BIOS Release Notes

TITLE

SUBJECT: MZA2-CE0 BIOS Release Notes version R19_F04
System: MZA2-CE0-00,R162-ZA0-00,R162-ZA1-00,R162-ZA2-00,R262-ZA0-00,
    R262-ZA1-00

About This Release

Build Date: **2024/09/27**
BIOS Checksum: **0x9F06C1B9 (32M)**
Release Owner: **Hex.Jan**

BIOS Components/Contents

Processor stepping(s) supported: AMD Rome Processors
System hardware configurations supported: MZA2-CE0-00
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_0ACMK032
AGESA PI version: RomePI 1.0.0.J
OPROM version:

OPROM	Version
AST2500	1.09.0

Installation Notes

IMPORTANT NOTES:
1. Please extract the MZA2-CE0_R19_F04.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.
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 <DEL> 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

R19
   1. [Feature] Update AGESA 1.0.0.J.
   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.

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R18

      1. [Security Update] PKfail issue.

      2. [Feature] Optimize BcpPro tool compatibility.

R17

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

R16

      1. Enhance Endless Retry PXE feature.

R15

      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.

R14

      1. Support secure eraser HDD.

R13

      1. Update AGESA 1.0.0.G.

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

R12

      1. Updated AGESA 1.0.0.F.

R11

      1. Updated AGESA 1.0.0.E.

R10

      1. Update AGESA 1.0.0.D.

      2. Support ROT 1712.

      3. Modify Hotplug function for R162-ZA2.

      4. Modify SMBIOS Type 9 info.

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R09
1. Fine tune flash tool for dual BIOS.
2. Support NVME LED control for system.
3. Modify BMC major number format in setup menu.
4. Added R162-ZA2-00 system support.

R08
1. Update AGESA 1.0.0.C.
2. Fixed afu check second BIOS rom failed.
3. Fixed Qlogic MAC issue in WebUI.

R07
1. Added Redfish - System Inventory.
2. Fixed non-persistent boot issue.
3. Added Setup Flash.
4. Update SMBIOS Type130/131.

R06
1. Update AGESA 1.0.0.A.

R05
1. Update AGESA Label 0ACMK019.
2. Fixed allocating tons of resource requirement when SR-IOV is enabled.
3. Fine tune Redfish remote BIOS setup funtion.
4. Fine tune HDD naming issue.
5. Fine tune R162-ZA1 SATA Configuration page.

R04
1. Update AGESA 1.0.0.9.
2. Fine Tune BIOS item Default string.
3. Added R162-ZA1-00, R262-ZA1-00, R262-ZA2-00 system support.
4. Fixed system R162-ZA1, R262-ZA1, R262-ZA2 SATA Configuration page.
5. Changed ISL address.
6. Fine tune SLOT_2_Front and OCP2 Option ROM item.
7. Fine tune SLOT3 slot Auto detect issue.

R03
1. Fixed when PCIE error occurs, there is no pause and warning message on the POST screen.
2. Fixed BIOS crash when used non-specification PSU device.

3. Fixed WHQL SMBIOS/USB issue.
4. Fixed RTC fail issue.
5. Fixed NVME Timeout when keep hold Ctrl + Alt + Del
6. Fixed SATA display abnormal in the middle port.
7. Adjusted Wakeup events not support with ROT systems.
8. Fine Tune BIOS item Default string.
9. Fixed NVMe Can't detect issue.
10. Added IRROM version 0005.(With ISL power 2020/10/08)

R02

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

R01

1. First Release.