

# BIOS Release Notes

## TITLE

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**SUBJECT:** MZ93-FS0 BIOS Release Notes version F31  
**System:** CDCR114-00,MZ93-FS0-000,R183-Z90-AAD1-000,R183-Z90-AAD2-000,  
R183-Z90-LAD1-000,R183-Z91-AAD1-000,R183-Z91-AAD2-000,  
R183-Z92-AAD1-000,R183-Z92-AAD2-000,R183-Z92-AAD3-000,  
R283-Z90-AAD1-000,R283-Z90-AAD2-000,R283-Z90-AAD3-000,  
R283-Z91-AAD1-000,R283-Z91-AAD2-000,R283-Z92-AAD1-000,  
R283-Z92-AAE1-000,R283-Z92-AAE2-000,R283-Z92-AAE3-000,  
E283-Z90-AAD1-000,R183-Z90-AAV1-000,R183-Z90-AAV2-000,  
R183-Z91-AAV1-000,R183-Z91-AAV2-000,R183-Z92-AAV1-000,  
R183-Z92-AAV2-000,R183-Z92-AAV3-000,R283-Z90-AAV1-000,  
R283-Z90-AAV2-000,R283-Z90-AAV3-000,R283-Z91-AAV1-000,  
R283-Z91-AAV2-000,R283-Z92-AAJ1-000,R283-Z92-AAJ2-000,  
R283-Z92-AAJ3-000,R283-Z92-AAV1-000,E283-Z90-AAV1-000,  
R183-Z92-SW-LS-001,R283-Z90-SW-LS-002,R283-Z91-SW-LS-003,  
R183-Z90-AAE1-000,R283-Z90-AAF1-000,R183-Z90-AAV2-SC0

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### About This Release

**Build Date:** 2025/02/26  
**BIOS Checksum:** 0xBBA65A41 (32M)  
**Release Owner:** Auto.Build(Candy.Wu)

### BIOS Components/Contents

**Processor stepping(s) supported:** AMD Genoa Processors  
**System hardware configurations supported:** MZ93-FS0-000  
**PCB Version:** 1.x,3.x  
**Microcode updates versions:**

CPUID	Family	Microcode Update ID
Genoa B0	Family 19h Model 10-1Fh	0x0A101020
Genoa B1	Family 19h Model 10-1Fh	0x0A101154
Genoa B2	Family 19h Model 10-1Fh	0x0A10124F
Bergamo A0	Family 19h Model 10-1Fh	0x0AA00009
Bergamo A1	Family 19h Model 10-1Fh	0x0AA00116
Bergamo A2	Family 19h Model 10-1Fh	0x0AA00219

**IPMI support:**  
**AMI Kernel version:** 5.27\_GenoaCrb\_0ACQT027  
**AGESA PI version:** GenoaPI 1.0.0.E  
**OPROM version:**

OPROM	Version
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AST2600	1.13.01
VR	E104

## Installation Notes

### IMPORTANT NOTES:

1. Please extract the MZ93-FS0\_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.

### 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. [Feature] Update AGESA 1.0.0.E.
2. [Security] CVE-2024-56161, CVE-2024-36347, CVE-2024-38796

F30

1. [Feature] Support KMIP.
2. [Fix] Fixed the IPv6 gateway configuration issue on the Server Manager setup page.

F29

## BIOS Release Notes

- 1.[Feature] Update AGESA 1.0.0.D.
- 2.[Fix] Fix the network configuration switching issue in the BIOS Server Manager setup.
- 3.[Fix] Fix the issue where having too many installed devices causes the system to hang at the BIOS logo screen.

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F28

1. [Feature] Optimize system compatibility.

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F27

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

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F26

1. Added system R183-Z90-AAV2-SC0 Support.

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F25

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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F24

1. Optimize GBT Channel Genoa Agesa 1.0.0.C.

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F23

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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F22

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

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F21

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

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F20

1. Enhance PCIe compatibility.

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F19

1. Optimize Redfish compatibility.

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F18

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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F17

1. Optimize default year 2024.
2. Fixed X710 LAN Mac issue in Legacy mode.

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F16

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.
8. Optimize SATA LED compatibility.

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F15

1. Update AGESA 1.0.0.A.

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2. Fixed yellow bang in windows.
3. Added R283-Z90-AAF1-000 system support
4. Update system inventory v25.

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### F14

1. Optimize SMBIOS compatibility.
2. Optimize PCIe LAN card compatibility.
3. Optimize system inventory compatibility.

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### F13

1. Update AGESA 1.0.0.9.
2. Fixed system full DIMM reboot issue.
3. Fixed BIOS recovery issue.
4. Optimize SMBIOS compatibility.
5. Update system inventory v23.

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### F12

1. Added R183-Z90-AAE1-000 system support.
2. Update system inventory v22.

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### F11

1. Update AGESA 1.0.0.8.
2. Enable MCTP feature.
3. Modify SATA Mode item default from "AHCI AS ID 0X7904" to "ACHI"
4. Fixed IPMI ECC SEL location.
5. Update system inventory v21.

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### F10

1. Adjusted BMC Watch Dog timer.
2. Optimize Chelsio cards compatibility.
3. Optimize USB ACPI topology.
4. Modify system SATA configuration page.
5. Modify R183-Z91-AAD1-000, R183-Z91-AAV1-000, E283-Z90-AAD1-000, E283-Z90-AAV1-000 system hot-plug function.
6. Modify PCIe compatibility.

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### F09

1. Updated AGESA 1.0.0.7.
2. Added R183-Z92-SW-LS-001, R283-Z90-SW-LS-002, R283-Z91-SW-LS-003 system support.

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3. Update inventory v19.
4. Fixed SATA Configuration Page issue.

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### F08

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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### F07

1. Updated AGESA 1.0.0.5.

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### F06

1. Added R183-Z90-LAD1-000 system support.
2. Optimize VR for MZ93 series.

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### F05

1. Modify system hot-plug table.
2. Modify OCP SLOT compatibility.

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### F04

1. Update AGESA 1.0.0.3
2. Modify POST report behavior match new SPEC.
3. Modify PCIe Subsystem Page.
4. Fixed PCIE FRU issue.

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### F03

1. Update AGESA 1.0.0.2.
  2. Update Microcode.
  3. Support Bergamo CPU.
  4. Fixed PCIe Link Speed item fail issue.
  5. Fixed R183-Z92-AAD1 Hotplug function for slot4.
  6. Modify OCP present with OCP SPEC
  7. Modify USB redriver.
  8. Modify Serial Port Console Redirection item to meet spec.
  9. Modify GPU system item default with boot issue.
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## BIOS Release Notes

F02

1. Added new system R183-Z90-AAV1-000, R183-Z90-AAV2-000, R183-Z91-AAV1-000, R183-Z91-AAV2-000, R183-Z92-AAV1-000, R183-Z92-AAV2-000, R183-Z92-AAV3-000, R283-Z90-AAV1-000, R283-Z90-AAV2-000, R283-Z90-AAV3-000, R283-Z91-AAV1-000, R283-Z91-AAV2-000, R283-Z92-AAJ1-000, R283-Z92-AAJ2-000, R283-Z92-AAJ3-000, R283-Z92-AAV1-000, R283-Z93-AAL1-000, E283-Z90-AAV1-000 support .

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F01

1. First Release.

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