

BIOS Release Notes

TITLE

SUBJECT: MZ93-FS1 BIOS Release Notes version R15_F27
System: R283-Z97-AAF1-000,R283-Z97-AAL1-000

About This Release

Build Date: 2026/08/01
BIOS Checksum: 0x67EBFA4A (32M)
Release Owner: Nelson.Lin

BIOS Components/Contents

Processor stepping(s) supported: AMD Turin / Genoa Processors
System hardware configurations supported: MZ93-FS1-000
PCB Version: 1.x,3.x
Microcode updates versions:

CPUID	Family	Microcode Update ID
Turin A0	Family 1Ah Model 00h-0Fh	0x0B00004D
Turin B0	Family 1Ah Model 00h-0Fh	0x0B001016
Turin C0	Family 1Ah Model 00h-0Fh	0x0B002032
Turin C1	Family 1Ah Model 00h-0Fh	0x0B002162
Turin Dense A0	Family 1Ah Model 00h-0Fh	0x0B10000F
Turin Dense B0	Family 1Ah Model 00h-0Fh	0x0B101059

IPMI support:
AMI Kernel version: 5.35_0ACST_PI1.0.0.A_024
AGESA PI version: TurinPI 1.0.0.A
OPROM version:

OPROM	Version
AST2600	1.13.00

Installation Notes

IMPORTANT NOTES:

1. Please extract the MZ93-FS1_R15_F27.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.

BIOS Release Notes

3. Enter your USB filesystem, like "fs0:" or "fsx:", "x" is your USB filesystem number
4. Flash script for bios update:
 - 4.1 For AMD EPYC 9004 series CPU, execute f_GtoT.nsh
 - 4.2 For AMD EPYC 9005 series CPU, execute f.nsh
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. For AMD EPYC 9004 series CPU:
 - 3.1 Enter \Tool\WIN\afuwin32 and execute f_GtoT.bat for Windows 32bit.
 - 3.2 Enter \Tool\WIN\afuwin64 and execute f_GtoT.bat for Windows 64bit.
4. For AMD EPYC 9005 series CPU:
 - 4.1 Enter \Tool\WIN\afuwin32 and execute f.bat for Windows 32bit.
 - 4.2 Enter \Tool\WIN\afuwin64 and execute f.bat for Windows 64bit.
5. 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

Issues fixed in this version

R15

1. [Feature] Update DDR manufacturer information.
2. [Feature] Add Above 4G Resource configuration item.
3. [Feature] Support 2K IO Resources Support item displayed.
4. [Feature] Update Genoa BIOS to F34b.
5. [Feature] Enhance system stability.
6. [Security] CVE-2026-33197, CVE-2026-33198.

R14

1. [Feature] Update AGESA 1.0.0.A
2. [Feature] Enhance Redfish.
3. [Feature] Enhance system stability.
4. [Security] CVE-2025-0027, CVE-2025-11187, CVE-2025-15467, CVE-2025-29940, CVE-2025-52535, CVE-2025-52537, CVE-2025-54501, CVE-2025-54502, CVE-2025-54503, CVE-2025-54504, CVE-2025-54506, CVE-2025-54508, CVE-2025-62620, CVE-2025-62621, CVE-2025-68160, CVE-2025-69418, CVE-2025-69419, CVE-2025-69421,

BIOS Release Notes

CVE-2026-22795, CVE-2026-22796.

R13

1. [Feature] Update Genoa AGESA 1.0.0.H.

R12

1. [Feature] Update AGESA 1.0.0.9
2. [Feature] Enhance Redfish.
3. [Feature] Enhance PLX function.
4. [Security] CVE-2023-45236, CVE-2023-45237, CVE-2025-54502, CVE-2025-54507, CVE-2025-54510, CVE-2025-61971, CVE-2025-61972, CVE-2025-62626.

R11

1. [Feature] Update Genoa BIOS to F24.

R10

1. [Feature]: Update AGESA 1.0.0.7
2. [Feature]: Support HDD OPAL
3. [Security]: CVE-2025-0033, CVE-2025-3770, CVE-2025-29943.

R09

- 1.[Feature] Update AGESA 1.0.0.6.
- 2.[Security]: CVE-2025-52533, CVE-2023-31364, CVE-2025-29950, CVE-2024-36355, CVE-2025-29939, CVE-2025-0012, CVE-2023-20539, CVE-2025-52536, CVE-2024-21961, CVE-2025-29948, CVE-2024-21953, CVE-2025-0027, CVE-2025-29952, CVE-2025-52534, CVE-2025-48517, CVE-2025-0031, CVE-2024-36310, CVE-2025-29946, CVE-2025-48514, CVE-2025-0029, CVE-2025-48509.

R08

1. [Feature] Update AGESA 1.0.0.5.
2. [Security] CVE-2024-13176.

R07

1. [Feature] Update DDR manufacturer information.
 2. [Feature] Add Microsoft Option ROM UEFI CA 2023 key.
 3. [Feature] Enhance SMBIOS type9.
 4. [Feature] Enhance Redfish.
-

BIOS Release Notes

R06

- 1.[Feature] Update AGESA 1.0.0.4.
 - 2.[Security] CVE-2023-6237, CVE-2024-6119, CVE-2024-7344.
-

R05

- 1.[Fix] Fix PCIE compatibility when install GPU card.
-

R04

- 1.[Feature] Adjust the default maximum DDR speed.
-

R03

1. [Fix] SCE tool import/export issue.
 2. [Fix] Fix Redfish sends data twice after the system has completed booting.
 3. [Feature] Adjust the maximum speed limit during automatic memory training.
 4. [Feature] Add support for PCIe Re-Sizeable BAR functionality.
-

R02

- 1.[Feature] Update AGESA 1.0.0.2.
 - 2.[Fix] Fix the network configuration switching issue in the BIOS Server Manager setup.
 - 3.[Fix] Fix the issue where having too many installed devices causes the system to hang at the BIOS logo screen.
 - 4.[Security] CVE-2024-0179, CVE-2024-21925, CVE-2024-21944, CVE-2020-10255.
-

R01

1. First Release.
-