

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ92-FS0 BIOS Release Notes version R31\_F02  
**System:** R282-Z93-00,R282-Z96-00,R282-Z9G-00,R282-003-EZ,R282-005-EZ,  
R282-Z95-SW-IT-003

### About This Release

**Build Date:** 2023/07/29  
**BIOS Checksum:** 0xA0539DDF (32M)  
**Release Owner:** Auto.Build(Hex.Jan)

### BIOS Components/Contents

**Processor stepping(s) supported:** AMD Rome / Naples Processors  
**System hardware configurations supported:** MZ92-FS0-00, MZ92-FS1-00  
**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	0830107A

**IPMI support:**  
**AMI Kernel version:** 5.14\_RomeCrb\_0ACMK027  
**AGESA PI version:** RomePI 1.0.0.G  
**OPROM version:**

OPROM	Version
AST2500	1.09.00

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MZ92-FS0\_R31\_F02.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 <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

R31

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

R30

1. Added R282-Z95-SW-IT-003 system support.

R29

1. Updated AGESA 1.0.0.F.

R28

## BIOS Release Notes

1. Update AGESA 1.0.0.E.
2. Added DDR vendor information.

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### R27

1. Update AGESA 1.0.0.D.
2. Support ROT 1712.
3. Support BPB LED control for system.

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### R26

1. Update AGESA 1.0.0.D.
2. Support ROT 1712.
3. Added R282-005-EZ system support.

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### R25

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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### R24

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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### R23

1. Fixed SMBIOS broken.

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### R22

1. Updated AGESA 1.0.0.A
2. Modify R282-003-EZ system table.

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### R21

1. Updated AGESA 1.0.0.9
2. Added ISL FW v0007
3. Fixed allocating tons of resource requirement when SR-IOV is enabled.
4. Added R282-003-EZ system support.
5. Fixed some LAN card will hang at BIOS debug code 0x92.
6. Fine tune Redfish remote BIOS setup funtion.
7. Added R282-Z9B-GB System.

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### R20

1. Adjusted R282-Z96-00 system hot-plug table.
2. Adjusted R282-Z96-00 system PCIE link speed behavior.
3. Adjusted R282-Z96-00 system SATA Configuration Page.
4. Fixed SMBIOS type 1 issue.

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### R19

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. Added R282-Z96-00 system support.

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### R18

1. Update AGESA 1.0.0.8
2. Updated Redfish feature for remote setup function.
3. Fixed Clean CMOS reboot system hang.
4. Fixed UUID lost with lan card in legacy mode.
5. Added Fabric Resource Setup Items.
6. Security update for CVE-2020-10255 and CVE-2020-10713.
7. Adjusted R282-001-Q8 system Hotplug table.

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### R17

1. Added R282-001-Q8 system support.

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### R16

1. Fixed system wait long time randomly when boot in OS.
2. Fixed redfish load boot order default fail.

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### R15

1. Update AGESA 1.0.0.7.
2. Change SMT & IOMMU Default to Auto & Enable
3. Adjust MZ92-FS1 USB driving.
4. Fixed Server manager setup setting message box lost.
5. Fixed PCIe device sequence.

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6. Update redfish feature for boot order.

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### R14

1. Adjusted boot option maximum.
2. Adjusted R182-Z93-00 and R282-Z94-00 system PCIE link speed behavior.
3. Adjusted R182-Z93-00 and R282-Z94-00 system Hot-plug table.
4. Fixed M.2 missing in Linux with one CPU.
5. Update Redfish feature.
6. Core Performance Boost disable fail
7. Added onboard VGA default output priority option in UEFI mode.
8. BIOS Ready Timing change.
9. Fixed flash Naples BIOS crash issue.
10. Fixed IPMI Persistent Boot issue.

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### R13

1. Fixed Hot Plug function fail issue.
2. Adjusted R182-Z93-00 and R282-Z94-00 system PCIE link speed behavior.

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### R12

1. Update AGESA 1.0.0.6.
2. Added R182-Z93-00 and R282-Z94-00 system support.
3. Fine tune Redfish item.
4. Added Erp Lot 9 Item.
5. Fixed SVID issue.
6. Fixed IPMI command change boot order fail issue.
7. Fixed Shell screen re-flash issue.

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### R11

1. Update AGESA 1.0.0.5.
2. Fixed POST screen show wrong memory test error in CPU1 channel J.
3. Fixed 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.

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### R10

1. Fixed NVIDIA and AMD GPU card driver BSOD issue.

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## R09

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

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## R08

1. Update AGESA 1.0.0.3
2. Adjusted Setup Menu default.
3. Fine tune PCIe link speed behavior.

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## R07

1. Modify SMBIOS type131 data for Windows 2019 server HLK fail.
2. Default disable “HD Audio” for Windows 2019 server HLK fail.
3. Fixed Intel 82599 LAN card MAC address display issue.
4. Fixed 1 DIMM per channel ECC display issue.
5. Fixed legacy PXE boot issue.

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## R06

1. Modify USB device tree.
2. Fixed OCP2 slot issue.

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## R05

1. Update AGESA 1.0.0.2.
2. Add the remote modify BIOS setup function.
3. Fixed some slot hot plug fail issue.

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## R04

1. Fixed M.2 black screen issue.
2. Fixed low temperature hang issue.
3. Adjusted SATA Web information.
4. Adjusted R282-Z92-00 system default.

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## R03

1. Fixed SCE tool issue.
2. Adjusted OPR0M Option.
3. Adjusted NVMe Web information.

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## R02

## BIOS Release Notes

1. Adjusted OPROM Option.
2. Adjusted SLSAS and OCP2 link speed.
3. Adjusted Web UI information.

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R01

1. First Release.
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