

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ12-HD7 BIOS Release Notes version M16\_R14  
**System:** MZ12-HD7-C4,G152-Z11-C4,G152-ZL0-00,G152-Z12-00,MZ12-HD7-00,  
G152-Z11-SU

### About This Release

**Build Date:** 2024/05/29  
**BIOS Checksum:** 0x8F24DD15 (32M)  
**Release Owner:** Justin.Wu

### BIOS Components/Contents

**Processor stepping(s) supported:** AMD Milan / Rome Processors  
**System hardware configurations supported:** MZ12-HD7-C4, MZ12-HD7-00  
**PCB Version:** 3.x  
**Microcode updates versions:**

CPUID	Family	Microcode Update ID
Milan A0	Family 19h Model 00-0Fh	0A000033
Milan B0	Family 19h Model 00-0Fh	0A001079
Milan B1	Family 19h Model 00-0Fh	0A0011D3
Milan B2	Family 19h Model 00-0Fh	0A001236

**IPMI support:**  
**AMI Kernel version:** 5.22\_MilanCrb\_0ACOU024  
**AGESA PI version:** MilanPI 1.0.0.C  
**OPROM version:**

OPROM	Version
AST2500	1.10.00

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MZ12-HD7\_M16\_R14.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.

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## 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

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

M16

1. Enhance Endless Retry PXE feature.

M15

1. Update AGESA 1.0.0.C.
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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### M14

1. Update AGESA 1.0.0.A.
  2. Update Rome ucode 0830107A for CVE-2023-20593 issue.
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### M13

1. Optimize PCIE compatibility.
  2. Update AGESA 1.0.0.A.
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### M12

1. Fixed recovery mode video device detect issue.
  2. Optimize PCIE compatibility.
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### M11

1. Update AGESA 1.0.0.9.
  2. Update redriver value for G152-ZL0-00 20221110.
  3. Fixed PCIE inventory show incorrect LAN issue.
  4. Modify MAX Memory label.
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### M10

1. Update redriver value for G152-Z12-00 20221101.
  2. Support NVME Security erase control item.
  3. Add G152-Z11-SU SKU.
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### M09

1. Modify above 4G memory resource.
  2. Add redriver for G152-ZL0-00 20220823.
  3. Optimize system stability with TPM.
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### M08

1. Add redriver for G152-ZL0-00 20220707.
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### M07

1. Update AGESA 1.0.0.7.
  2. Support ROT 1712.
  3. Add G152-Z12-00, G152-ZL0-00 system support.
  4. Add G152-Z12-00, G152-ZL0-00 redriver.
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### M06

# BIOS Release Notes

1. Fine tune PCIe Resource.

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## M05

1. Update AGESA 1.0.0.6.
2. Update microcode.

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## M04

1. Update microcode.
2. Set BIOS setup [Power Quick Setting] default to [Standard] mode.
3. Fixed redfish lost character.
4. Fixed the SVID number on some PCIE.

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## M03

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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## M02

1. Update AGESA 1.0.0.4.
2. Fixed afu check second BIOS rom failed.
3. Fixed Qlogic MAC issue in WebUI.

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## M01

1. First Release.
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