

BIOS Release Notes

TITLE

SUBJECT: MZ22-G20 BIOS Release Notes version R31_F01
System: MZ22-G20-00,G292-Z20-00,G292-Z21-NJ,G292-Z22-00,G292-Z24-00,
G292-Z2A-NJ,G292-Z20-SW-IT-001

About This Release

Build Date: 2024/05/30
BIOS Checksum: 0xA1922B27 (32M)
Release Owner: Auto.Build(Justin.Wu)

BIOS Components/Contents

Processor stepping(s) supported: AMD Rome / Naples Processors
System hardware configurations supported: MZ22-G20-00
PCB Version: 1.x
Microcode updates versions:

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

IPMI support:
AMI Kernel version: 5.14_RomeCrb_0ACMK029
AGESA PI version: RomePI 1.0.0.H
OPROM version:

OPROM	Version
AST2500	1.09.0

Installation Notes

IMPORTANT NOTES:

1. Please extract the MZ22-G20_R31_F01.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:

1. Insert bios update USB flash drive.

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2. Use Command Shell.
3. Enter \Tool\Win32 and execute f.bat for Windows 32bit.
Or
Enter \Tool\Win64 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. Enhance Endless Retry PXE feature.

R30

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.

R29

1. Update AGESA 1.0.0.G.
2. Update Microcode 0830107A for CVE-2023-20593 issue.

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R28

1. Updated AGESA 1.0.0.F.

R27

1. Added G292-Z20-SW-IT-001 system support.

R26

1. Adjust Prefetchable memory setup item in Chipset -> Fabric Ressource.
2. Update AGESA 1.0.0.E.
3. Added G292-Z2A-NJ system support.

R25

1. Fixed Onboard LAN controller fails.
2. Adjust the MMIO resource size.

R24

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

R23

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

R22

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

R21

1. Fixed TPM hang code issue.
2. Skip some LAN card without the UEFI OpRom
3. Update AGESA 1.0.0.A.

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R20

1. Update IRROM version 8084 for PCB v1.1.(With IR power 2021/01/20).

R19

1. Support PCB v1.1 feature.

R18

1. Update AGESA 1.0.0.9.

R17

1. Fixed WHQL SMBIOS/USB issue.
2. Fixed RTC fail issue.
3. Fixed NVME Timeout when keep hold Ctrl + Alt + Del.
4. Fixed SATA display abnormal in the middle port.
5. Fine Tune BIOS item Default string.

R16

1. Add PCI SERR/PERR display in post.

R15

1. Updated AGESA 1.0.0.8.
2. Updated Redfish feature.
3. Fixed after clean CMOS system hang issue.

R14

1. Modify PCIe device sequence.

R13

1. Fixed BMC IP setting static IP hang issue.
2. Fixed OS boot long time issue.

R12

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.

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5. Adjusted BMC Version String Format.

R11

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

R10

1. Add workaround for specific device.

R09

1. Fixed hot-plug issue.

R08

1. Update AGESA 1.0.0.6.
2. Add ErP Lot9 function.
3. Add Gen4 riser re-driver value.
4. Fixed SVID issue.
5. Fixed IPMI command change boot order fail issue.
6. Fixed Shell screen re-flash issue.
7. Fine tune Redfish item.

R07

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.

R06

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1. Adjusting slot detection causes card loses issue.

R05

1. Fix GPU resource issue.

R04

1. Update AGESA 1.0.0.4.
2. Fine tune SMBIOS info.
3. Fine tune Power Policy Quick Setting default value.

R03

1. Update AGESA 1.0.0.3.

R02

1. Change IRROM file. (2019/10/02)
2. Fixed Legacy LAN MAC issue.
3. Fixed ASPEED yellow bang issue.
4. Fixed ECC error memory slot issue.
5. Fine tune PCIe link speed behavior.
6. Fix the BMC about ECC display (Channel, DIMM).
7. Display the CECC or UECC on post report.
8. Fix 32MB hang 0x00d1.
9. Skip memory SMI error, when SMT control set disabled.

R01

1. First Release Base MZ22-G20 D01.
 2. Fixed SVID not match GIGABYTE spec issue.
 3. Fixed riser auto detect error issue.
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