

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ13-SH0 BIOS Release Notes version F23  
**System:** MZ13-SH0-000,H253-Z10-AAU1-000,H253-Z10-LAU1-000,  
H253-Z10-IAU1-000,H253-Z10-AAP1-000,H253-Z10-LAP1-000,  
H253-Z10-IAP1-000,H253-Z10-AAM1-000,H253-Z10-LAM1-000,  
H253-Z10-IAM1-000,H253-Z11-AAP1-000

## About This Release

**Build Date:** 2025/02/26  
**BIOS Checksum:** 0xBD1B6544 (32M)  
**Release Owner:** Auto.Build(Candy.Wu)

## BIOS Components/Contents

**Processor stepping(s) supported:** AMD Genoa Processors  
**System hardware configurations supported:** MZ13-SH0-000  
**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	G002

## Installation Notes

### IMPORTANT NOTES:

1. Please extract the MZ13-SH0\_F23.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.

## BIOS Release Notes

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

F23

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

F22

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

F21

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

F20

1. [AGESA Updatae] Update AGESA 1.0.0.D.

F19

## BIOS Release Notes

1. [Feature] Support GCT\_CUSTOMIZE\_BOOT\_OPTION\_SUPPORT.

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F19a

1. [Feature] Added H253-Z11-AAP1-000 system support.

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F18

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

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F17

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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F16

1. Optimize GBT Channel Genoa Agesa 1.0.0.C.

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F15

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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F14

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

# BIOS Release Notes

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F13

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

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F12

1. Enhance PCIe compatibility.

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F11

1. Optimize Redfish compatibility.

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F10

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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F09

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

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F08

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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F07

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

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F06

1. Update AGESA 1.0.0.9.
2. Fixed system full DIMM reboot issue.

## BIOS Release Notes

3. Fixed BIOS recovery issue.
4. Optimize SMBIOS compatibility.

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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. Update AGESA 1.0.0.8.
2. Enable MCTP feature.
3. Modify SATA Mode item default from "AHCI AS ID 0X7904" to "ACHI".
4. Optimize DRAM information Page.

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### F03

1. Adjusted BMC Watch Dog timer.
2. Optimize Chelsio cards compatibility.
3. Modify SATA configuration page.
4. Optimize OCP slot compatibility.
5. Adjusted NVME hot-plug function.
6. Update system inventory v15.

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### F02

1. Update SATA Configuration Page.

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### F01

1. First release.
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