

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ32-AR0 BIOS Release Notes version M23\_R40  
**System:** MZ32-AR0-00,MZ32-AR1-00,MZ32-001-A1,R152-Z30-00,R152-Z31-00,  
R152-Z32-00,R152-Z33-00,R272-Z30-00,R272-Z31-00,R272-Z32-00,  
R272-Z34-00,R272-Z33-FL,R272-Z33-OB,W282-001-JN,S452-Z30-00,  
S472-Z30-00

### About This Release

**Build Date:** 2024/10/01  
**BIOS Checksum:** 0x8BA1CC41 (32M)  
**Release Owner:** Auto.Build(Nelson.Lin)

### BIOS Components/Contents

**Processor stepping(s) supported:** AMD Milan/Rome Processors  
**System hardware configurations supported:** MZ32-AR0-00, MZ32-AR1-00, MZ32-001-A1  
**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	0A00107A
Milan B1	Family 19h Model 00-0Fh	0A0011D5
Milan B2	Family 19h Model 00-0Fh	0A001238

**IPMI support:**  
**AMI Kernel version:** 5.22\_MilanCrb\_0ACOU027  
**AGESA PI version:** MilanPI 1.0.0.D  
**OPROM version:**

OPROM	Version
AST2500	1.10.00

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MZ32-AR0\_M23\_R40.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

## BIOS Release Notes

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\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 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

M23

1. [Feature] Update AGESA 1.0.0.D.
2. [Security Update] CVE-2023-2650, CVE-2023-3446, CVE-2023-3817, CVE-2023-5363, CVE-2023-5678, CVE-2023-31315, CVE-2023-31355, CVE-2024-21978, CVE-2024-21980.

M22

1. [Security Update] PKfail issue.

## BIOS Release Notes

2. [Feature] Optimize BcpPro tool compatibility.

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M21

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

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M20

1. Enhance Endless Retry PXE feature.

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M19

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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M18

1. Fixed SEL ecc locate wrong location.
2. Optimizing System M.2 link capability

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M17

1. Optimizing specific system PCIE compatibility.

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M16

1. Fixed NVME couldn't secure erase.

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M15

1. Optimizing PCIE compatibility.

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M14

1. Updated AGESA 1.0.0.A.
2. Optimizing PCIE compatibility.

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M13

1. Update AGESA 1.0.0.9.
2. Close NVME LED control for system R152-Z32, R272-Z32, S452-Z30.

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M12

## BIOS Release Notes

1. Fixed graphic output type: OnboardVGA fail.
2. Modify SLOT1 Max Link Capability.
3. Finetune JEDEC manufacture ID 0x8CAB define.
4. Added R272-Z33-OB system support.

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### M11

1. Update AGESA 1.0.0.7.
2. Support SATA SGPIO.
3. Fixed legacy VGA card hang issue.

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### M10

1. Update AGESA 1.0.0.6.
2. Update microcode.

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### M09

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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### M08

1. Fine tune flash tool for dual BIOS.
2. Support NVME LED control for system.
3. Modify BMC major number format in setup menu.
4. Added S472-Z30-00 system support.

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### M07

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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### M06

1. Fixed SMBIOS broken.

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### M05

1. Updated AGESA 1.0.0.3.
2. Added redriver for MB 2.1.
3. Added RedFish - System Inventory.
4. Added setup flash.

## BIOS Release Notes

5. Update SMBIOS type 130/131.
6. Added MZ32-001 support.
7. Fixed system hang without lan oprom.

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### M04

1. Update AGESA 1.0.0.2.
2. Fixed system reboot hang with TPM module.

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### M03

1. Update AGESA 1.0.0.1.
2. Fixed Redfish upload fail.
3. Adjusted BIOS items in remote setup on redfish.
4. Added ISCSI function.
5. Fixed some graphic card will hang on Legacy mode.
6. Fixed some lan card hang code.
7. Changed Slot 7 default width to x4 x4 x4 x4 when slot is empty.

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### M02

1. Update AGESA 1.0.0.0.

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### M01

1. First release.
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