

BIOS Release Notes

TITLE

SUBJECT: MZ31-AR0 BIOS Release Notes version F23
System: G221-Z30-00, G221-001-AM, MZ31-AR0-00, MZ31-AR0-ES-Hetzner-01,
R151-001-00, R151-Z30-00, R151-Z31-00, R151-Z32-00,
R270-Z30-ES-AMD-001, R271-Z31-00, R271-Z31-ES-AMD-001, S451-Z30-00

About This Release

Build Date: 2024/11/07
BIOS Checksum: 0xDA05ED44 (16M)
Release Owner: Ben3.Lin

BIOS Components/Contents

Processor stepping(s) supported: AMD Naples processors
System hardware configurations supported: MZ31-AR0

IPMI support:
AGESA PI version: NaplesPI 1.0.0.B
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\Win32f.bat or \Tool\Win64f.bat for bios update
4. After bios flash finish, please reboot system

BIOS Version CHECK INSTRUCTIONS:

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

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BIOS UPDATE INSTRUCTIONS FOR Web UI

1. Connect BMC_IP by Internet browser
2. Click Web-UI sub-page button "Update"
3. Select Firmware Type to ROM
4. Use Command Shell
5. cd to /RBU
6. Select File Path to image.RBU
7. Click Upload

BIOS UPDATE INSTRUCTIONS FOR GbtUtility:

1. Please copy the BIOS_ZIP file to GbtUtility folder
2. Use Command Shell
3. cd to GbtUtility folder
4. Execute "java -jar GbtUtility.jar -H BMC_IP update bios BIOS_ZIP 1"

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Known Issues/Workarounds

Issues fixed in this version

- F23 (2024/11/07)
1. Update SMM Lock Bypass CVE-2023-31315
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- F22 (2021/07/06)
1. Enable SR-IOV as BIOS default.
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- F21 (2020/12/04)
1. Add more UUID detection way. (for prevent get external LAN MAC failed make empty UUID)
2. Add MI25 / MI50 FRU detection for prevent bandwidth issue.
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- F20 (2020/08/20)
1. Update secure boot to resolve security issues (CVE-2020-10713).
2. Fixed the problem of not waiting for BMC ready
3. Fix the problem that BMC data will be randomly lost at the first boot after AC on.
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- F19 (2020/03/02)
1. Adjust the behavior of IPMI boot device setting Legacy or UEFI
2. Fix BMC IPv6 address cannot show on setup.
3. Add BIOS setup item "ERP mode"
(Need BMC support , Please check BMC version form Web-site)
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- F18
1. Adjust AC loss behavior. (BIOS load default will be synchronized to BMC)
2 . Support HTTP boot
3 . "CPU Configuration" page is changed to display the speed of the cpu specification.
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- F17
1 . Fixed anomalies caused by conflict between Riser FRU and DRAM SPD
2 . Disable this feature if the BMC does not support Redfish
3 . Update TPM assurance AQ
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- F16
1 . Support for future BMC versions of Redfish and Remote Setup.
2 . Fix Windows HLK TPM 2.0 preboot interface test failed.
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- F15
1 . Fix AMD CBS variable cannot be saved
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- F14
1 . Update AGESA NaplesPI version to 1.0.0.B

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- 2 . Adjust "PCI Subsystem settings" setup page
 - 3 . Send SMBIOS 3.0 to BMC.
 - 4 . Adjust SMBIOS type9, type41.
 5. Fixed an issue where the External LAN card on the BMC Web UI does not have a MAC address.
 6. Support BMC Web UI PCI information show link speed and link width.
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F13

- 1 . Fix BMC Web UI can't receive SMBIOS issue (Occurs in F12).
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F12

1. Update from code base 015 to code base 017
 2. Skip NVIDIA card type-C device to avoid platform hang code
 3. Add POST warning when DIMM error occurs
 4. Add NVIDIA RTX 2080 patch
 5. Set item "Terminal Type" default.(set VT100+)
 6. Fine tune setup Chipset page
 7. Fix BMC IP show abnormal string on POST
 8. Fine tune COM port item name on setup
 9. Add redhat efi road
 10. Add new behavior.(When set legacy mode, show onboard VGA item.)
 11. Fix IPMI chassis bootdev command pxe function fail (mantis id 35347)
 12. Fix SVID of USB controller present in some SoC models is incorrect. (mantis id 36448)
 13. Fix POST hang Mellanox ConnexX-6 card
 14. Fixed PCIE disabled by riser card.
 15. Support BMC Hardware information
 16. Increase boot log when "COM1 / Serial Over Lan" is set to enabled
 17. Add PCIe resource for GPU
 18. Update AST2500 VBIOS to v1.09
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F11

1. Fix BMC IP show abnormal string on POST.
 2. Add new above 4G behavior.
 3. Fine tune setup page.
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F11b

1. Add onboard lan controller.
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F11a

1. Support Riser Card.
 2. Support V-Color Dimm.
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F10

- 1.fix Ubuntu not boot correctly in legacy mode.
- 2.set above 4G default to enable for GPU card.

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F09

- 1.release formal version and modify MMIO_64BIT_LIMIT.
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F09b

- 1.improve display.
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F09a

- 1.Modify bandwidth of slot 6.
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F08

- 1.Update SMBIOS for BMC WebUI
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F08b

- 1.Add XenServer EFI loader
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F08a

- 1.Modify above 4G decoding setting default to disable for some Video card
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F07

- 1.Change to formal version and fix 2.5" SED SSD stop issue
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F07b

- 1.Update to AGESA 1.0.0.6 for test purpose
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F06

- 1.Fix CentOS boot issue under UEFI mode
 - 2.revise solution for G221-Z30
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F05

- 1.Add solution for G221-Z30 GPU server
 - 2.Correct LAN string under BMC WebUI
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F04

- 1.Update AGESA to 1.0.0.5
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F04b

- 1.Fix 64GB Rdim display incorrect
 - 2.Fix ECC trigger only log DIMM A0
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F04a

- 1.Fix NMI not BSOD issue
 - 2.Fix HwInfoLib incorrect issue
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F03

- 1.Update solution for die1 XHCI controller

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- 2.Add patch solution for Qlogic G2 mode
 - 3.Update AGESA 1.0.0.1 patch binary
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F03d

- 1.remove some option for Enforce POR
 - 2.Correct behavior of chipset page
 - 3.Add solution for offboard SATA controller
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F03c

- 1.Improve NMI if non-OS
 - 2.Add NX mode option
 - 3.Modify CMOS policy for factory tool
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F03b

- 1.Setup menu update
 - 2.Add patch for BMC 0x0F WA
 - 3.Set AC back default to previous
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F03a

- 1.Add AMD SGPIO WA
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F02

- 1.NTFS file system as current channel
 - 2.Disable SGPIO
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F02n

- 1.update TSSataLib for SGPIO incorrect
 - 2.SATA power modify
 - 3.Improve SATA HotPlug
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F02m

- 1.Set print screen key to F5
 - 2.Add enforce POR feature
 - 3.Enable SGPIO
 - 4.Setup menu modification for channel
 - 5.Fine tune USB export for WHLK
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F02l

- 1.Disable SGPIO, due to BP under develop
 - 2.Add SATA hot plug port
 - 3.Fix USB 2.0 incorrect icon
 - 4.Fix MB rework, but MB ID incorrect
 - 5.Update clear CMOS jumper not display message
 - 6.Console redirection enable 100x31
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F02k

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- 1.Update AGESA to 1.0.0.1
 - 2.Add SATA hot plug feature
 - 3.Fix VMware ESXi 6.5 install issue
 - 4.Fix CPU L3 cache incorrect on setup menu
 - 5.Fix clear CMOS jumper not display message
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F02j

- 1.Disabled FixBootOrder function for hang 0x0d.
 - 2.Fixed HWLib hang 0x0d when warm reboot.
 - 3.Disabled PCIe SATA controller module for hang 0xA2 0x0E 0x0C.
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F02i

1. Fix LAN MAC incorrect
 2. improve stop code issue
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F02h

1. Improve stop 0xd, 0xc, 0x0e
 2. Sync TSE source solution
 3. Fix duplicate boot device if disk removed
 4. Add BMC IPv6 setup page
 5. Add GbtSystemBootEvent_SUPPORT
 6. remove GbtOpromScan_SUPPORT
 7. adjust kernel module sequence
 8. Add RTCWakeup solution
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F02g

1. Enabled SGPIO.
 2. Added onboard lan controller.
 3. Added memory ECC control item in AMD CBS.
 4. Fixed HWLib for web site show wrong storage information.
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F02f

1. Update for WHLK USB export test
 2. Add FixBootOrder for channel spec
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F02e

1. Implement USB redriver
 2. Implement SATA redriver and CPU strength
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F02d

1. add channel VLAN support
2. update send LAN MAC to BMC function
3. USB port mapping modify
4. SATA re-driver value update follow SQA suggestion
5. add AMD early train define
6. date description update to 2017

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7. improve DOS reboot stop 0xAE issue
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F02c

1. fix hang up issue in channel library
 2. BMC webUI sync
 3. set IOMMU default to disable
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F02b

1. patch random hang up 0x0d issue
 2. Add F12 HotKey for net boot.
 3. CMOS modify for load default tool
 4. Set CSM default to disable for channel spec
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F02a

1. Update AGESA 1.0.0.0
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F01

1. First release.