

BIOS Release Notes

TITLE

SUBJECT: MZ42-G20 BIOS Release Notes version R31_F00
System: MZ42-G20-00,G292-Z40-00,G292-Z42-00,G292-Z43-00,G292-Z44-00,
G292-Z46-00,G292-Z43-ICU1-000,G292-Z43-ICM1-000,
G292-Z44-SW-IT-002

About This Release

Build Date: 2025/01/23
BIOS Checksum: 0xA05E961A (32M)
Release Owner: Nelson.Lin

BIOS Components/Contents

Processor stepping(s) supported: AMD Rome Processors
System hardware configurations supported: MZ42-G20-00
PCB Version: 1.x,2.x
Microcode updates versions:

CPUID	Family	Microcode Update ID
Rome A0	Family 17h Model 30-3Fh	08300027
Rome B0	Family 17h Model 30-3Fh	0830107C

IPMI support:
AMI Kernel version: 5.14_RomeCrb_0ACMK033
AGESA PI version: RomePI 1.0.0.K
OPROM version:

OPROM	Version
AST2500	1.09.0

Installation Notes

IMPORTANT NOTES:

1. Please extract the MZ42-G20_R31_F00.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
5. After bios flash finish, system must Power-Off to have the changes take effect.

BIOS UPDATE INSTRUCTIONS FOR Windows:

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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

1. Windows OS does not support 256 or more logical.
Windows 2019 can update KB44512534 to support it.

OS item	Win2019	Win2016
IOMMU	Enable ※	Enable KB4022723
SMT Control	Enable KB4512534	Disable

※When SMT Enabled, IOMMU need to set Enabled too.

SMT Control: AMD Simultaneous Multi-Threading Technology

KB4022723: Support IOMMU on Windows 2016.

KB4512534: Support SMT on Windows 2019.

2. NVIDIA CUDA didn't support IOMMU.

Issues fixed in this version

R31

1. [Feature] Fixed Pcie slot3 Gen4 speed issue.

R30

1. [Feature] Update AGESA 1.0.0.K.
2. [Feature] Add Disable Block Sid and SHA256 PCR Bank GBTGSI default token.
3. [Security Update] CVE-2020-10255, CVE-2021-28216, CVE-2021-38575, CVE-2023-45236, CVE-2023-45237, CVE-2024-0179, CVE-2024-21924, CVE-2024-21925.

R29

1. [Feature] Update AGESA 1.0.0.J.

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2. [Feature] Remove unsupport redfish items:

IPv6 BMC Lan Option (IPMI601)

IPv6 BMC Lan IP Address Source (IPMI602)

Secure Boot (SECB001)

Secure Boot Mode (SECB002)

Factory Key Provision (SECB008)

Option ROM (SECB004)

Removable Media (SECB005)

Fixed Media (SECB006)

3. [Security Update] CVE-2023-2650, CVE-2023-3817, CVE-2023-5678, CVE-2023-31315.

R28

1. [Security Update] PKfail issue.

2. [Feature] Optimize BcpPro tool compatibility.

R27

1. [Feature] Fine tune BMC IPv6 and IPv4 Network.

R26

1. Enhance Endless Retry PXE feature.

R25

1. Update AGESA 1.0.0.H.

2. Security update: 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.

R24

1. Update AGESA 1.0.0.H.

2. Fine tune PCIe link speed.

R23

1. Update VR firmware.

R22

1. Update AGESA 1.0.0.G.

2. Update Microcode 0830107A for CVE-2023-20593 issue.

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R21

1. Updated AGESA 1.0.0.F.
2. Optimize Network compatibility.

R20

1. Update AGESA 1.0.0.E.
2. Modify NVMe link speed capability.
3. Fixed PXE issue of the Legacy mode.
4. Close NVME LED control for system G292-Z40.
5. Add G292-Z44-SW-IT-002 SKU.

R19

1. Update AGESA 1.0.0.D.
2. Support ROT 1712.
3. Support SATA SGPIO control for system.

R18

1. Fine tune flash tool for dual BIOS.
2. Support NVME LED control for system.
3. Modify BMC major number format in setup menu.

R17

1. Update AGESA 1.0.0.C.
2. Fixed afu check second BIOS rom failed.
3. Fixed Qlogic MAC issue in WebUI.

R16

1. Added Redfish - System Inventory.
2. Fixed non-persistent boot issue.
3. Added Setup Flash.
4. Update SMBIOS Type130/131.

R15

1. Fixed flash tool code 38 error.
2. Fixed TPM hang code issue.
3. Fine tune G292-Z46 redriver.
4. Skip some LAN card without the UEFI OpRom
5. Update AGESA 1.0.0.A.

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R14

1. Added IRROM version 0009.(With ISL power 2020/12/04).
2. Fine tun PCI lanes for 2.0 PCB.
3. Fine tun SMBIOS info for 2.0 PCB.
4. Fine tun PCI slot item.
5. Add G292-Z46 SKU.
6. Add G292-Z46 redriver.

R13

1. Update AGESA 1.0.0.9.

R12

1. Fixed when PCIE error occurs, there is no pause and warning message on the POST screen.
2. Fixed WHQL SMBIOS/USB issue.
3. Fixed RTC fail issue.
4. Fixed NVME Timeout when keep hold Ctrl + Alt + Del.
5. Fixed SATA display abnormal in the middle port.
6. Fine Tune BIOS item Default string.

R11

1. Fixed Legacy mode PXE boot fail.
2. Add PCI SERR/PERR display in post.

R10

1. Updated AGESA 1.0.0.8.
2. Updated Redfish feature.
3. Fixed after clean CMOS system hang issue.
4. Fixed full VGA device Legacy hang issue.
5. Fixed BMC IP setting static IP hang issue.
6. Fixed OS boot long time issue.

R09

1. Update AGESA 1.0.0.7.
2. Update Redfish feature for Secure boot.
3. Fixed Server manager setup setting message box lost.
4. Fixed PCIe device sequence.
5. Adjust the item setting.
6. Adjusted BMC Version String Format.

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R08

1. Adjusted boot option maximum.
2. Update Redfish feature.
3. Core Performance Boost disable fail.
4. Added onboard VGA default output priority option in UEFI mode.
5. BIOS Ready Timing change.
6. Fixed flash Naples BIOS crash issue.
7. Fixed IPMI Persistent Boot issue.

R07

1. Fixed hot-plug issue.

R06

1. Update AGESA 1.0.0.6.
2. Add ErP Lot9 function.
3. Fixed SVID issue.
4. Fixed IPMI command change boot order fail issue.
5. Fixed Shell screen re-flash issue.
6. Fine tune Redfish item.

R05

1. Update AGESA 1.0.0.5.
2. Fixed POST screen show wrong memory test error in CPU1 channel J.
3. Add SMBIOS Type 10.
4. Fixed NVDIMM hang at POST screen.
5. Fixed NVDIMM had exclamation mark in Windows.
6. Fixed X540 X550 PXE boot failed in Legacy mode.
7. Runtime disable turbo boost.
8. Added PCIE slot link speed control items.
9. Adjusted boot option label.
10. Adjusted XGMI Link Speed and remove unsupported options.

R04

1. Adjusting GENZ_1 and GENZ_2 present ping.

R03

1. Adjusting slot detection causes card loses issue.
2. Fixed internal HDD hang post issue.

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R02

1. Update AGESA1.0.0.4.
2. Fine tune PCIe link value.
3. Fine tune slot name show on WebUI.
4. Fix GPU resource issue.

R01

1. Support AGESA1.0.0.3.
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