

# BIOS Release Notes

## TITLE

**SUBJECT:** MZ52-G40 BIOS Release Notes version R18d  
**System:** G492-ZD0-00, G492-ZL0-00

### About This Release

**Build Date:** 2021/06/03  
**BIOS Checksum:** 0xA756BB44 (32M)  
**Release Owner:** Ian.Liu

### BIOS Components/Contents

**Processor stepping(s) supported:** AMD Rome Processors  
**System hardware configurations supported:** MZ52-G40,  
**Microcode updates versions:**

CPUID	Family	Microcode Update ID
Rome A0	Family 17h Model 30-3Fh	08300027
Rome B0	Family 17h Model 30-3Fh	0830104D

**IPMI support:**  
**AMI Kernel version:** 5.14\_RomeCrb\_0ACMK019  
**AGESA PI version:** RomePI 1.0.0.9  
**OPROM version :**

OPROM	Version
AST2500	1.09.00

### Installation Notes

#### IMPORTANT NOTES:

1. Please extract the G492-ZD0\_R18d.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.

#### BIOS UPDATE INSTRUCTIONS FOR Windows:

1. Insert bios update USB flash drive.
2. Use Command Shell.
3. Enter \Tool\Win32 and execute f.bat for Windows 32bit.

Or

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Enter \Tool\Win64 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 KB4512534 to support it.

item	OS	Win2019	Win2016
IOMMU		Enable ※	Enable KB4022723
SMT Control		Enable 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

R18d

1. Update SATA redriver.
2. Set GPIO pin default.
3. Fine tune TCG function.
4. Disable AMI pure code set USB OC.

R18c

1. Remove PLX NVME patch.

R18b

1. Fine tune redriver function.

R18a

1. Update AGESA 1.0.0.9.

R17

1. Fine tune memory resource for NVME hotplug function.

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## R16

1. Fine tune G492-ZD0 redriver.
2. Fine tune GBT SVID function.
3. Fine tune PCIe information.
4. Fine tune P0\_P1 and P1\_P1 PCIe preset.
5. Add G492-ZL0-00 SKU.

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## R15

1. Updated AGESA 1.0.0.8.
2. Updated Redfish feature.
3. Security update for CVE-2020-10255 and CVE-2020-10713.
4. Fixed after clean CMOS system hang issue
5. Fine tune AC loss function.
6. Fine tune setup item.

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## R14

1. Add G492-Z51 SKU.
2. Fixed system wait long time randomly when boot in OS.
3. Fixed redfish load boot order default fail.
4. Fine tune AC Loss function to avoid POST hang code.
5. Set more SMBIOS size.

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## R13

1. Update redfish remote setup for boot order.
2. Fix CPU2 PCIe link speed item fail.
3. Fine tune PCIe initial.

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## R12

1. Update RomePI 1.0.0.7 kernel.
2. Update AMI kernel.
3. Add SKU G482-Z53-YF.
4. Update G482-Z51, G482-Z52, G492-Z50 and G482-Z53-YF re-driver
5. Set 3 xGMI link speed default.
6. Adjusted boot option maximum.
7. Update Redfish feature.
8. Core Performance Boost disable fail
9. Added onboard VGA default output priority option in UEFI mode.
10. BIOS Ready Timing change.
11. Fixed flash Naples BIOS crash issue.
12. Fixed IPMI Persistent Boot issue.
13. Fine tune BIOS setup default.

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## R11

1. Fixed Hot Plug function fail issue.
2. Fixed Shell screen re-flash issue.

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## R10

1. Update RomePI 1.0.0.6 kernel.
  2. Fine tune G492-Z50-00 IOResource.
  3. Fine tune G492-Z50 PCIe redriver.
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## R09

1. Fine tune PCIe behavior.
  2. Fine tune setup item.
  3. Fix some AMD PCIe card set GBT SVID.
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## R08

1. Update AGESA PI to 1.0.0.5.
  2. Fix POST memory log incorrect.
  3. Fixed X540, X550 legacy PXE boot failed.
  4. Fine tune G492-Z50 PCIe redriver.
  5. Fine tune setup item.
  6. Runtime disable turbo boost.
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## R07

1. Fine tune WebUI data.
  2. Set G492-Z50 Pcie data.
  3. Fine tune usb data for WHCK.
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## R06

1. Fix legacy PXE cannot work.
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## R05

1. Fixed NVIDIA and AMD GPU card driver BSOD issue.
  2. Fine tune ASMedia usb.
  3. Fine tune IO resource table.
  4. Add G482-Z52-00 sku.
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## R04

1. Update AGESA 1.0.0.4
  2. Adjusted Setup Menu default.
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## R02

1. Fine tune PCIe link speed behavior.
  2. Add GIGABYTE Quick Setting.
  3. Update PCIe Re-driver.
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## R01

1. PVT release.
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