

BIOS Release Notes

TITLE

SUBJECT: MZ42-G20 BIOS Release Notes version M21_R27
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: 2024/07/11
BIOS Checksum: 0x8B831FA1 (32M)
Release Owner: Auto.Build(Ray.Xu)

BIOS Components/Contents

Processor stepping(s) supported: AMD Milan / Rome Processors
System hardware configurations supported: MZ42-G20-00
PCB Version: 3.x
Microcode updates versions:

| CPUID | Family | Microcode Update ID |
|----------|-------------------------|---------------------|
| Milan A0 | Family 19h Model 00-0Fh | 0A000033 |
| Milan B0 | Family 19h Model 00-0Fh | 0A001079 |
| Milan B1 | Family 19h Model 00-0Fh | 0A0011D3 |
| Milan B2 | Family 19h Model 00-0Fh | 0A001236 |

IPMI support:
AMI Kernel version: 5.22_MilanCrb_0ACOU024
AGESA PI version: MilanPI 1.0.0.C
OPROM version:

| OPROM | Version |
|---------|---------|
| AST2500 | 1.10.00 |

Installation Notes

IMPORTANT NOTES:

1. Please extract the MZ42-G20_M21_R27.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

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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

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

M21

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

M20

1. Enhance Endless Retry PXE feature.

M19

1. Update AGESA 1.0.0.C.

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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.

M18

1. Release for Rome release.

M17

1. Fine tune PCIe link speed.
2. Update AGESA 1.0.0.C
3. Default year set to 2024

M16

1. Update VR firmware

M15

1. Update AGESA 1.0.0.A.
2. Update Rome ucode 0830107A for CVE-2023-20593 issue.

M14

1. Update AGESA 1.0.0.9.
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.

M13

1. Updated AGESA 1.0.0.7.
2. Support ROT 1712.
3. Support SATA SGPIO control for system.
4. Support NVME LED control for system.

M12

1. Add redriver for G292-Z44.
2. Add patch for Phison re-driver.
3. Modify BIOS setup default value.
4. Modify G292-Z44 re-driver.(G292-Z44_phison_0303)
5. Modify MMIO resource.

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M11

1. Update AGESA 1.0.0.6.
2. Update microcode.

M10

1. Update microcode.
2. Set BIOS setup [Power Quick Setting] default to [Standard] mode.
3. Fixed redfish lost character.
4. Fixed the SVID number on some PCIE.

M09

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

M08

1. Update AGESA 1.0.0.4.
2. Fixed afu check second BIOS rom failed.
3. Fixed Qlogic MAC issue in WebUI.

M07

1. Modify PCI auto function.

M06

1. Added Redfish - System Inventory.
2. Fixed non-persistent boot issue.
3. Added Setup Flash.
4. Updated SMBIOS Type130/131.
5. Updated AGESA 1.0.0.3

M05

1. Add BMC device patch.

M04

1. Update AGESA 1.0.0.2.
2. Fix TPM hard reset will dead loop.
3. Skip some LAN card without the UEFI OpRom.
4. Add G292-Z46-00 SKU.

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5. Add a patch to the Micorsemi chip,
6. Modify G292-Z46 redriver value.

M03

1. Update AGESA 1.0.0.1.
2. Fixed Redfish upload fail.
3. Adjusted BIOS items in remote setup on redfish.
4. Added ISCSI function.
5. Fixed some graphic card will hang on Legacy mode.
6. Fixed some lan card hang code.

M02

- 1.Updated AGESA 1.0.0.0.

M01

1. First release.
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