

# BIOS Release Notes

## TITLE

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**SUBJECT:** MP32-AR0 BIOS Release Notes version [F32m](#)

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**System:** [E252-P30-00](#),[E252-P31-00](#),[G242-001-LT](#),[G242-002-UL](#),[G242-P30-JG](#),  
[G242-P30-LT](#),[G242-P31-00](#),[G242-P31-JG](#),[G242-P31-LT](#),[G242-P31-UL](#),  
[G242-P32-00](#),[G242-P32-QZ](#),[G242-P33-00](#),[G242-P34-00](#),[G242-P35-00](#),  
[G242-P36-00](#),[G242-P37-00](#),[G492-PD0-00](#),[G492-PD0-GB](#),[GR2134](#),  
[MP32-AR0-JG](#),[MP32-AR1-00](#),[MP32-AR1-SW-HZ-001](#),[MP32-AR2-00](#),  
[MPA2-G40-00](#),[R152-P30-00](#),[R152-P30-ES-Ambdedded-001](#),[R152-P30-JG](#),  
[R152-P31-00](#),[R152-P32-00](#),[R152-P33-00](#),[R272-P3A-PB](#),[R272-P30-00](#),  
[R272-P30-JG](#),[R272-P30-UL](#),[R272-P31-00](#),[R272-P31-JG](#),[R272-P32-00](#),  
[R272-P33-00](#),[R272-P3B-00](#),[R272-P3B-TS](#)

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## About This Release

**Build Date:** [2023/06/17](#)  
**BIOS Checksum:** [0xC33EB320](#) (32M)  
**Release Owner:** Yuan.Chen

## BIOS Components/Contents

**Processor stepping(s) supported:** Ampere eMAG2 processors  
**System hardware configurations supported:** MP32-AR0, MP32-AR1, MP32-AR2, MPA2-G40  
**PCB Version:** 1.x  
**Ampere Altra / Max SRP:** 2.10

### OPROM version :

OPROM	Version
AST2500	1.10.00

## Installation Notes

### IMPORTANT NOTES:

- Please extract the MP32-AR0\_F32m.zip file to a bootable diskette that use FAT/FAT32 format

### BIOS UPDATE FOR Easy BIOS Refresh:

- The system supports remotely update BIOS if BMC existent.
- Please download the Easy BIOS Refresh User Guide from Gigabyte website, target system support page.

### BIOS Version CHECK INSTRUCTIONS:

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

### BIOS UPDATE INSTRUCTIONS FOR Web UI:

- Connect BMC\_IP by Internet browser.
- Click Web-UI sub-page button "Update".

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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".

## Known Issues/Workarounds

### Issues fixed in this version

F32m (2023/06/17)

1. Support ROT BIOS information.
2. Support G492-PD0 PCIe auto bifurcation.

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F32L (2023/06/14)

1. Add ACS Server Ready patch.

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F32k (2023/06/08)

1. Support Setup item Serial Com Port GPIO switch function.

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F32j (2023/06/02)

1. Support External PCIe OPROM switch Setup item.

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F32i (2023/05/12)

1. Set R152-P31 BPB NVMe max speed to gen3.

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F32h (2023/05/02)

1. Fix AQtion AQC100 10G Lan card booting hang issue.

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F32g (2023/04/24)

1. Adjust BIOS CPU SLC item setting condition.
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F32F (2023/04/17)

1. Add OEM ipmi command.
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F32e (2023/02/15)

1. Fix SMBIOS Type129 HDD wrong device information.
  2. Update SMBIOS Type128 OEM version information.
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F32d (2023/01/09)

1. Fix R152-P33 System BPB Gen4 NVMe can't be detected issue.
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F32c (2023/01/05)

1. Adjust TSMC ROT offset layout.
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F32b (2022/12/19)

1. Support G242-P37-00 System Config.
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F32a (2022/12/16)

1. Add TSMC ROT broken image restore layout.
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F31w (2022/12/08)

1. Adjust Redfish inventory PCIe Onboard flag information.
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F31v (2022/12/01)

1. Adjust R272-P3B CBP2023 NVMe address.
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F31u (2022/11/23)

1. Modify the Redfish inventory PCIe Lan Firmware version string when no OPRM loading.
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F31t (2022/11/21)

1. Support SMBIOS Type130 serial number, part number.
  2. Add release note format SRP and PCB version information.
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F31s (2022/11/18)

1. Disable NVMe system SKU auto bifurcation patch.
2. Support R272-P3B PCIe and NVMe hotplug config.

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F31q (2022/11/02)

1. Support MPA2-G40 SKU re-driver setting.

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F31p (2022/10/11)

1. Support PCI/PCIe Error and Memory Error not to stop at POST.
2. Default Enable boardsetting PCIe AER Firmware-First.

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F31n (2022/09/30)

1. Update Release Note pdf format.

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F31m (2022/09/26)

1. Update SRP 2.10a.

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F31L (2022/09/29)

1. Fix system auto reset loop after PXE IPv6 boot fail issue.

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F31k (2022/08/10)

1. Modify SMBIOS Type130 Current Link speed to Max Link speed.
2. Disable PCIe auto bifurcation function when bifurcation mode is manual.

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F31j (2022/08/01)

1. Add Ampere patch for GPU driver issue for all supported system.

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F31h (2022/07/27)

1. Adjust SMBIOS Type130, Type131 Subsystem, SubVendor ID.
2. Reduce PCIe POST time when PCIe slot is empty.

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F31e (2022/07/04)

1. Adjust SMBIOS Type130 PCIe address data.

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F31d (2022/06/28)

1. Add SATA device information on POST screen.
2. Adjust R272-P30-UL BIOS customize item.
3. Fix can not directly boot CentOS when lack of prefix 'shim' efi files.
4. Fix R152-P30-ES-Ambedded system NVMe can not detect issue.

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5. Add BIOS setup CPU Numa DIMM requirement string.

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F31c (2022/06/22)

1. Adjust R152-P33 System PCIe and NVMe hotplug table.
2. Fix PCIe aspeed speed downgrade after system power cycle.

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F31b (2022/06/16)

1. Adjust Intel X710-DA2 initial PCIe settings.
2. Update Redfish Onboard device data.

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F31a (2022/06/13)

1. Update SRP 2.10.
2. Support CPU Altra / Altra Max.

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F18v (2021/12/01)

1. Adjust G242-P3x ACPI table
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