

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ91-FS0 BIOS Release Notes version [R12](#)  
**System:** [R181-Z90-00](#), [R181-Z91-00](#), [R181-Z92-00](#), [R281-Z91-00](#), [R281-Z92-00](#),  
[R281-Z94-00](#)

### About This Release

**Build Date:** [2019/11/12](#)  
**BIOS Checksum:** [0xCDD2E03F](#) (16M)  
**Release Owner:** Genie.Tsao

### BIOS Components/Contents

**Processor stepping(s) supported:** AMD Rome processors  
**System hardware configurations supported:** MZ91-FS0  
**Microcode updates versions:**

**IPMI support:**

**AGESA PI version:** [RomePI 1.0.0.4](#)

**OPROM version :**

OPROM	Version
AST2500 VGA	1.09

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the zip file 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, please reboot system

#### BIOS UPDATE INSTRUCTIONS FOR Windows:

1. Insert bios update USB flash drive.
2. Use Command Shell
3. Execute \Tool\WIN\Win32\\*.bat or \Tool\Win64\\*.bat for bios update
4. After bios flash finish, please reboot system

#### BIOS Version CHECK INSTRUCTIONS:

1. Power on system and press <DEL> during POST
2. The bios version shows on the first main page

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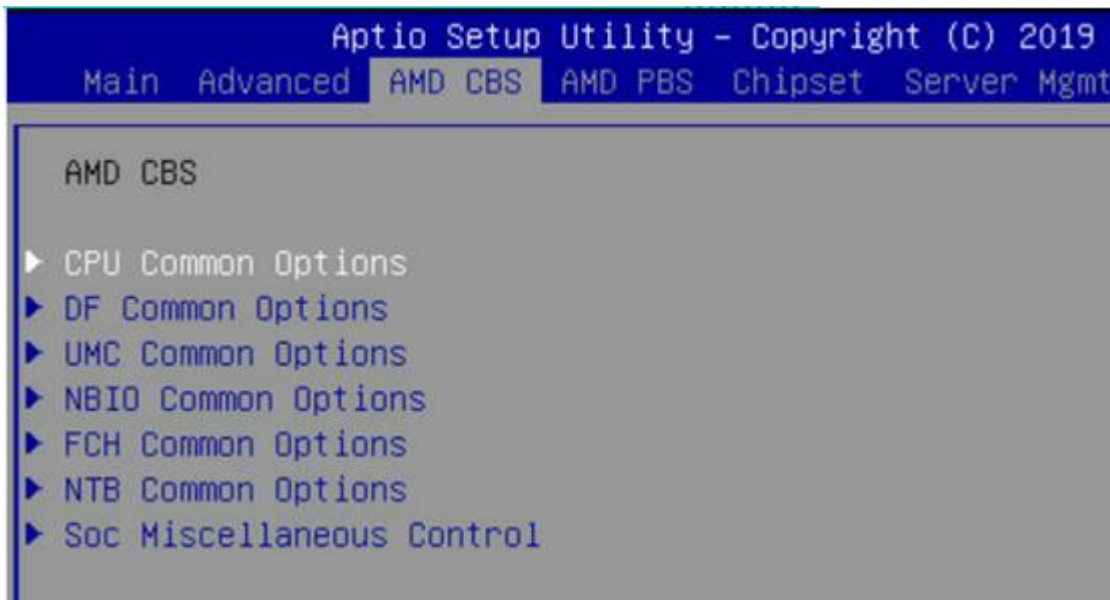
## Known Issues/Workarounds

1. Windows 2016 need install KB4022723 first, then enable BIOS setup item "IOMMU"  
Nvidia VGA CUDA not support IOMMU on Linux.
2. Windows OS does not support 256 or more logical. ( Need apply below update )  
2-1 . Windows 2019 can update KB4512534 to support 256 core SMT mode.  
2-2 . Set BIOS setup item "SMT Mode" to "Auto"
3. If your side use 64 core CPU x2.  
3-1. Linux kernel need 4.19 or later version and apply AMD X2APIC patch.  
( AMD X2APIC patch Implement OS version by OS vendor define )  
3-2. Windows 2019 need install KB4512534 for Support SMT.

PS.

BIOS setup item "SMT Mode" meant ( Simultaneous Multi-Threading ) Technology.

BIOS setup item "SMT Mode" Location as below :



AMD CBS ( on BIOS Setup page bar)

- ▶ CPU Common Options
    - ▶ Performance
      - ▶ CCD/Core/Thread Enablement
        - ▶ Accept
- SMT Control: Disable (Default) / Auto

# BIOS Release Notes

## Issues fixed in this version

### R12 (2019/11/12)

1. Fix POST VGA resolution less than 1024x768 (mantis 40477)
  2. Hidden AMD PBS page item "SPI Lock"
  3. Fix ubuntu/rhel/windows show different information (mantis 39000)
  4. Fix the non-synchronization issue of items related to Console Redirection between BIOS Setup & Remote Setup.
  5. Display BMC version information on the POST log (SOL / Com port)
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### R11 (2019/10/25)

- 1 . Update AGESA RomePI version to 1.0.0.4
  - 2 . Fix press F9 load default will show message in POST ( Mantis 39780 )
  - 3 . Fix BMC Virtual CDROM abnormal boot option name (mantis 39493)
  - 4 . Fix BMC detected PCIe SERR error log when install NVIDIA Tesla T4 ( Mantis 39622 )
  - 5 . Fix above 4G decode caused legacy LAN option rom exception (mantis 39287)
  - 6 . Fix BMC will detect PCIe SERR error log when system reboot with NVIDIA Tesla V100.
  - 7 . Fix PCIe slot option ROM have some wrong under BIOS PCI page. (mantis 38631)
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### R10 (2019/10/09)

1. Hidden un-use item. ( CBS USB / HD Audio / NBIO FAN )
  2. Update NVMe sequence form 00 start.
  3. Fix Apacer DDR4 in BIOS setup show unknow.
  4. Auto detect BMC vendor for hidden BMC LAN mode.
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### R09

1. Fix "Upgrade BIOS does not show loading default message" (mantis 39780)
  2. When OS Clear TPM through BIOS, the related message will be displayed. (mantis 39942 / 38711 / 35798)
  3. Hide SPI TPM support options. (mantis 39944)
  4. Fix ""PCIE AER" enable, then XGMI speed will go to 16 gbps". (mantis 40195)
  5. Fix "Found wrong sentence format in text mode" (mantis 39637)
  6. Fix the issue that item "Power Policy Quick Settings" can't be adjusted by Remote Setup.
  7. Fix the Load Default Function on the item "Power Policy Quick Settings".
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### R08

1. Fix NVMe Setup page display error for some systems.
2. Fix some external LAN devices causing system errors.
3. Fix ECC DIMM location error.

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## R07

1. Fixed "BIOS Serial port console redirection some wrong." (Issue ID : 38646)
  2. Fixed "NVMe sequence have problem." (Issue ID : 38815 / 38698)  
(System R181-Z91 / R181-Z92 / R281-Z91 / R281-Z92 / R281-Z94)
  3. Update behavior for Power Policy Quick Settings "Standard".
  4. Adjust AC loss behavior. (BIOS load default will be synchronized to BMC)
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## R06

1. Fixed "Use Amideefix64.efi to modify BIOS version, it will be change." (Issue ID : 39791)
  2. Adjust the behavior of the "Determinism Slider".
  3. Adjust USB device tree.
  4. Add Power Policy Quick Settings item which controls CPU performance items Interlocking.
  5. BIOS setup item XGMI default string show Auto.
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## R05

1. Add Setup "AMD CBS" > "SMU Common options" > "Determinism Control": Enable > "Determinism Slider" power and performance related settings.
  2. Disable Audio device for Server HLK.
  3. Fixed CPU1 get wrong ECC location.
  4. Adjusted SEL sensor number.
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## R04

1. Update AGESA version to 1.0.0.2
  2. Adjust DRAM ECC SEL Log
  3. Disable this feature if the BMC does not support Redfish
  4. Fixed can not boot Windows when enable "Enable AER Cap" item issue.
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## R03

1. Fixed Windows HLK TPM 2.0 preboot interface test failed
  2. Fixed "SVID check fail." (Issue ID : 38601)
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## R02

1. Support for future BMC versions of Redfish and Remote Setup.
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## R01

1. Fix "Sometimes can't detect USB via KVM" (Issue ID : 38841)

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2. Fix "BIOS>Chipset>North Bridge show Memory size have problem in 1024GB" (Issue ID : 38753)
  3. Fix "BMC IPv6 have some wrong in BIOS." (Issue ID : 38658)
  4. Fix "BIOS display item not match BIOS setup menu SPEC." (Issue ID : 38597)
  5. Fix "BMC vlan can't be set up in BIOS." (Issue ID : 38655)
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### T06

1. Show Nvme SN at Setup Menu Nvme page
  2. Add Wait BMC Ready Setup item.
  3. Fixed "Can't identify which PXE for LAN1 or LAN2." (Issue ID : 38610)
  4. Fixed "BIOS\_PWD behavior is wrong." (Issue ID : 38644)
  5. Fixed "SUT only have one boot OS, but BIOS display two boot item." (Issue ID : 38694)
  6. Fixed "SATA Configuration lost some string under BIOS." (Issue ID : 38642)
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### T05

1. Adjust PPL.
  2. Hidden "Offboard SATA Controller Configuration" Setup item to sync BIOS setup menu spec.
  3. Modify "PXE boot wait time" item default value to sync BIOS setup menu spec.
  4. Default XGMI 10.6G for PCB 1.x. (Issue ID : 38620)
  5. Fix BMC IPv6 address cannot show on setup
  6. Fixed "R281-Z92 install 24 Nvme but WebUI only shows 21 Nvme" issue.
  7. Fixed "Onboard LAN I/O ROM only display one item under BIOS PCI page, but the MB have two LAN." issue. (Issue ID : 38598)
  8. Fixed "Press F12 under BIOS LOGO, couldn't saw LAN1 PXE boot option ROM." Issue. (Issue ID : 38599)
  9. Fixed "BIOS didn't display "PSP Firmware Versions" item under Advanced page." Issue. (Issue ID : 38596)
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### T04

1. Update AGESA version to 1.0.0.0
  2. Update USB fine tune.
  3. Update VR(IR) version to A02 (8100).
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### T03

1. Improve the stability of Rome's I2C.
2. Update TPM TCG module.
3. Support I350 PXE driver.
4. BIOS setup add "CSM Configuration" page.
5. Support V-Color dimm.
6. Fix 32dimm hang issue.
7. BMC Web UI PCI information show link speed and link width.
8. Fix PCIe root bridge MMIO32 require size too small then reboot issue.
9. Update re-drvier and SATA setting.

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10. Fix PCI Subsystem Vendor ID don't match spec issue.
11. Fix Setup option SMT can't enable issue.
12. Fix NVMe order issue.
13. Fixed WebUI PCIE and Storage Page don't display Nvme information issue.

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### T02

1. Update AGESA version to 0.0.9.0
2. Setup Menu Main Page add Processor Information

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### T01

1. First release.