

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ33-AR0 BIOS Release Notes version F31  
**System:** MZ33-AR0-000,S453-Z30-AAV1-000

### About This Release

**Build Date:** 2024/08/09  
**BIOS Checksum:** 0xBFEEFC710 (32M)  
**Release Owner:** Auto.Build(Candy.Wu)

### BIOS Components/Contents

**Processor stepping(s) supported:** AMD Genoa Processors  
**System hardware configurations supported:** MZ33-AR0-000  
**PCB Version:** 1.x  
**Microcode updates versions:**

CPUID	Family	Microcode Update ID
Genoa B0	Family 19h Model 10-1Fh	0x0A101020
Genoa B1	Family 19h Model 10-1Fh	0x0A101148
Genoa B2	Family 19h Model 10-1Fh	0x0A101248
Bergamo A0	Family 19h Model 10-1Fh	0x0AA00009
Bergamo A1	Family 19h Model 10-1Fh	0x0AA00116
Bergamo A2	Family 19h Model 10-1Fh	0x0AA00215

**IPMI support:**  
**AMI Kernel version:** 5.27\_GenoaCrb\_0ACQT025  
**AGESA PI version:** GenoaPI 1.0.0.C  
**OPROM version:**

OPROM	Version
AST2600	1.12.00

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MZ33-AR0\_F31.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\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

## Issues fixed in this version

### F31

1. [Security Update] PKfail issue.
2. [Feature] Optimize WebUI HDD Inventory information.
3. [Feature] Optimize CX7 WubUI Inventory information.

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### F30

1. [Feature] Fine tune BMC IPv6 and IPv4 Network.
2. Remove item "Boot mode select".
3. Remove not available Redfish items:  
Secure Boot (SECB001)  
Boot mode select (FBO001)  
ACPI SLIT local inter-CXL distance (Genoa128)  
ACPI SLIT remote inter-CXL distance (Genoa129)  
IPv6 BMC Lan Option (IPMI601)  
IPv6 BMC Lan IP Address Source (IPMI602)
4. Change item "Endless Retry Boot" Redfish AttributeName from "Genoa834" to "GBT0168" .
5. Update GBT Channel Genoa AGESA 1.0.0.C.
6. Secure update: CVE-2023-31355, CVE-2024-21978, CVE-2024-21980, CVE-2023-31315

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### F29

1. Optimize GBT Channel Genoa Agesa 1.0.0.C.

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F28

1. Update GBT Channel Genoa AGESA 1.0.0.C.
2. Secure update: CVE-2024-21965, CVE-2023-31351, CVE-2023-20582, CVE-2023-31340, CVE-2024-21978, CVE-2024-21980, CVE-2023-31355, CVE-2023-5678, CVE-2023-45236, CVE-2023-45237, CVE-2023-2650, CVE-2023-3817, CVE-2023-31315

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F27

1. Update GPU Secure function.
2. Enhance PCIe compatibility.
3. Enhance endless boot feature.

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F26

1. Optimize AC Loss feature. (In Redfish function: only support command "PowerRestorePolicy")

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F25

1. Enhance PCIe compatibility.

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F24

1. Optimize Redfish compatibility.

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F23

1. Update GBT Channel Genoa AGESA 1.0.0.B.
2. Support Endless Retry PXE feature.
3. Secure update: CVE-2023-31346, CVE-2023-31347, 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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F22

1. Optimize default year 2024.
2. Fixed X710 LAN Mac issue in Legacy mode.
3. Modify MCIO bifurcation .
4. Enhance NVMe Hotplug feature.

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F21

1. Add MCIO bifurcation option.

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## F20

1. Fixed yellow bang in windows.
2. Fixed Redfish item fail issue.
3. Enhance Redfish feature.
4. Enhance NVMe hotplug feature.
5. Added Power btn control item.
6. Optimize SMBIOS compatibility.
7. Update AGESA 1.0.0.A.

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## F19

1. Enhance Red fish function.

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## F18

1. Fixed WHLK issue.

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## F17

1. Optimize SMBIOS compatibility.
2. Optimize PCIe LAN card compatibility.
3. Optimize system inventory compatibility.
5. Update AGESA 1.0.0.9.
6. Fixed system full DIMM reboot issue.
7. Fixed BIOS recovery issue.

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## F16

1. Remove U2\_P0\_G2A, U2\_P0\_G3A & U2\_P0\_G3B present function.

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## F15

1. Fixed system reboot when error hold on.
2. Fixed yellow bang in windows.

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## F14

1. Adjust U2\_P0\_G3A and U2\_P0\_G3B support behavior.

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## F13

1. Update AGESA 1.0.0.8.
2. Enable MCTP feature.
3. Modify SATA Mode item default from "AHCI AS ID 0X7904" to "ACHI"

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### F12

1. Adjusted BMC Watch Dog timer.
2. Optimize Chelsio cards compatibility.

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### F11

1. Support Present function
2. Support MCIO G0.G1.G2 only X4X4X4X4 function/G3 SATA&X4X4X4X4.

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### F10

1. Update Inventory Mapping system.
2. Fixed COM Port mouse is not working.
3. Added DIMM Manufacturer ID 0x1A08.
4. Fixed NVME LED control failed.
5. Fixed SATA LED Control failed.
6. Adjust the display order of NVME devices list.

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### F09

1. Support Bergamo CPU.

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### F08

1. Updated AGESA 1.0.0.5.

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### F07

1. Fixd PCIE\_4 show issue on Web UI.

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### F06

1. Add S453-Z30-AAV1-000 System.
2. Fixed NVME hot plug function.
3. Agesa 1.0.0.3.
4. Fixed U2\_P0\_G0 Gen4 speed issue.

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### F05

1. pcie slot\_6 default auto.

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### F04

1. PCIE&MCIO default x4x4x4x4.

## BIOS Release Notes

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F03

1. Update AGESA 1.0.0.2.
2. Update Microcode.
3. Support Bergamo CPU.

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F02

1. Update AGESA 1.0.0.1

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F01

- 1.First Release.
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