

# BIOS Release Notes

## TITLE

**SUBJECT:** MZK3-LM0 BIOS Release Notes version R19\_F18  
**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:** 2026/04/01  
**BIOS Checksum:** 0x6A698360 (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	0x0B00215A
Turin Dense A0	Family 1Ah Model 00h-0Fh	0x0B10000F
Turin Dense B0	Family 1Ah Model 00h-0Fh	0x0B101054

**IPMI support:**  
**AMI Kernel version:** 5.35\_0ACST\_PI1.0.0.9\_023  
**AGESA PI version:** TurinPI 1.0.0.9  
**OPROM version:**

OPROM	Version
AST2600	1.13.00

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MZK3-LM0\_R19\_F18.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

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

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3. [Security]: CVE-2025-0033, CVE-2025-3770, CVE-2025-29943.

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### 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.

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### R15

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

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### 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.

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### R13

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

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### R12

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

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### R11

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

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### 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.

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### R09

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

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## 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.

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## R07

- 1.[Feature] Support Gbt Hyper Performance to sync BIOS quick settings and send IPMI command to BMC.
- 2.[Feature] Enhance device compatibility.

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## R06

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

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## R05

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

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## R04

- 1.[Feature] Update AGESA 1.0.0.2

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## R03

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

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## R02

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

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## R01

- 1.First release.

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2.[Bug] Fix Force Network Boot function error.

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