

BIOS Release Notes

TITLE

SUBJECT: MZ23-G20 BIOS Release Notes version F25
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-AAP1-000,G294-Z22-AAP1-000

About This Release

Build Date: 2024/10/04
BIOS Checksum: 0xBF641C79 (32M)
Release Owner: Nelson.Lin

BIOS Components/Contents

Processor stepping(s) supported: AMD Genoa Processors
System hardware configurations supported: MZ23-G20-000
PCB Version: 1.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_0ACQT025
AGESA PI version: GenoaPI 1.0.0.C
OPROM version:

OPROM	Version
AST2600	1.12.00

Installation Notes

IMPORTANT NOTES:

1. Please extract the MZ23-G20_F25.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 during POST
2. The bios version shows on the first main page

Known Issues/Workarounds

Issues fixed in this version

F25

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

F24

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

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.

F22

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

F21

1. [Feature] Fine tune BMC IPv6 and IPv4 Network.
2. Remove item "Boot mode select".

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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

F20

1. Optimize GBT Channel Genoa Agesa 1.0.0.C.

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

F18

1. Update GPU Secure function.

2. Enhance PCIe compatibility.

3. Enhance endless boot feature.

F17

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

F16

1. Enhance PCIe compatibility.

2. Update Inventory v20.

3. Support G294-Z21-AA21-000 and G294-Z22-AA21-000 system.

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.

F13

1. Update Inventoty_v18.

F12

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

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

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.

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

F08

1. Support G293-Z23-AAM1 system.

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2. Optimize Chelsio cards compatibility.

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.

F06

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

F05

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

F04

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.

F03

1. Update Inventory version 08.

F02

1. Updated AGESA 1.0.0.5.

F01

1. PVT first release.
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