

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ93-FS0 BIOS Release Notes version F28  
**System:** R283-Z93-AAF1-000,R283-Z93-AAL1-000

### About This Release

**Build Date:** 2024/11/27  
**BIOS Checksum:** 0xBCE4F12E (32M)  
**Release Owner:** Auto.Build(Hex.Jan)

### 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	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\_0ACQT026  
**AGESA PI version:** GenoaPI 1.0.0.D  
**OPROM version:**

OPROM	Version
AST2600	1.13.01
VR	E104

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MZ93-FS0\_F28.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

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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

F28

- 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.

F27

1. [Feature] GBTGSI support.
2. [Feature] AMI Bcp Pro support.
3. [Feature] Optimize system compatibility.

F26

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

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)

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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-

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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.
7. Optimize SATA LED compatibility.

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## F15

1. Update AGESA 1.0.0.A.
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. Optimize SMBIOS compatibility.
2. Optimize PCIe LAN card compatibility.
3. Optimize system inventory compatibility.
4. Update AGESA 1.0.0.9.
5. Fixed system full DIMM reboot issue.
6. Fixed BIOS recovery issue.

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## F11

1. Fixed system reboot when error hold on.
  2. Fixed yellow bang in windows.
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## BIOS Release Notes

F10

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