

BIOS Release Notes

TITLE

SUBJECT: MZ12-HD0 BIOS Release Notes version R44_F01
System: MZ12-HD0-00,MZ12-HD8-00,H252-Z10-00,H252-Z11-00,H252-Z12-00,
H242-Z10-00,H242-Z11-00,H242-Z11-BY

About This Release

Build Date: 2026/09/07
BIOS Checksum: 0x9D886833 (32M)
Release Owner: Ian.Liu

BIOS Components/Contents

Processor stepping(s) supported: AMD Rome / Naples Processors
System hardware configurations supported: MZ12-HD0-00, MZ12-HD8-00
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	0830107D

IPMI support:
AMI Kernel version: 5.14_RomeCrb_0ACMK040
AGESA PI version: RomePI 1.0.0.Q
OPROM version:

OPROM	Version
AST2500	1.09.00

Installation Notes

IMPORTANT NOTES:

1. Please extract the MZ12-HD0_R44_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.

BIOS Release Notes

2. Use Command Shell.
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.

OS item	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

R44

1. [Feature] Update AGESA 1.0.0.Q.
2. [Security Update] CVE-2026-0893, CVE-2025-61963, CVE-2025-0008, CVE-2025-54502.

R43

1. [Feature] Update AGESA 1.0.0.Q.

R42

1. Release bios.
-

BIOS Release Notes

R41

1. [Fix] Solve Intel Omni LAN Card will loss after reboot.
 2. [Feature] Update AMI code base.
-

R40

1. [Feature] Update AGESA 1.0.0.P.
 2. Support BIOS item loaded default.
 3. Support BIOS send FailurePredicted to BMC.
-

R39

1. [Security] CVE-2025-3770.
-

R38

1. [Feature] Update AGESA 1.0.0.N
-

R37

1. [Security] CVE 2024-13176, CVE 2025-22830, CVE 2024-7344 CVE 2025-3052
-

R36

1. [Feature] Update AGESA 1.0.0.M
 2. [Feature] Release the Apply Vlan Coniguration item.
 3. [Feature] Added AMI solution to fix the problem that NUMA cannot be changed in BCP Pro.
-

R35

1. Update AGESA 1.0.0.L.
 2. [Security update] CVE-2024-36347, CVE-2024-56161, CVE-2023-45236, CVE-2023-45237, CVE-2024-38796, CVE-2024-0179, CVE-2024-21925
-

R34

1. [Feature] Update AGESA 1.0.0.K.
 2. [Feature] Add Disable Block Sid and SHA256 PCR Bank GBTGSI default token.
 3. [Security Update] CVE-2020-10255, CVE-2021-28216, CVE-2021-38575, CVE-2023-45236, CVE-2023-45237, CVE-2024-0179, CVE-2024-21924, CVE-2024-21925.
-

R33

1. [Feature] Update AGESA 1.0.0.J.
2. [Feature] Remove unsupport redfish items:

BIOS Release Notes

IPv6 BMC Lan Option (IPMI601)

IPv6 BMC Lan IP Address Source (IPMI602)

Secure Boot (SECB001)

Secure Boot Mode (SECB002)

Factory Key Provision (SECB008)

Option ROM (SECB004)

Removable Media (SECB005)

Fixed Media (SECB006)

3. [Security Update] CVE-2023-2650, CVE-2023-3817, CVE-2023-5678, CVE-2023-31315.

R32

1. [Security Update] PKfail issue.
2. [Feature] Optimize BcpPro tool compatibility.

R31

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

R30

1. Enhance Endless Retry PXE feature.

R29

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.

R28

1. Fine tune SCE tool compatibility.

R27

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

R26

1. Updated AGESA 1.0.0.F.
-

BIOS Release Notes

R25

1. Update AGESA 1.0.0.E.
 2. Added H242-Z11-BY system support.
-

R24

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

R23

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

R22

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

R21

1. Remove some PCIE option rom control setup item.
 2. Added MB support MZ12-HD8.
-

R20

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

R19

1. Updated AGESA 1.0.0.A
-

R18

1. Updated AGESA 1.0.0.9
 2. Fixed allocating tons of resource requirement when SR-IOV is enabled.
 3. Fine tune Redfish remote BIOS setup funtion.
-

R17

1. Fixed when PCIE error occurs, there is no pause and warning message on the POST

BIOS Release Notes

screen.

2. Fixed BIOS crash when used non-specification PSU device.
3. Fixed WHQL SMBIOS/USB issue.
4. Fixed RTC fail issue.
5. Fixed NVME Timeout when keep hold Ctrl + Alt + Del
6. Adjusted Wakeup events not support with ROT systems.
7. Fine Tune BIOS item Default string.

R16

1. Updated 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

R15

1. Fixed system wait long time randomly when boot in OS.
2. Fixed redfish load boot order default fail.

R14

1. Adjusted BMC Version String Format.
2. Fixed BMC IP setting static IP hang issue.

R13

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.

R12

1. Fixed IPMI Persistent Boot issue.
2. Adjusted boot option maximum.
3. Update Redfish feature.
4. Core Performance Boost disable fail.
5. Added onboard VGA default output priority option in UEFI mode.
6. BIOS Ready Timing change.
7. Fixed flash Naples BIOS crash issue.

R11

BIOS Release Notes

1. Adjusted boot option maximum.

R10

1. Update AGESA 1.0.0.6.
2. Fine tune Redfish item.
3. Added Erp Lot 9 Item.
4. Fixed SVID issue.
5. Fixed IPMI command change boot order fail issue.
6. Fixed Shell screen re-flash issue.

R09

1. Update AGESA 1.0.0.5.
2. Fixed SMBIOS Type 10.
3. Fixed NVDIMM hang at POST screen.
4. Fixed NVDIMM had exclamation mark in Windows.
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.

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.

BIOS Release Notes

3. Update 1024 IRROM A03.

R03

1. Modify USB device tree.
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.
-