3\_8000270

3. [Bug Fix] 3. Fix the incorrect IDPIN setting.

4. [Bug Fix] 4. Fixed the CXL OS issue.

5. [Feature] 5. Update VR solution to version B8.

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F10

1. [Bug Fix] Fix the bug about device resource related function.

2. [Feature] Update AST2600 driver : 1.13.05

3. [Feature] Update VR version : B7.

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F09

1. [Bug Fix] Fix the issue about incorrect PCIe bifurcation.

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F08

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 : R30.

4. [Feature] Update VR solution : B6.

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F07

1. [Bug Fix] Update Mapping table : R26.

2. [Feature] Add SKU R284-A91-AAL2-000 setting.

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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 : R23.

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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:

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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.

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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] The first PVT release BIOS.

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D19

1. [Feature] Support SRF-AP C0-stepping CPU.

2. [Bug Fix] Fixed bug about showing incorrect USB port info.

3. [Bug Fix] Fix incompliant uCode token name.

4. [Feature] Update SRF uCode to ESx C-0 stepping.

5. [Bug Fix] Fixed USB asl code hub status reporting error issue.

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D18

1. [Bug Fix] Fix the bug about specific NVMe port hotplug fail.

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D17

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

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D16

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

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D15

1. [Bug Fix] Fix the bug about incorrect SVID.

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D14

1. [Feature] Update VR TI version : B4.

2. [Feature] Support dual BIOS check command.

3. [Bug Fix] Fix the bug about remote setup error.

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4. [Bug Fix] Fix the ECC/PERR/SERR incorrect SEL format.
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### D13

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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### D12

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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### D11

1. [Feature] Update VROC driver to 9.0.0.1230.
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### D10

1. [Bug Fix] Fixed USB ports show incorrect info.
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### D09

1. [Feature] Support Power Policy setup item.
  2. [Bug Fix] Update Mapping table version : 18.
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### D08

1. [Bug Fix] Fix the bug about hanging code at 0x92 during VMD enable.
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### D07

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

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3. [Feature] VROC driver : 9.0.0.1088

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D06

1. [Feature] Update TI VR version : B3.

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D05

1. [Bug Fix] Update TI VR version : B2.

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D04

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 : 9.0.0.1088

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D03

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

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D02

1. [Bug Fix] Update mapping table : 17.

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D01

1. [Feature] First release for DVT stage.

2. [Feature] Add TI VR version : B1.

3. [Feature] Update mapping table : 16.

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E13

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

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E12

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

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E11

1. [Bug Fix] Fix the bug about AFU (Linux) script.

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## BIOS Release Notes

### E10

1. [Bug Fix] Update Mapping table version : 15.
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### E09

1. [Bug Fix] Update Mapping table version : 13.
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### E08

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
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### E07

1. [Bug Fix] Fix the bug about swtiching to BIOS2.
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### E06

1. [Feature] Update RC 0029.D87 (BKC 2024 WW07)
  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
  4. [Feature] Update Mapping table setting.
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### E05

1. [Feature] Add Mapping table GPU feature set.
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### E04

1. [Feature] Update RC 0029.D28 (BKC 2024 WW05)
  2. [Feature] Update microcode:  
GNR A0 MCU : m\_01\_a06f0\_80000594
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### E03

1. [Feature] Fine tune MA94-FS0-000 bifurcation.
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### E02

1. [Bug Fix] Fixed present pin bifurcation error.
  2. [Bug Fix] Fixed one CPU hang on mapping table.
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### E01

## BIOS Release Notes

1. [Feature] First EVT BIOS.
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