

# BIOS Release Notes

## TITLE

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**SUBJECT:** MS64-HD0 BIOS Release Notes version [F20](#)  
**System:** [MS64-HD0-000](#), [H274-S61-AAW1-000](#), [H274-S60-AAW1-000](#), [H274-S60-LAW1-000](#), [H274-S61-LAW1-000](#), [H174-S60-LAS1-000](#), [H174-S60-IAS1-000](#), [H274-S61-IAW1-000](#)

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### About This Release

**Build Date:** [2025/02/07](#)  
**BIOS Checksum:** [0xB4E2BBD6](#) (flashabl.rom), [0x533FB461](#) (image.bin), [0x5318F0BE](#) (PFR1.bin), [0x52FF0BD4](#) (PFR2.bin), [0x9266E754](#) (PFRcap.bin)  
**Release Owner:** jim.yang

### BIOS Components/Contents

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

**System hardware configurations supported:** MS64-HD0

**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

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INTEL RAID PACKAGE	RSTe 9.0.0.1096
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### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MS64-HD0\_F20.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

#### F20

1. [Bug Fix] Fix the bug about Slot I/O rom fail.
2. [Feature] Improve KCS protocol.

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## F19

1. [Feature] 1. Update RC 3544.P22 (BKC 2024 WW48)
  2. [Feature] 2. 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] 3. Update Mapping table : R13
  4. [Bug Fix] 4. Fix memory timing default value error.
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## F18

1. [Bug Fix] Fix the bug about device resource related function.
  2. [Feature] Update AST2600 driver : 1.13.05
  3. [Feature] Update VR solution : A8
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## F17

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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## F16

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 : R10
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## F15

1. [Feature] Support GNR R1S B0 stepping CPU
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## F14

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

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4. [Bug Fix] Fix the bug about incorrect ECC CE/UCE sel information.
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### F13

1. [Feature] Update SRF PROD/QS microcode : m\_01\_a06f3\_03000211
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### F12

1. [Bug Fix] Fix the bug about PCIe device out of resource.
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### F11

1. [Feature] Support SRF PRQ C0 stepping CPU.
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### F10

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.
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### F09

1. [Feature] Update MPS IRROM to version "A7".
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### F08

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.
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### F07

1. [Feature] Update MPS IRROM to version "A6".
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### F06

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 : 9.0.0.1096
4. [Bug Fix] Fix yellow device of com port.

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## F05

1. [Bug Fix] Fix the bug about incorrect information on remote BIOS setup menu.
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## F04

1. [Feature] Support dual BIOS check command.
  2. [Feature] Support ROT region & BIOS information.
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## F03

1. [Bug Fix] Fixed USB ports show incorrect info.
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## F02

1. [Bug Fix] Fix missing security related BIOS setup items.
  2. [Bug Fix] Fix production signed ACTM firmware is not included properly, causing indefinite reboot if SGX is activated.
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## F01

1. [Feature] First PVT BIOS release.
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## D21

1. [Bug Fix] Fix the bug about randomly windows crash. (BSOD)
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## D20

1. [Feature] Support Power Policy setup item.
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## D19

1. [Bug Fix] Fix the bug about hanging code at 0x92 during VMD enable.
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## D18

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 : 9.0.0.1096
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## D17

1. [Bug Fix] Fixed ECC sel log error.
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## D16

## BIOS Release Notes

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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### D15

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

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### D14

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 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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### D13

1. [Feature] Update MPS IRROM to version "A5".

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### D12

1. [Feature] Update mapping table to version "07".

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### D11

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

2. [Feature] Update mapping table to version "06".

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### D10

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

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### D09

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

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GNR A0 MCU : m\_01\_a06f0\_80000600

4. [Feature] VROC driver : 9.0.0.1088
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D08

1. [Feature] Implement USB mapping.
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D07

1. [Bug Fix] Update VR solution version : A4.
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D06

1. [Bug Fix] Fix LAN disable error.
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D05

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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D04

1. [Feature] Update VR to version "A3".
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D03

1. [Feature] Add GPU SKU related feature set.
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D02

1. [Feature] Add primitive Redfish support.
  2. [Feature] Add feature that auto enable VMD for non-hotplug ports.
  3. [Bug Fix] Fix VPP and BPB bugs.
  4. [Bug Fix] Fix missing ECC correctable memory SEL log.
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D01

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] Update MPS VR version : A2
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E10

1. [Feature] Update MPS IRROM bin to version "I004".

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### E09

1. [Bug Fix] Fix incorrect GPIO bifurcation mapping.
  2. [Feature] Update mapping table to version 04.
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### E08

1. [Bug Fix] Fixed present pin bifurcation error.
  2. [Bug Fix] Fixed one CPU hang on mapping table.
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### E07

1. [Bug Fix] Fine tune OCP vGPIO reset setting.
  2. [Bug Fix] Fix SVID coverage issue.
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### E06

1. [Feature] Update VR binary to I100.
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### E05

1. [Feature] Update VROC driver to 9.0.0.1096.
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### E04

1. [Feature] Kernel Update.
  2. [Bug Fix] Fix minor UEFI shell issue.
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### E03

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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### E02

1. [Bug Fix] Fix OCP bifurcation issue.
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### E01

1. [Feature] First release.
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