

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ23-G20 BIOS Release Notes version F29  
**System:** MZ23-G20-000,G293-Z20-AAP1-000,G293-Z21-AAP1-000,  
G293-Z22-AAP1-000,G293-Z23-AAM1-000,TO15-Z20-IA01-000,  
G294-Z21-AAP2-000,G294-Z22-AAP2-000

### About This Release

**Build Date:** 2025/02/26  
**BIOS Checksum:** 0xBDF3FC7D (32M)  
**Release Owner:** Auto.Build(Candy.Wu)

### BIOS Components/Contents

**Processor stepping(s) supported:** AMD Genoa Processors  
**System hardware configurations supported:** MZ23-G20-000  
**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 |

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MZ23-G20\_F29.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

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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

F29

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

F28

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

F27

- 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.

F26

1. [Feature] Release final AGESA 1.0.0.C.
2. [Feature] Optimize system SKU name.
3. [Feature] Optimize NVME hotplug order.

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F25

1. [Feature] Support identify system SKU for modify above 4G size.
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F24

1. [Feature] Remove console out solution for build fail.
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F23

1. [Feature] Modify system name from G294-Z21-AA21-000 and G294-Z22-AA21-000 to G294-Z21-AAP1-000 and G294-Z22-AAP1-000
  2. [Feature] Update Inventory v21.
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F22

1. [Security Update] PKfail issue.
  2. [Feature] Optimize WebUI HDD Inventory information.
  3. [Feature] Optimize CX7 WebUI Inventory information.
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F21

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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F20

1. Optimize GBT Channel Genoa Agesa 1.0.0.C.
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F19

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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F18

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

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F17

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

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F16

1. Enhance PCIe compatibility.
2. Update Inventory v20.
3. Support G294-Z21-AA21-000 and G294-Z22-AA21-000 system.

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F15

1. Optimize Redfish compatibility.

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F14

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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F13

1. Update Inventory\_v18.

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F12

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

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F11

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.

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6. Optimize SMBIOS compatibility.
7. Update AGESA 1.0.0.A.

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### F10

1. Optimize SMBIOS compatibility.
2. Optimize PCIe LAN card compatibility.
3. Optimize system inventory compatibility.
4. Update Inventory version 16.
5. Fixed BIOS Recovery.

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### F09

1. Update Inventory version 15.
2. Modify setup manual SATA information
3. Update Re-driver for G293-Z23 system sku.
4. Modify BIOS item default.
5. Update AGESA 1.0.0.8
6. Modify USB Tree for WHQL

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### F08

1. Support G293-Z23-AAM1 system.
2. Optimize Chelsio cards compatibility.

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### F07

1. Fixed TO15-Z20 system hotplug fail.
2. Support Linux SATA hotplug.
3. Fine tune BMC WDT time
4. Update Inventory version v11.
5. Fine tune item behavior.

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### F06

1. Support TO15-Z20-IA01-000 system.

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### F05

1. Updated AGESA 1.0.0.7.
2. Update Inventory version v10.
3. Optimize system NVMe hotplug behavior.

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### F04

1. Update Inventory Mapping system.

## BIOS Release Notes

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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F03

1. Update Inventory version 08.

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F02

1. Updated AGESA 1.0.0.5.

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F01

1. PVT first release.
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