

BIOS Release Notes

TITLE

SUBJECT: MZ52-G40 BIOS Release Notes version R25_F00l
System: MZ52-G40-00,G482-Z50-00,G482-Z51-00,G482-Z52-00,G482-Z53-YF,
G482-Z53-00

About This Release

Build Date: 2024/07/11
BIOS Checksum: 0x9EBEA2FE (32M)
Release Owner: Auto.Build(Ray.Xu)

BIOS Components/Contents

Processor stepping(s) supported: AMD Rome / Naples Processors
System hardware configurations supported: MZ52-G40-00
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 MZ52-G40_R25_F00l.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\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

R25

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

R24

1. Enhance Endless Retry PXE feature.

R23

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.

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R22

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

R21

1. Updated AGESA 1.0.0.F.

R20

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

R19

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

R18

1. Update AGESA 1.0.0.A.
2. Update SATA redriver.
3. Set GPIO pin default.
4. Fine tune TCG function.
5. Disable AMI pure code set USB OC.

R17

1. Update AGESA 1.0.0.9.
 2. Update AMI kernel 0ACMK019.
 3. Update redriver for G482-Z51, G482-Z52 and G482-Z53.
 4. Update redriver for G492-Z50, G492-Z51.
 5. Fine tune setup SATA information.
 6. Fine tune NMI function.
 7. Fine tune setup default.
 8. Fix P0_P3 slot incorrect information on BMC WebUI.
 9. Fine tune Redfish remote BIOS setup function.
 10. Added GBT Watch Dog Timer.
 11. Fixed allocating tons of resource requirement when SR-IOV is enabled.
 12. Update IRROM.
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R16

1. Fine tune G482-Z51, G482-Z52, G482-Z53 redriver.
 2. Fine tune GBT SVID function.
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R15

1. Updated AGESA 1.0.0.8.
 2. Updated Redfish feature
 3. Security update for CVE-2020-10255 and CVE-2020-10713.
 4. Fixed after clean CMOS system hang issue.
 5. Fine tune AC loss function.
 6. Fine tune setup item.
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R14

1. Add G492-Z51 SKU.
 2. Fixed system wait long time randomly when boot in OS.
 3. Fixed redfish load boot order default fail.
 4. Fine tune AC Loss function to avoid POST hang code.
 5. Set more SMBIOS size.
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R13

1. Update redfish remote setup for boot order.
 2. Fix CPU2 PCIe link speed item fail.
 3. Fine tune PCIe initial.
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R12

1. Update RomePI 1.0.0.7 kernel.
 2. Update AMI kernel.
 3. Add SKU G482-Z53-YF.
 4. Update G482-Z51, G482-Z52, G492-Z50 and G482-Z53-YF re-driver.
 5. Set 3 xGMI link speed default.
 6. Adjusted boot option maximum.
 7. Update Redfish feature.
 8. Core Performance Boost disable fail.
 9. Added onboard VGA default output priority option in UEFI mode.
 10. BIOS Ready Timing change.
 11. Fixed flash Naples BIOS crash issue.
 12. Fixed IPMI Persistent Boot issue.
 13. Fine tune BIOS setup default.
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R11

1. Fixed Hot Plug function fail issue.

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2. Fixed Shell screen re-flash issue.

R10

1. Update RomePI 1.0.0.6 kernel.
2. Fine tune G492-Z50-00 IOResource.
3. Fine tune G492-Z50 PCIe redriver.

R09

1. Fine tune PCIe behavior.
2. Fine tune setup item.
3. Fix some AMD PCIe card set GBT SVID.

R08

1. Update AGESA PI to 1.0.0.5.
2. Fix POST memory log incorrect.
3. Fixed X540, X550 legacy PXE boot failed.
4. Fine tune G492-Z50 PCIe redriver.
5. Fine tune setup item.
6. Runtime disable turbo boost.

R07

1. Fine tune WebUI data.
2. Set G492-Z50 Pcie data.
3. Fine tune usb data for WHCK.

R06

1. Fix legacy PXE cannot work.

R05

1. Fixed NVIDIA and AMD GPU card driver BSOD issue.
2. Fine tune ASMedia usb.
3. Fine tune IO resource table.
4. Add G482-Z52-00 sku.

R04

1. Update AGESA 1.0.0.4.
 2. Adjusted Setup Menu default.
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R02

1. Fine tune PCIe link speed behavior.
2. Add GIGABYTE Quick Setting.
3. Update PCIe Re-driver.

R01

1. PVT release.
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