

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ93-FS1 BIOS Release Notes version F20  
**System:** R283-Z97-AAF1-000,R283-Z97-AAL1-000

### About This Release

**Build Date:** 2025/02/27  
**BIOS Checksum:** 0xBBF636E9 (32M)  
**Release Owner:** Auto.Build(Candy.Wu)

### BIOS Components/Contents

**Processor stepping(s) supported:** AMD Genoa Processors  
**System hardware configurations supported:** MZ93-FS1-000  
**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 |
|---------|---------|
| AST2600 | 1.13.01 |
| VR      | G004    |

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MZ93-FS1\_F20.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

## BIOS Release Notes

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

F20

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

F19

- 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.

F18

1. [Fixed] AMI BCP pro tool issue.
2. [Feature] Optimize system compatibility.

F17

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

F16

## BIOS Release Notes

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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### F15

1. Optimize GBT Channel Genoa Agesa 1.0.0.C.

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### F14

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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### F13

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

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### F12

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

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### F11

1. Enhance PCIe compatibility.

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### F10

1. Optimize Redfish compatibility.
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# BIOS Release Notes

## F09

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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## F08

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

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## F07

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 Inventory v13.
8. Optimize MCIO\_P0\_P0 PCIe compatibility.

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## F06

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.
7. Update Inventory v11.

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## F05

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

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## F04

1. Optimize PCIE compatibility.
2. Optimize System compatibility.
3. Resume GPU default setting.

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## F03

## BIOS Release Notes

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. Remove R283-Z96-AAE4-V10, R283-Z96-AAJ4-V10 system support.
5. Optimize IPMI ECC SEL location.
6. Optimize PCIE compatibility.

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### F02

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

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### F01

1. First Release.
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