

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ12-HD6 BIOS Release Notes version R09\_F00  
**System:** MZ12-HD6-00,G242-Z12-00

### About This Release

**Build Date:** 2024/07/11  
**BIOS Checksum:** 0x9D1DC257 (32M)  
**Release Owner:** Auto.Build(Ray.Xu)

### BIOS Components/Contents

**Processor stepping(s) supported:** AMD Rome Processors  
**System hardware configurations supported:** MZ12-HD6-00  
**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 |
|---------|---------|
| AST2600 | 1.11.03 |

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MZ12-HD6\_R09\_F00.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 <DEL> 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          | Win2019             | Win2016             |
|-------------|---------------------|---------------------|
| item        |                     |                     |
| IOMMU       | Enable ※            | Enable<br>KB4022723 |
| SMT Control | Enable<br>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

R09

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

R08

1. Enhance Endless Retry PXE feature.

R07

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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R06

1. Update AGESA 1.0.0.G.
  2. Update Microcode 0830107A for CVE-2023-20593 issue.
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R05

1. Updated AGESA 1.0.0.F.
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R04

1. Update AGESA 1.0.0.E.
  2. Optimizing PCIe compatibility for G242-Z12-00 v20221102
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R03

1. Update AGESA 1.0.0.D.
  2. Support ROT 1712.
  3. Add redriver for G242-Z12-00 v20220505.
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R02

1. Fine tune flash tool for dual BIOS.
  2. Support NVME LED control for system.
  3. Modify BMC major number format in setup menu.
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R01

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