

BIOS Release Notes

TITLE

SUBJECT: MH12-HD0 BIOS Release Notes version [F34](#)

System: [MH12-HD0-00](#), [H252-3C0-00](#)

About This Release

Build Date: [2024/08/06](#)

BIOS Checksum: [0xBF9DE842](#) (32M), [0xA333D473](#) (64M)

Release Owner: deann.wu

BIOS Components/Contents

Processor stepping(s) supported: Intel® Ice Lake-SP processors

System hardware configurations supported: MH12-HD0

Microcode updates versions:

CPUID	Family	Microcode Update ID
606a4	IceLake L-0	0b000280
606a5	IceLake C-0	0c0002f0
606a6	IceLake XCC D-0	0d0003e7

IPMI support:

AMI Kernel version: [Gbt_Kernel_079_03](#)

Intel CSI/MRC Package version: [30.P47](#)

SPI Descriptor version: [04.04.04.603](#)

OPROM version :

OPROM	Version
AST2500 VGA	1.03.05
INTEL RAID PACKAGE	RSTe 8.0.0.4006

Installation Notes

IMPORTANT NOTES:

1. Please extract the MH12-HD0_[F34](#).zip to a bootable diskette that use FAT/FAT32 format

BIOS UPDATE INSTRUCTIONS FOR EFI Shell:

BIOS Release Notes

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

F34

1. [Bug Fix] Fix PKfail issue.
-

F33

1. [Feature] Fine tune BMC LAN IPv6 configuration page.
-

F32

1. [Feature] Update RC 30.P47 (IceLake BKC 2024.3 IPU-PV)
2. [Feature] Update microcode:

IceLake CPU XCC D0 Production : m_87_606a6_0d0003e7

3. [Feature] Include Vulnerabilities in EDK2 NetworkPkg for CVE-2023-45236, CVE-2023-45237.

BIOS Release Notes

4. [Feature] Include INTEL-SA-01097 for CVE-2024-24968.
 5. [Feature] Include INTEL-SA-01083 for CVE-2024-24853.
 6. [Feature] Include INTEL-SA-01103 for CVE-2024-23984.
 7. [Feature] Include INTEL-SA-01100 for CVE-2024-24980.
 8. [Feature] Include INTEL-SA-01079 for CVE-2024-21820, CVE-2024-23918.
 9. [Feature] Include INTEL-SA-01071 for CVE-2024-21829, CVE-2024-21781, CVE-2023-43753.
-

F31

1. [Feature] Improve the feature of BMC IPv6 and IPv4 Network setting.
-

F30

1. [Feature] Update for AMI security

SA50216: CVE-2023-39539

SA50216: CVE-2023-39538

F29

1. [Feature] Update RC 30.P41 (IceLake BKC 2024.1 IPU-PV)

2. [Feature] Update microcode:

IceLake CPU XCC D0 Production : m_87_606a6_0d0003d1

3. [Feature] Update RSTe : v8.0.0.4006
4. [Feature] Update VROC : v8.0.0.4006
5. [Feature] Update ME : SPS_E5_04.04.04.603.0
6. [Feature] Update for security 2024.1 IPU

INTEL-SA-00950: CVE-2023-23583

INTEL-SA-00960: CVE-2023-22655

INTEL-SA-00923: CVE-2023-35191

7. [Feature] Update for AMI security

SA50236: CVE-2023-5678

SA50229: CVE-2024-3817

SA50229: CVE-2024-2650

8. [Feature] Update for security of PixieFail: vulnerabilities in Tianocore's EDK II IPv6 network stack.

CVE-2023-45229

CVE-2023-45230

CVE-2023-45231

CVE-2023-45232

CVE-2023-45233

CVE-2023-45234

CVE-2023-45235

BIOS Release Notes

F28

1. [Feature] Improve ECC error logging feature set.
-

F27

1. [Feature] Update RC 30.P26 (IceLake BKC 2023.3 IPU-PV).
2. [Feature] Update DCPMM UEFI driver v02.00.00.3887.
3. [Feature] Update microcode:

IceLake CPU XCC D0 Production : m_87_606a6_0d0003a5

4. [Feature] Update RSTe : v8.0.0.4006.
 5. [Feature] Update VROC : v8.0.0.4006.
 6. [Feature] Update ME : SPS_E5_04.04.04.500.0.
 7. [Feature] Update for security AMI SA50170.
-

F26

1. [Bug Fix] Fix the bug about incorrect setup item name.
-

F25

1. [Feature] Update RC 30.P19 (IceLake BKC 2023.2 IPU-PV)
2. [Feature] Update DCPMM UEFI driver v02.00.00.3887
3. [Feature] Update microcode:

IceLake CPU XCC D0 Production : m_87_606a6_0d000390

4. [Feature] Update RSTe : v7.8.0.1012
 5. [Feature] Update VROC : v7.8.0.1012
 6. [Feature] Update ME WilsonCity : SPS_E5_04.04.04.301.0
 7. [Feature] Update for security 2023.1 IPU INTEL-SA-00700: CVE-2022-21216.
 8. [Feature] Update for security 2023.1 IPU INTEL-SA-00717: CVE-2022-32231, CVE-2021-0187, CVE-2022-26837.
 9. [Feature] Update for security 2023.1 IPU INTEL-SA-00718: CVE-2022-36348
 10. [Feature] Update for security 2023.1 IPU INTEL-SA-00730: CVE-2022-33972
 11. [Feature] Update for security 2023.1 IPU INTEL-SA-00738: CVE-2022-33196, CVE-2022-33196
 12. [Feature] Update for security 2023.1 IPU INTEL-SA-00767: CVE-2022-38090
 13. [Feature] Update for security AMI SA50162: CVE-2022-34301, CVE-2022-34302, CVE-2022-34303
 14. [Feature] Update for security AMI SA50130
-

F24

1. [Bug Fix] Fix the bug about remote BIOS item on WEBUI.
-

BIOS Release Notes

F23

1. [Bug Fix] Fix the bug about incorrect information on Redfish.
-

F22

1. [Feature] Update RC 29.P30 (IceLake BKC 2022 WW40)
 2. [Feature] Update DCPMM UEFI driver v02.00.00.3887 (IceLake BKC 2022 WW40)
 3. [Feature] Update microcode:
IceLake CPU XCC D0 Production : m_87_606a6_0d00037b
 4. [Feature] Update RSTe : v7.7.6.1004
 5. [Feature] Update VROC : v7.7.6.1004
 6. [Feature] Update ME WilsonCity : SPS_E5_04.04.04.202.0
-

F21

1. [Feature] Update RC 27.P52 (IceLake BKC 2021 WW52)
 2. [Feature] Update DCPMM UEFI driver v02.00.00.3885 (IceLake BKC 2021 WW52)
 3. [Feature] Update microcode:
IceLake LCC CPU : m_97_606a0_80000031
IceLake HCC CPU : m_87_606a4_8b0003f0
IceLake XCC C0 CPU : m_87_606a5_8c0002f0
IceLake XCC D0 CPU : m_87_606a6_8d000280
IceLake CPU HCC Production : m_87_606a4_0b000280
IceLake CPU XCC C0 Production : m_87_606a5_0c0002f0
IceLake CPU XCC D0 Production : m_87_606a6_0d000331
 4. [Feature] Update RSTe : v7.7.0.1054
 5. [Feature] Update VROC : v7.7.0.1054
 6. [Feature] Update ME WilsonCity : SPS_E5_04.04.04.062.0
 7. [Bug Fix] Fix the bug about Setup menu incorrect information.
-

F20

1. [Bug Fix] Fix the bug about setup menu item : Active Video.
-

F18

1. [Feature] Update VR to A02.
-

F17

1. [Feature] Update VR version A01.
-

F16

1. [Feature] Add Ti solution.
-

BIOS Release Notes

F15

1. [Bug Fix] Fix the bug about changing Memory voltage by setup item.
 2. [Feature] Change the setup item PowerPolicy default setting to [Standard].
-

F14

1. [Bug Fix] Fix some bug about SMBIOS table.
-

F13

1. [Bug Fix] Fix the bug about disable Turbo mode fail.
 2. [Bug Fix] Fix the bug about NVMe hotplug fail.
-

F12

1. [Bug Fix] Fix the VROC incorrect name.
 2. [Bug Fix] Fix incorrect information in subsystem page.
-