BIOS Release Notes

TITLE

SUBJECT:	MZK3-LM0 BIOS Release Notes version R22_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: **0x68E1BB12 (32M)**
Release Owner: **Nelson.Lin**

BIOS Components/Contents

Processor stepping(s) supported: AMD Turin / Genoa Processors
System hardware configurations supported: MZK3-LM0-000
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	0x0B002175
Turin Dense A0	Family 1Ah Model 00h-0Fh	0x0B10000F
Turin Dense B0	Family 1Ah Model 00h-0Fh	0x0B101066

IPMI support:
AMI Kernel version: 5.35_0ACST_PI1.0.0.B_025
AGESA PI version: TurinPI 1.0.0.B
OPROM version:

OPROM	Version
AST2600	1.13.00

Installation Notes

IMPORTANT NOTES:

1. Please extract the MZK3-LM0_R22_F21.zip to a bootable diskette that use FAT/FAT32 format

BIOS UPDATE INSTRUCTIONS FOR EFI Shell:

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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. 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 <DEL> during POST
2. The bios version shows on the first main page

Known Issues/Workarounds

Issues fixed in this version

R22

1. [Feature] Update AGESA 1.0.0.B.
2. [Feature] Update DDR manufacturer information.
3. [Security] CVE-2024-36357, CVE-2024-36350, CVE-2025-29941, CVE-2025-48504, CVE-2025-58771, CVE-2025-58772, CVE-2025-58773, CVE-2025-58774, CVE-2026-0004, CVE-2026-0435, CVE-2026-0454, CVE-2026-0480, CVE-2026-0893, CVE-2026-28245, CVE-2026-28246, CVE-2026-28247, CVE-2026-28248, CVE-2026-40668, CVE-2026-40670.

R21

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] Enhance system stability.
5. [Security] CVE-2026-33197, CVE-2026-33198.

R20

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

R19

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

R18

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.

R17

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

R16

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.

R15

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

R14

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.

R13

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

R12

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

R11

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

R10

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.

R09

1.[Feature] Add R283-ZK0-IAL1-000 system support

R08

1.[Feature] Update AGESA 1.0.0.3.
2.[Feature] Support DDR speed up to 6400, but it requires manual adjustment in the BIOS settings.
UMC Common Options => Enforce POR => Accept => Memory Target Speed set [DDR6400]
Note: The maximum supported speed is based on product specifications.
3.[Fix] Fix the issue where NVMe speed is reduced to Gen4 after a hot plug.
4.[Fix] Fix the issue where SEL reports incorrect DDR channel information when associated with CPU1.
5.[Fix] Fix the issue where the system ready to boot process gets stuck when the BMC is unresponsive.

R07

1.[Feature] Support Gbt Hyper Performance to sync BIOS quick settings and send IPMI

command to BMC.
2.[Feature] Enhance device compatibility.

R06

1.[Feature] Add R283-ZK0-AAS1-TS0 system support
2.[Feature] Add R283-ZK0-AAS2-TS0 system support.

R05

1. [Fix] Prevent BSOD in the Best Performance mode.

R04

1.[Feature] Update AGESA 1.0.0.2

R03

1.[Feature] Update AGESA 1.0.0.1
2.[Fix]Fix EFI shell mapping table display.

R02

1.Fix BIOS version display for non-boot bios.

R01

1.First release.
2.[Bug] Fix Force Network Boot function error.
