

BIOS Release Notes

TITLE

SUBJECT: MZ12-HD3 BIOS Release Notes version R25_F01
System: MZ12-HD3-00,G242-Z11-00

About This Release

Build Date: 2024/07/11
BIOS Checksum: 0x9AF2328D (32M)
Release Owner: Auto.Build(Ray.Xu)

BIOS Components/Contents

Processor stepping(s) supported: AMD Rome / Naples Processors
System hardware configurations supported: MZ12-HD3-00
PCB Version: 1.x
Microcode updates versions:

CPUID	Family	Microcode Update ID
Rome A0	Family 17h Model 30-3Fh	08300027
Rome B0	Family 17h Model 30-3Fh	0830107B

IPMI support:
AMI Kernel version: 5.14_RomeCrb_0ACMK029
AGESA PI version: RomePI 1.0.0.H
OPROM version:

OPROM	Version
AST2500	1.09.00

Installation Notes

IMPORTANT NOTES:

1. Please extract the MZ12-HD3_R25_F01.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.

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3. Enter \Tool\afuwin32 and execute f.bat for Windows 32bit.
Or
Enter \Tool\afuwin64 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

1. Windows OS does not support 256 or more logical.
Windows 2019 can update KB44512534 to support it.

item	OS	Win2019	Win2016
IOMMU		Enable ※	Enable KB4022723
SMT Control		Enable KB4512534	Disable

※When SMT Enabled, IOMMU need to set Enabled too.

SMT Control: AMD Simultaneous Multi-Threading Technology

KB4022723: Support IOMMU on Windows 2016.

KB4512534: Support SMT on Windows 2019.

2. NVIDIA CUDA didn't support IOMMU.

Issues fixed in this version

R25

1. [Feature] Fine tune BMC IPv6 and IPv4 Network.

R24

1. Enhance Endless Retry PXE feature.

R23

1. Update AGESA 1.0.0.H.
2. Security update: CVE-2023-39538, CVE-2023-39539, CVE-2023-45229, CVE-2023-45230, CVE-2023-45231, CVE-2023-45232, CVE-2023-45233, CVE-2023-45234, CVE-2023-45235.

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R22

1. Update AGESA 1.0.0.G.
 2. Update Microcode 0830107A for CVE-2023-20593 issue.
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R21

1. Updated AGESA 1.0.0.F.
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R20

1. Updated AGESA 1.0.0.E.
-

R19

1. Update AGESA 1.0.0.D.
 2. Support ROT 1712.
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R18

1. Modify redriver value 20220322.
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R17

1. Fine tune flash tool for dual BIOS.
 2. Support NVME LED control for system.
 3. Modify BMC major number format in setup menu.
-

R16

1. Update AGESA 1.0.0.C.
 2. Fixed afu check second BIOS rom failed.
 3. Fixed Qlogic MAC issue in WebUI.
-

R15

1. Added Redfish - System Inventory.
 2. Fixed non-persistent boot issue.
 3. Added Setup Flash.
 4. Update SMBIOS Type130/131.
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R14

1. Update AGESA 1.0.0.A.
2. Adjusted system slot redriving.
3. Fixed HDD show name issue.

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4. Changed SMT & IOMMU default to [Disabled]
5. Adjusted GENZ_2 Lanes fixed to x4x4x4x4.
6. Fixed U2_2A/B detect issue.

R13

1. Update AGESA 1.0.0.8.
2. Updated Redfish feature.
3. Security update for CVE-2020-10255 and CVE-2020-10713.
4. Fixed after clean CMOS system hang issue
5. Fixed when PCIE error occurs, there is no pause and warning message on the POST screen.
6. Fixed BIOS crash when used non-specification PSU device.
7. Fixed WHQL SMBIOS/USB issue.
8. Fixed RTC fail issue.
9. Fixed NVME Timeout when keep hold Ctrl + Alt + Del
10. Adjusted Wakeup events not support with ROT systems.
11. Fine Tune BIOS item Default string.

R12

1. Adjusted system G242-Z11-00 redriver value.

R11

1. Update IR to A02.

R10

1. Update AGESA 1.0.0.7.
2. Change SMT & IOMMU default to Auto & Enable.
3. Update Redfish feature.
4. Adjusted PCI sequence.
5. Fixed PCIe device Sequence.
6. Fixed Server manager setup setting message box lost.
7. Adjusted BMC Version String Format.
8. Fixed system wait long time randomly when boot in OS.
9. Fixed redfish load boot order default fail.
10. Modify USB device tree

R09

1. Update AGESA 1.0.0.6.
2. Fixed SMBIOS Type 10.
3. Fixed NVDIMM hang at POST screen.
4. Fixed NVDIMM had exclamation mark in Windows.

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5. Fixed X540 X550 PXE boot failed in Legacy mode.
6. Runtime disable turbo boost.
7. Added PCIE slot link speed control items.
8. Adjusted boot option label.
9. Added G242-Z11-00 system support.
10. Update IR to A01.
11. Added Erp Lot 9 Item.
12. Fixed SVID issue.
13. Fixed IPMI command change boot order fail issue.
14. Fixed Shell screen re-flash issue.
15. Adjusted boot option maximum.
16. Fixed LAN Card detect issue.
17. Update Redfish feature.
18. Added onboard VGA default output priority option in UEFI mode.
19. BIOS Ready Timing change.
20. Fixed flash Naples BIOS crash issue.

R08

1. Adjusted G152-Z10 re-driver value.
2. Fine tune PCIe link speed behavior.

R07

1. Fine tune PCIe link speed behavior.

R06

1. Fixed NVIDIA and AMD GPU card driver BSOD issue.
2. Adjusted G152-Z10 re-driver Value.
3. Adjusted Setup Menu defaults.

R05

1. Update AGESA 1.0.0.4
2. Fine tune PCIe link speed behavior.

R04

1. Update AGESA 1.0.0.3.
2. Adjusted Setup Menu default.
3. Update 1024 IRROM A03.

R03

1. Modify USB device tree.

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2. Modify SMBIOS type131 data for Windows 2019 server HLK fail.
3. Default disable 'HD Audio' for Windows 2019 server HLK fail.
4. Fix 1 DIMM per channel ECC display issue.
5. Fixed onboard LAN disabled the Intel LAN card will disable issue.
6. Adjusted R162-Z10/R162-Z11 Hot Plug table.
7. Adjusted Legacy Video Select Page.
8. Fixed 4 port LAN card detect issue.
9. Adjusted G152-Z10 redriver value.

R02

1. Add the remote modify BIOS setup function.
2. Implement GIGABYTE Quick Setting.
3. Adjusted SEL sensor number.
4. Added remote setup items.
5. Fixed install GPU card hang up issue.
6. Fixed ASPEED Err log issue.
7. Adjusted FCH Common Options page.
8. Adjusted AMD Mem Configuration Status page.
9. Adjusted G242-Z10-00 Slot Speed fixed to Gen3.
10. Add SKU G152-Z10-00.
11. Adjusted G152-Z10-00/G242-Z10-00/R162-Z10-00/R162-Z11-00 SATA redriver.

R01

1. First Release.
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