

BIOS Release Notes

TITLE

SUBJECT: MZ43-G20 BIOS Release Notes version F39
System: MZ43-G20-000,G293-Z40-AAP1-000,G293-Z41-AAP1-000,
G293-Z42-AAP1-000,G293-Z42-IAP1-000,G293-Z42-IAP1-C40,
G293-Z43-AAP1-000,TO15-Z40-AA01-000,TO15-Z40-IA01-000,
G294-Z41-AAP2-000,G294-Z42-AAP1-000,G294-Z42-AAP1-LM0,
G294-Z42-AAP2-000,G294-Z43-AAP2-000

About This Release

Build Date: 2025/03/18
BIOS Checksum: 0xBD257D2C (32M)
Release Owner: Neil.Lu

BIOS Components/Contents

Processor stepping(s) supported: AMD Genoa Processors
System hardware configurations supported: MZ43-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 MZ43-G20_F39.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.

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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 during POST
2. The bios version shows on the first main page

Known Issues/Workarounds

Issues fixed in this version

F39

1. [Support] Support G294-Z42-AAP1-LM0 system.

F38

1. [Support] Support G293-Z42-IAP1-C40 system.

F37

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

F36

1. [Feature] Optimize system compatibility.

F35

1. [Feature] Update redriver value for G293-Z40 system.

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F34

1. [Feature] Support KMIP.
 2. [Fix] Fixed the IPv6 gateway configuration issue on the Server Manager setup page.
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F33

1. [Feature] re-driver for G293-Z42 system.
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F32

1. [Feature] Update inventory v24.
 2. [Feature] Enhance device compatibility.
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F31

- 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.
 4. [Feature] Optimize system SKU name.
 5. [Feature] Update inventory v23 for system SKU name change.
 6. [Feature] Optimize NVME hotplug for system SKU name change.
 7. [Feature] Optimize Re-Driver for system SKU name change.
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F30

1. Fixed LAN MAC Disabled fail.(Boadcom57416 lanmac show erro)
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F29

1. [Feature] Release for Turin PVT.
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F28

1. [Feature] Supoort GCT_CUSTOMIZE_BOOT_OPTION_SUPPORT.
 2. [Feature] Added IPv 4/6 PXE/HTTP default token support.
 3. [Feature] Added Boot Time/Quiet Mode default token support.
 4. [Featuer] support AMI BCP PRO tool.
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F27

1. [Feature] Modify SKU name from G294-Z41-AA21-000, G294-Z42-AA21-000 and G294-Z43-AA21-000 to G294-Z41-AAP1-000, G294-Z42-AAP1-000 and G294-Z43-AAP1-000
2. [Feature] Update inventory v20.

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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)
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

F24

1. Optimize GBT Channel Genoa Agesa 1.0.0.C.

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

F22

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

F21

1. Optimize AC Loss feature. (In Redfish function: only support command "PowerRestorePolicy")
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F20

1. Enhance PCIe compatibility.
 2. Support G294-Z41-AA21-000, G294-Z42-AA21-000 and G294-Z43-AA21-000 system.
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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-2023-39539, 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. Update AGESA 1.0.0.A.
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F15

1. Optimize SMBIOS compatibility.
 2. Optimize PCIe LAN card compatibility.
 3. Optimize system inventory compatibility.
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F14

1. Update AGESA 1.0.0.9.
 2. Fixe recovery fail.
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F13

1. Fine tune NVME hotplug

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2. Update redriver for G293-Z42 system.
3. Support new system G293-Z42-IAP1-000
4. Update Inventory Mapping system v17.
5. Modify BIOS item default.

F12

1. Update AGESA 1.0.0.8
2. Modify BIOS item default.
3. Fine tune USB tree for WHQL

F11

1. Optimize Chelsio cards compatibility.

F10

1. Fine tune setup item.
2. Fine tune PCIe link speed.

F09

1. Updated AGESA 1.0.0.7.
2. Update Inventory Mapping system.
3. Modify PCIe Option ROM define.
4. Update SMBIOS.
5. Optimize system NVME hotplug behavior

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.

F07

1. Enable TO15-Z40-AA01 and TO15-Z40-IA01 auto bifurcation.
2. Support TO15-Z40-IA01 NVME hotplug.

F06

1. Updated inventory version 10.
2. Re-move SATA re-driver for SAMSUN SATA M.2 couldn't deect and FIO Stress

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issue.

3. Fixed COM Port mouse couldn't use under Win2022.
4. Fine tune AC loss item options.
5. Updated inventory version 12.

F05

1. Updated AGESA 1.0.0.5.

F04

1. Support BIOS item to control halt on or not when PCIe or Memory error has injected.
2. Fixed show wrong DDR location and information order when memory error is injected.

F03

1. Fine tune PCIe WebUI information.

F02

1. Fine tune NVME hotplug.
2. Fine tune PCIe slot for mapping table.
2. Fine tune PCIe slot name.

F01

1. PVT First Released.
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