

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ22-G20 BIOS Release Notes version M19\_R34  
**System:** MZ22-G20-00,G292-Z20-00,G292-Z21-NJ,G292-Z22-00,G292-Z24-00,  
G292-Z2A-NJ,G292-Z20-SW-IT-001

### About This Release

**Build Date:** 2024/09/30  
**BIOS Checksum:** 0x8CB75DC7 (32M)  
**Release Owner:** Nelson.Lin

### BIOS Components/Contents

**Processor stepping(s) supported:** AMD Milan / Rome Processors  
**System hardware configurations supported:** MZ22-G20-00  
**PCB Version:** 3.x  
**Microcode updates versions:**

| CPUID    | Family                  | Microcode Update ID |
|----------|-------------------------|---------------------|
| Milan A0 | Family 19h Model 00-0Fh | 0A000033            |
| Milan B0 | Family 19h Model 00-0Fh | 0A00107A            |
| Milan B1 | Family 19h Model 00-0Fh | 0A0011D5            |
| Milan B2 | Family 19h Model 00-0Fh | 0A001238            |

**IPMI support:**  
**AMI Kernel version:** 5.22\_MilanCrb\_0ACOU027  
**AGESA PI version:** MilanPI 1.0.0.D  
**OPROM version:**

| OPROM   | Version |
|---------|---------|
| AST2500 | 1.10.00 |

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the MZ22-G20\_M19\_R34.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.

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### 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

1. Windows OS does not support 256 or more logical.  
Windows 2019 can update KB44512534 to support it.

| OS<br>item  | Win2019             | Win2016             |
|-------------|---------------------|---------------------|
| IOMMU       | Enable ※            | Enable<br>KB4022723 |
| SMT Control | Enable<br>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

- 1 . Rome CPU please reference RelNotes\_Rome.PDF
- 2 . Milan CPU please reference RelNotes\_Milan.PDF