

BIOS Release Notes

TITLE

SUBJECT: MZ42-G21 BIOS Release Notes version R12_F00
System: MZ42-G21-00,G292-Z45-00,G292-Z45-ICU1-000,G292-Z45-ICM1-000

About This Release

Build Date: 2024/07/11
BIOS Checksum: 0xA14C9722 (32M)
Release Owner: Auto.Build(Ray.Xu)

BIOS Components/Contents

Processor stepping(s) supported: AMD Rome Processors
System hardware configurations supported: MZ42-G21-00
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 MZ42-G21_R12_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:

1. Insert bios update USB flash drive.
2. Use Command Shell.

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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.

item	OS	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

R12

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

R11

1. Enhance Endless Retry PXE feature.

R10

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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R09

1. Update AGESA 1.0.0.G.
 2. Update Microcode 0830107A for CVE-2023-20593 issue.
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R08

1. Updated AGESA 1.0.0.F.
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R07

1. Updated AGESA 1.0.0.E.
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R06

1. Support BIOS item to modiefy PCIe link speed.
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R05

1. Fine tune re-driver function.
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R04

1. Fixed PCIE set wrong bandwidth.
 2. Adjusted G292-Z45-00 redriver v20220126
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R03

1. Fine tune flash tool for dual BIOS.
 2. Support NVME LED control for system.
 3. Modify BMC major number format in setup menu.
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R02

1. Update AGESA 1.0.0.C.
 2. Fixed afu check second BIOS rom failed.
 3. Fixed Qlogic MAC issue in WebUI.
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R01

1. First release PVT BIOS, base on D03.
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