BIOS Release Notes

TITLE

SUBJECT:	MZK3-LM0 BIOS Release Notes version F21
System:	MZK3-LM0-000,R183-ZK0-LAJ1-000,R183-ZK0-AAL1-000, R283-ZK0-AAL1-000,R283-ZK0-AAS1-TS0,R283-ZK0-AAS2-TS0, R283-ZK0-IAL1-000

About This Release

Build Date: **2026/09/03**
BIOS Checksum: **0xB85A4680 (32M)**
Release Owner: **Nelson.Lin**

BIOS Components/Contents

Processor stepping(s) supported: AMD Genoa Processors
System hardware configurations supported: MZK3-LM0-000
PCB Version: 1.x
Microcode updates versions:

CPUID	Family	Microcode Update ID
Genoa B0	Family 19h Model 10-1Fh	0x0A101020
Genoa B1	Family 19h Model 10-1Fh	0x0A101158
Genoa B2	Family 19h Model 10-1Fh	0x0A101253
Bergamo A0	Family 19h Model 10-1Fh	0x0AA00009
Bergamo A1	Family 19h Model 10-1Fh	0x0AA00116
Bergamo A2	Family 19h Model 10-1Fh	0x0AA0021C

IPMI support:
AMI Kernel version: 5.27_GenoaCrb_0ACQT033
AGESA PI version: GenoaPI 1.0.0.J
OPROM version:

OPROM	Version
AST2600	1.13.01

Installation Notes

IMPORTANT NOTES:
1. Please extract the MZK3-LM0_F21.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

Issues fixed in this version

F21

1. [Feature] Update AGESA 1.0.0.J.
2. [Feature] Update DDR manufacturer information.
3. [Fix] Fixed Redfish FBO does not apply issue.
4. [Security] CVE-2025-0027, CVE-2025-29941, CVE-2025-48504, CVE-2025-52535, CVE-2025-62620, CVE-2026-0003, CVE-2026-0893, CVE-2026-28247, CVE-2026-28248, CVE-2026-28249, CVE-2026-40668, CVE-2026-40669, CVE-2026-40670.

F20

1. [Feature] Update DDR manufacturer information.
2. [Feature] Enhance system stability.
3. [Security] CVE-2026-33197.

F19

1. [Feature] Enhance system stability.
2. [Security] CVE-2025-11187, CVE-2025-15467, CVE-2025-68160, CVE-2025-69418, CVE-2025-69419, CVE-2025-69421, CVE-2026-22795, CVE-2026-22796.

F18

1. [Feature] Update AGESA 1.0.0.H.
2. [Feature] Update DDR manufacturer information.
3. [Feature] Enhance system stability.
4. [Security] CVE-2021-26410, CVE-2021-26381, CVE-2024-21953, CVE-2024-21954, CVE-2024-21961, CVE-2025-0012, CVE-2025-0029, CVE-2025-0031, CVE-2025-0045, CVE-2025-29939, CVE-2025-29946, CVE-2025-29948, CVE-2025-29949, CVE-2025-29950, CVE-2025-29951, CVE-2025-29952, CVE-2024-36310, CVE-2024-36311, CVE-2024-36355, CVE-2025-48509, CVE-2025-48514, CVE-2025-48515, CVE-2025-48517, CVE-2025-52533, CVE-2025-52534, CVE-2025-52536, CVE-2025-54502, CVE-2025-54509, CVE-2025-54510, CVE-2025-54514, CVE-2025-61971, CVE-2025-61972.

F17

1. [Security] CVE-2025-0033, CVE-2025-3770, CVE-2025-29943.

F16

1. [Feature] Update AGESA 1.0.0.G.
2. [Security] CVE-2024-13176, CVE-2025-29934.

F15

1. [Feature] Update AGESA 1.0.0.F.
2. [Feature] Add Redfish GET method with 5 retries and 500ms delay between attempts.
3. [Feature] Update for supportall slot number NotAvailable string in SMBIOS Type9.
4. [Feature] Add DDR V-Color vendor information in the SMBIOS.
5. [Security] CVE-2023-6237, CVE-2023-52353, CVE-2024-5535, CVE-2024-6119, CVE-2024-9143, CVE-2025-22830.

F14

1. [Feature] Update AGESA 1.0.0.E.
2. [Security] CVE-2024-56161, CVE-2024-36347, CVE-2024-38796

F13

1.[Update] Added R283-ZK0-IAL1-000 system support.

F12

1. [Feature] Support KMIP.
2. [Fix] Fixed the IPv6 gateway configuration issue on the Server Manager setup page.

F11

1.[Update] Added R283-ZK0-AAS1-TS0 system support.
2.[Update] Added R283-ZK0-AAS2-TS0 system support.

F10

1.[Feature] Update AGESA 1.0.0.D.
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.

F09

1. Update Dual Image version Support.

F08

1. Update USB ASL config.

F07

1. Update inventory table(Ver:11).
2. Fix incorrect ISL VR setting.

F06

1. Add new System: R283-ZK0-AAL1-TS0.
2. Update inventory table(Ver:10).

F05

1. Add new System: R183-ZK0-AAL1-000.
2. Update inventory table(Ver:08).

F04

1. [Security Update] PKfail issue.
2. [Feature] Optimize WebUI HDD Inventory information.
3. [Feature] Optimize CX7 WubUI Inventory information.

F03

1. Fix HDD inventory abnormal. Mantis:63841
2. Fix HDD inventory abnormal. Mantis:64162

F02

1. [Feature] Fine tune BMC IPv6 and IPv4 Network.
2. Remove item "Boot mode select".
3. Remove not available Redfish items:
Secure Boot (SECB001)
Boot mode select (FBO001)
ACPI SLIT local inter-CXL distance (Genoa128)
ACPI SLIT remote inter-CXL distance (Genoa129)
IPv6 BMC Lan Option (IPMI601)
IPv6 BMC Lan IP Address Source (IPMI602)
4. Change item "Endless Retry Boot" Redfish AttributeName from "Genoa834" to "GBT0168" .
5. Update GBT Channel Genoa AGESA 1.0.0.C.
6. Secure update: CVE-2023-31355, CVE-2024-21978, CVE-2024-21980, CVE-2023-31315

F01

1. First release.
2. Fix NVMe Hot plug function failure. Mantis:63254
3. Fix HDD inventory mapping error. Mantis:64162
