

BIOS Release Notes

TITLE

SUBJECT: MS04-CE0 BIOS Release Notes version [F09](#)

System: [MS04-CE0-000](#)

About This Release

Build Date: [2024/10/07](#)

BIOS Checksum: [0xB800AC2F](#) (16M), [0x565D85C2](#) (64M)

Release Owner: jim.yang

BIOS Components/Contents

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

System hardware configurations supported: MS04-CE0

Microcode updates versions:

CPUID	Family	Microcode Update ID
a06d0	Processor GNR A0	80000670
a06d1	Processor GNR B0	810002e0
a06d1	Processor GNR R1S B0	8a000030
a06f3	Processor SRF C0	03000211

IPMI support:

AMI Kernel version: [Gbt_Kernel_059_34](#)

Intel CSI/MRC Package version: [34.D65](#)

OPROM version :

OPROM	Version
INTEL 1G PXE	1.5.53
INTEL 1G LAN EFI	8.5.21
AST2600 VGA	1.12.00

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INTEL RAID PACKAGE	RSTe 9.0.0.1096
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Installation Notes

IMPORTANT NOTES:

1. Please extract the MS04-CE0_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. [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.

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3. [Feature] Update Mapping table : R07

F08

1. [Feature] Support GNR R1S B0 stepping CPU

F07

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.

F06

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

F05

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

F04

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

F03

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.

F02

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. [Bug Fix] Fix the bug about BIOS recovery feature.

5. [Bug Fix] Fix the bug about incorrect remote setup menu information.

F01

1. [Feature] Update RC 0031.D97 (BKC 2024 WW19)

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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. [Bug Fix] Fix yellow device of com port.

D13

1. [Feature] Support dual BIOS check command.

2. [Feature] Support ROT region & BIOS information.

D12

1. [Feature] Update Ti VR binary to version "I4FE".

D11

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

D10

1. [Bug Fix] Fix missing security related BIOS setup items.

2. [Bug Fix] Fix boot order is not flushed after AFU update.

3. [Bug Fix] Fix production signed ACTM firmware is not included properly, causing indefinite reboot if SGX is activated.

4. [Feature] Enable KMIP feature.

5. [Feature] Update Ti power special rule to prevent false VR programming error.

D09

1. [Feature] Support Power Policy setup item.

2. [Feature] Update IRROM binary to version "B4".

D08

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

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

3. [Feature] VROC driver : 9.0.0.1096

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D06

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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D05

1. [Bug Fix] Fine tune release note information.
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D04

1. [Feature] Fine tune WOL default setting to "Enable".
 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 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.
 9. [Bug Fix] Fix SMBIOS Type 129 incorrect information.
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D03

1. [Bug Fix] Because release VROC driver 9.0.0.1088 have bug, rollback VROC driver to 9.0.0.1096.
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D02

1. [Feature] Support SRF QS C0 stepping CPU.
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D01

1. [Feature] Enable Ti VR programming, initial VR version is B3 (I2FE).
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E14

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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E13

1. [Feature] Implement USB mapping.
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E12

1. [Feature] Add first VR version : B1.
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E11

1. [Bug Fix] Fix LAN disable error.
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E10

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
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E09

1. [Feature] Add GPU SKU related feature set.
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E08

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
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E07

1. [Bug Fix] Fixed present pin bifurcation error.
 2. [Bug Fix] Fixed one CPU hang on mapping table.
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E06

1. [Bug Fix] Fix an issue that LAN2 on PE1 port F cannot be recognized.
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E05

1. [Feature] Update mapping table to 05.
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E04

1. [Feature] Update VROC driver to 9.0.0.1096.
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E03

1. [Feature] Update RC 2780.D02 (BKC 2023 WW47)

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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.

5. [Bug Fix] Fix minor UEFI shell issue.

E02

1. [Bug Fix] Correct auto bifurcation config.

E01

1. [Feature] First release.
