

BIOS Release Notes

TITLE

SUBJECT: MZ21-G20 BIOS Release Notes version [F10](#)
System: [G291-Z20-00](#), [MZ21-G20-00](#)

About This Release

Build Date: [2021/07/06](#)
BIOS Checksum: [0xD9CFBC49](#) (16M)
Release Owner: Ben3.Lin

BIOS Components/Contents

Processor stepping(s) supported: AMD Naples processors
System hardware configurations supported: MZ21-G20

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\WIN\Win32\f.bat or \Tool\Win64\f.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

- F10 (2021/07/06)
1. Enable SR-IOV as BIOS default.
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- F09 (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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- F08 (2020/08/21)
1. Update secure boot to resolve security issues (CVE-2020-10713).
 2. Fix Insufficient GPUx8 resources on Legacy OS
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- F07 (2020/03/02)
1. Fixed Mellanox Connect-X5 can't use Gen3 speed
 2. Adjust the behavior of IPMI boot device setting Legacy or UEFI
 3. Fix BMC IPv6 address cannot show on setup.
 4. Add BIOS setup item "ERP mode" (Need BMC support , Please check BMC version form Web-site)
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- F06
1. Fixed Linux AST2500 graphics driver loading error
 2. Update TPM assurance AQ
 3. Adjust AC loss behavior. (BIOS load default will be synchronized to BMC)
 4. "CPU Configuration" page is changed to display the speed of the cpu specification.
 5. Disable this feature if the BMC does not support Redfish
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- F05
1. Increase PCIe 64bit MMIO resource.
 2. Support for future BMC versions of Redfish and Remote Setup
 3. Adjust BMC FW version format
 4. Fix Windows HLK TPM 2.0 preboot interface test failed
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- F04
1. Update AGESA NaplesPI to 1.0.0.B
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- F03
1. Add PCIe slot(1.MZEE_1, 2. MZEE_2, MZEE_3) auto detect GIGABYTE card.
 2. Fix 2080TI POST issue.
 3. Fix Legacy OS disappeared boot option issue

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4. Fix Legacy OS unable-installation issue
5. Update AST2500 VBIOS to v1.09
6. Add PCIe resource for GPU
7. Add new behavior.(When set legacy mode, show onboard VGA item.)

F02

1. Fix uefi mode PXE random fail.
2. Set Asmedia USB SVID.
3. Fine tune setup item.

F01

- 1.Release PVT version.

D07

1. Update BMC model.
2. Fix 2.5" SED SSD stop issue.
3. Fix MEZZ_1 OPRom cannot work.

D06

1. Fine tune BIOS recovery.
2. Set POST code to show NVME information.

D05

1. Fix ReDriver model.
2. Fix BMC webUI SATA information.
3. Fix VGA error on legacy mode.
4. Fix AC loss information does not match on BMC and BIOS.
5. Set Melloux PCIe lane to support x8.
6. Fine tune the PCIe code.
7. Set correct SMBIOS data.

D04

1. Set PCIe PERR and SERR.

D03

1. Update kernel.
2. Update ReDriver model.
3. Set device SVID.

D02

1. Set first boot page.
2. Update new VR rom.
3. Modify event refer to Asmedia suggestion for bus20, dev1, fun4

D01

1. Set GPU SLOT PCIE Preset for PCIE_1~4

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2. Set GPU SLOT(PCIE_1~4) Redriver value
 3. Set "OnBrd/Ext VGA Select" item default
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E22

1. Add Oprom control item on "PCI Subsystem Settings"
 2. Set "PCI Subsystem Settings" page
 3. Add Onboard LAN control item on "PCI Subsystem Settings"
 4. Set SMBus low time
 5. Add memory multi bit information and add auto OS boot.
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E21

1. Fine tune MAC address code.
 2. Save MAC address information to GBT nvram.
 3. Fix VGA cannot display on BIOS recovery mode.
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E20

1. Lock Mellanox LAN after read MAC address.
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E19

1. Set MAC address for BMC web UI
 2. Set DIMM info for BMC web UI
 3. Set Main page MAC address
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E18

- 1.Modify PCIe lane 44~47 and mapping table
 - 2.Fix NMI button incorrect issue
 - 3.update USB mapping
 - 4.Update redriver algorithm
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E17

- 1.Set IOMMU default to disable
 - 2.Modify Setup menu
 - 3.Modify MEZZ_2 and MEZZ_3 to x16
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E16

- 1.Modify SATA strength and redriver.
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E15

- 1.Update USB WA
 - 2.Set Recovery token
 - 3.Modify AC-back option
 - 4.Disable spectrum
 - 5.Launch EFI driver and Legacy OPROM
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E14

- 1.update SQA MEZZ slot value

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E13

- 1.refer to SQA MEZZ slot value
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E12

- 1.Add PLX switch value
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E11

- 1.Modify Redriver module, modify setup item
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E10

- 1.Modify PCIe lane width for LAN training issue
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E09

- 1.Sync GPIO setting
 - 2.Correct AC-Back description
 - 3.Set LAN speed to Gen2, WA
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E08

- 1.AGESA version to 1.0.0.5
 - 2.Add USB WA module
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E07

- 1.Update IRROM file
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E06

- 1.fix display function in legacy mode.
 - 2.Device redefine, fix OS install issue.
 - 3.PXE function is under tuning, E06 is released for test purpose.
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E05

- 1.modify BMC request dev, fun for LAN detect.
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E04

- 1.Adjust memory label.
 - 2.Adjust SATA label.
 - 3.Added Asmedia usb patch.
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E03

- 1.Remove SATA Redriver.
 - 2.Modify MEZZ slot setting.
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E02

- 1.Changed to 1DPC.
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E01

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1.Rename from MZ31-AR0 F04b to E01.
