

GIGABYTE™

BIOS UPDATE

For Intel 10th Gen Processor Platform
(GB-BR Series: i7-10710/i5-10210(E)/i3-10110, including HDD version)

User Guide

Rev. 1.0

Copyright

© 2021 GIGA-BYTE TECHNOLOGY CO., LTD. All rights reserved.

The trademarks mentioned in this manual are legally registered to their respective owners.

Disclaimer

Information in this manual is protected by copyright laws and is the property of GIGABYTE. Changes to the specifications and features in this manual may be made by GIGABYTE without prior notice. No part of this manual may be reproduced, copied, translated, transmitted, or published in any form or by any means without GIGABYTE's prior written permission.

Documentation Classifications

In order to assist in the use of this product, GIGABYTE provides the following types of documentation:

- User Manual: detailed information & steps about the installation, configuration and use of this product (e.g. motherboard, server barebones), covering hardware and BIOS.
- User Guide: detailed information about the installation & use of an add-on hardware or software component (e.g. BMC firmware, rail-kit) compatible with this product.
- Quick Installation Guide: a short guide with visual diagrams that you can reference easily for installation purposes of this product (e.g. motherboard, server barebones).

Please see the support section of the online product page to check the current availability of these documents.

For More Information

For related product specifications, the latest firmware and software, and other information please visit our website at <http://www.gigabyte.com>

For GIGABYTE distributors and resellers, additional sales & marketing materials are available from our reseller portal: <http://reseller.b2b.gigabyte.com>

For further technical assistance, please contact your GIGABYTE representative or visit <https://esupport.gigabyte.com/> to create a new support ticket

For any general sales or marketing enquiries, you may also message GIGABYTE server directly by email: server.grp@gigabyte.com

Table of Contents

Chapter 1 BIOS Update	5
-----------------------------	---

This page intentionally left blank

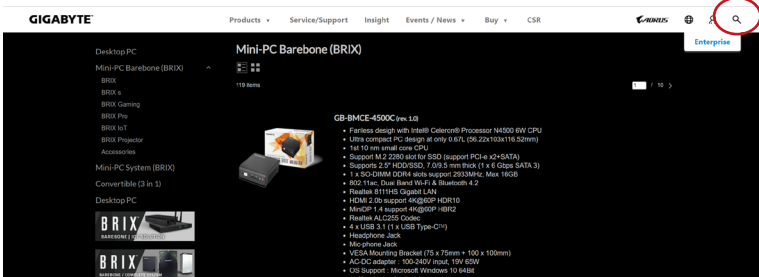
Chapter 1 BIOS Update

UEFI Shell



- Follow these instructions to update BIOS:

1. Go to the Gigabyte website (<https://www.gigabyte.com/us/Mini-PcBarebone>) and key in the model name in the search bar to access the product page.






2. Go to "Support" page and look for the latest BIOS file. Click "Download".



GB-BMCE-4500C (rev. 1.0) Key Features Specification Support News & Awards Buy

Downloads Manual Support List FAQ

Downloads
Download from the server closest to you - Asia, China, North America, Europe, Russia
Download(s)
BIOS(-s)

Version	Size	Date	Download	Description
F5	8.00 MB	2021/07/29		BIOS File - Random Boot Failures Issue
-	9.00 MB	2021/07/21		Please download BIOS update tool from AMI Website
1.0	3.52 MB	2021/05/05		BR1X Jasper Lake series BIOS initial release

3. Download BIOS update tool from AMI website.
4. Copy "AfuEfix64.efi" into the BIOS folder.

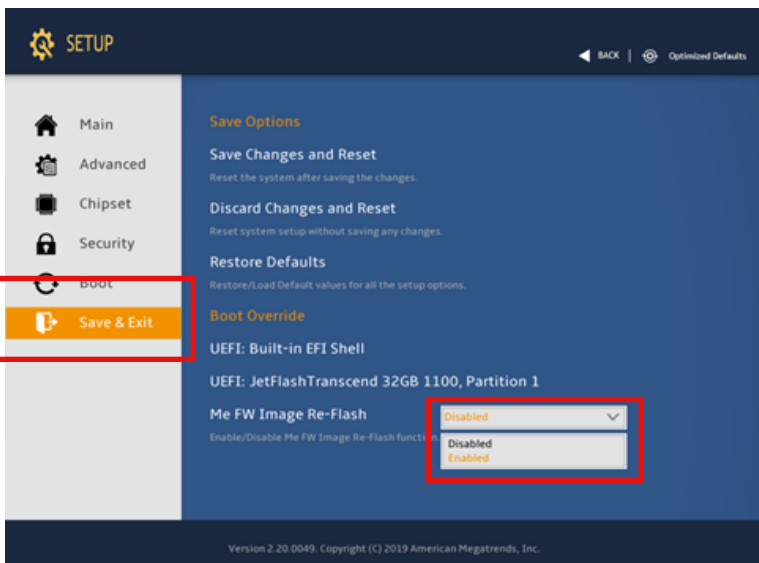
F5_BIOS

Share View

TRANSCEND (E:) > BIOS > F5_BIOS

Name	Date modified	Type	Size
afuefix64.efi	11/29/2018 4:38 PM	EFI File	550 KB
FLASH	5/18/2020 2:12 PM	NSH File	1 KB
image.bin	3/25/2019 10:38 AM	BIN File	16,384 KB

5. Power on BR1X and press "DEL" to enter the BIOS setting page. Then go to Save & Exit tab. Set "ME FW Image Re-Flash" to Enable. (For Intel platform only)



SETUP BACK | Optimized Defaults

- Main
- Advanced
- Chipset
- Security
- BOOT**

Save & Exit

Save Options

Save Changes and Reset
Reset the system after saving the changes.

Discard Changes and Reset
Reset system setup without saving any changes.

Restore Defaults
Restore/Load Default values for all the setup options.

Boot Override

UEFI: Built-in EFI Shell

UEFI: JetFlashTranscend 32GB 1100, Partition 1

Me FW Image Re-Flash
Enable/Disable Me FW Image Re-Flash function

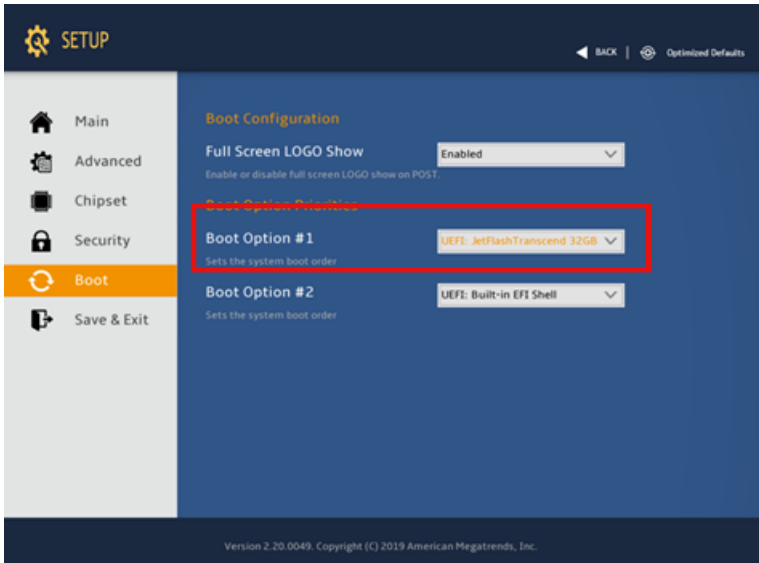
Disabled

Disabled

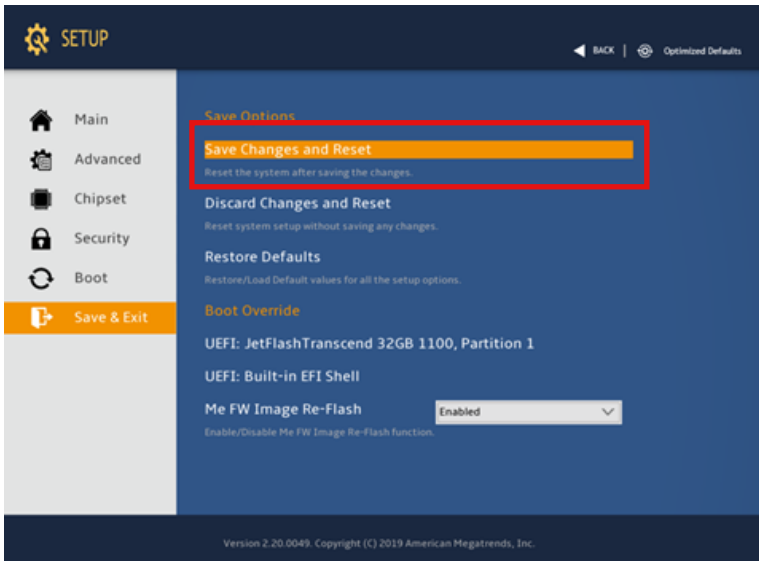
Enabled

Version 2.20.0049. Copyright (C) 2019 American Megatrends, Inc.

6. Go to Boot Option #1 and choose your USB Flash device accordingly.



7. Click "Save Changes and Reset" to save configuration and exit, then select "Yes".



8. All the devices will be displayed on the screen, then type "fs0" to select your USB drive.

```
EFI Shell version 2.70 [5.16]
Current running mode 1.1.2
Device mapping table
fs0 :Removable HardDisk - Alias hd900b blk0
      PciRoot(0x0)/Pci(0x14,0x0)/USB(0xE,0x0)/HD(1,MBR,0x1403694F,0x800,0x3F)
4C800)
  blk0 :Removable HardDisk - Alias hd900b fs0
        PciRoot(0x0)/Pci(0x14,0x0)/USB(0xE,0x0)/HD(1,MBR,0x1403694F,0x800,0x3F)
4C800)
  blk1 :Removable BlockDevice - Alias (null)
        PciRoot(0x0)/Pci(0x14,0x0)/USB(0xE,0x0)

Press ESC in 1 seconds to skip startup.nsh, any other key to continue.
Shell> fs0:
fs0:\> _
```

9. Enter the BIOS folder and type "flash.nsh" to start the BIOS update process.

```
fs0:\BIOS\MCMLUAB> cd F2_BIOS

fs0:\BIOS\MCMLUAB\F2_BIOS> ls
Directory of: fs0:\BIOS\MCMLUAB\F2_BIOS

06/05/20 02:15p <DIR>          16,384 .
06/05/20 02:15p <DIR>          16,384 ..
05/18/20 03:30p                61 flash.bat
05/18/20 02:12p                78 FLASH.NSH
12/05/19 08:09p          33,554,432 image.bin
12/03/19 02:32p           572,016 AfuEfix64.efi
      4 File(s)  34,126,587 bytes
      2 Dir(s)
```

```
fs0:\BIOS\MCMLUAB\F2_BIOS> flash.nsh_
```

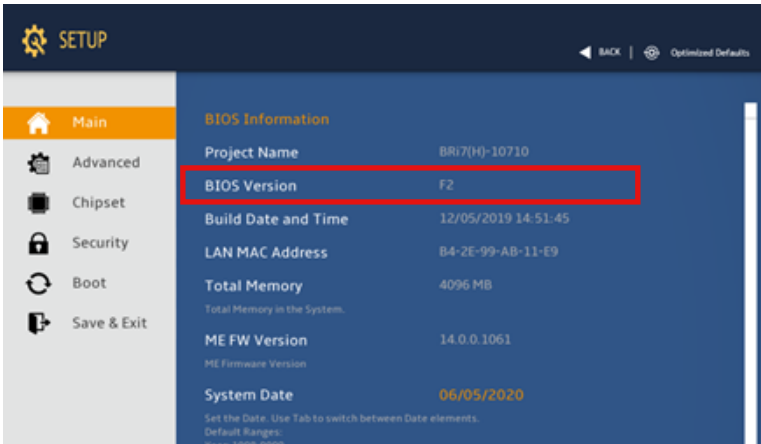

10. After a few minutes, you will see the following screen during the update.

```
fs0:\BIOS\MCHLUAB\F2_BIOS> flash.nsh
flash.nsh> AfuEfi\64.efi image.bin /X /ME
-----
          AMI Firmware Update Utility v5.12.03.2074
          Copyright (c) 1985-2019, American Megatrends International LLC.
          All rights reserved. Subject to AMI licensing agreement.
-----
- ME Data Size Checking ..... ok
- System Secure Flash ..... Enabled
Loading The ME Data To BIOS ..... Done
- Update success for FDR
- Update success for GBER
- Update success for DER2
- Update MER ..... X

-----
- ME Data Size Checking ..... ok
- System Secure Flash ..... Enabled
Loading The ME Data To BIOS ..... Done
- Update success for FDR
- Update success for GBER
- Update success for DER2
- Update success for MER
WARNING !!
System must power-off to have the changes which take effect!

Process completed.
flash.nsh> AfuEfi\64.efi image.bin /X /P /B /N /L /REBOOT
-----
          AMI Firmware Update Utility v5.12.03.2074
          Copyright (c) 1985-2019, American Megatrends International LLC.
          All rights reserved. Subject to AMI licensing agreement.
-----
Reading flash ..... Done
- ME Data Size Checking ..... ok
- System Secure Flash ..... Enabled
- FFS Checksums ..... Pass
- Check RomLayout ..... Pass
Loading File To Verify Memory ..... Done
_Erasing Boot Block ..... 0x008FC000 (5%)
```

11. Reboot the device then you'll find the BIOS version has been updated accordingly.

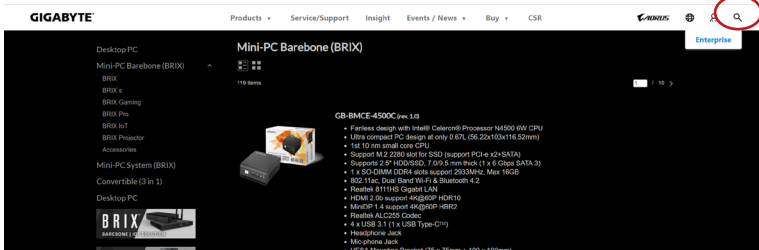


Windows

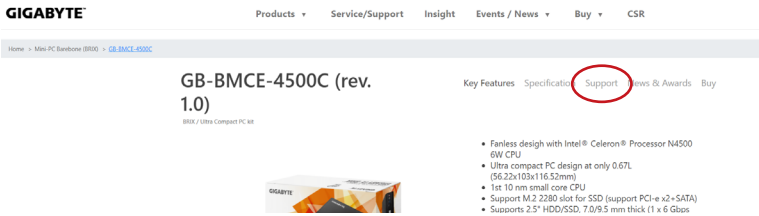


Follow these instructions to update BIOS:

1. Go to the Gigabyte website (<https://www.gigabyte.com/us/Mini-PcBarebone>) and key in the model name in the search bar to access the product page.



2. Go to "Support" page and look for the latest BIOS file. Click "Download".



GB-BMCE-4500C (rev. 1.0) Key Features Specification Support News & Awards Buy

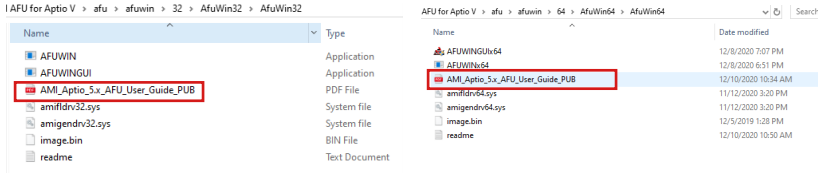
Downloads Manual Support List FAQ

Downloads
Download from the server closest to you - Asia, China, North America, Europe, Russia
Dlwin(49)
BIOS(43)

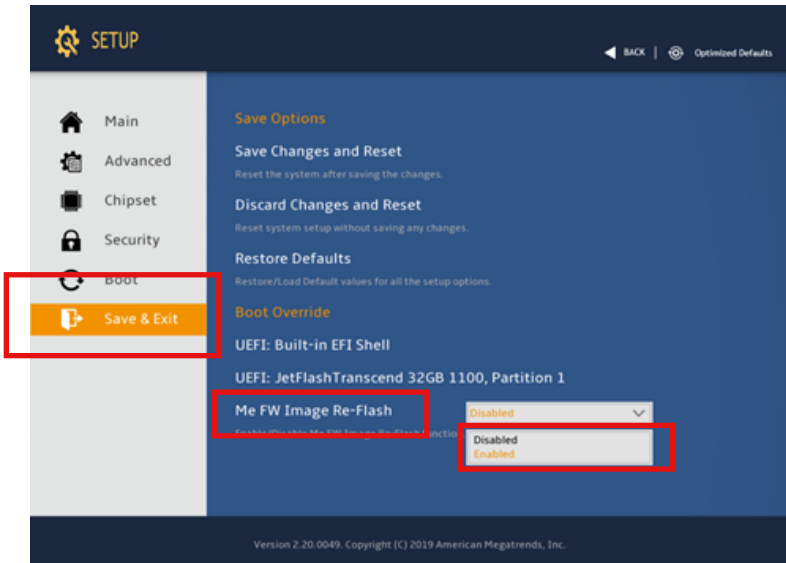
Version	Size	Date	Download	Description
F5	5.60 MB	2021/07/29		BIOS Fixed - Random Boot Failures Issue
-	0.00 MB	2021/07/21		Please download BIOS update tool from AMI Website

3. Download BIOS update tool from AMI website.

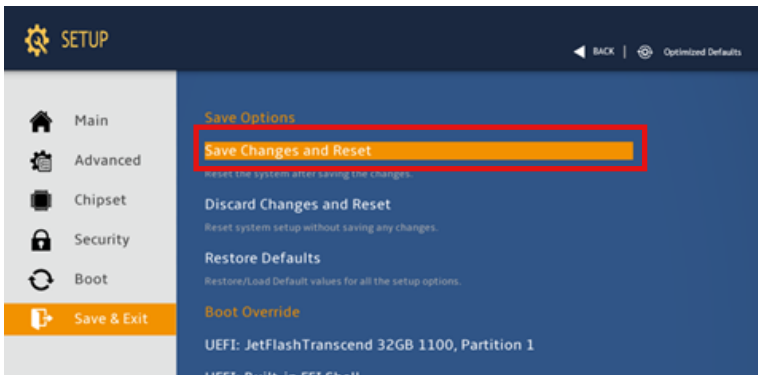
- Copy BIOS image.bin file to AMI flash tool folder.



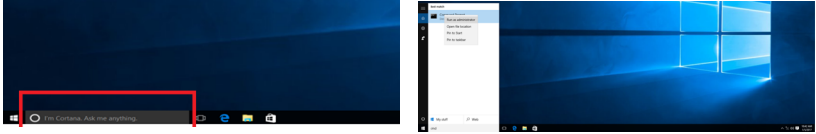
- Power on BRIX and press "DEL" to enter the BIOS setting page. Then go to "Save & Exit" to change "ME FW Image Re-Flash" to "Enable" (Intel platform only).



- Click "Save Changes and Reset" to save configuration and exit, then select "Yes".



7. Boot to Windows and enter "cmd" mode.



8. Enter the BIOS Package folder.

```
Command Prompt
D:\BIOS\VMGLKAB\F4_BIOS\F4_BIOS>dir/w
Volume in drive D is TRANSCEND
Volume Serial Number is DEEF-BFEB

Directory of D:\BIOS\VMGLKAB\F4_BIOS\F4_BIOS

[.]          [..]          image.bin      flash.bat      amifldr64.sys  afuwinx64.exe
4 File(s)   17,417,848 bytes
2 Dir(s)    23,744,788,608 bytes free

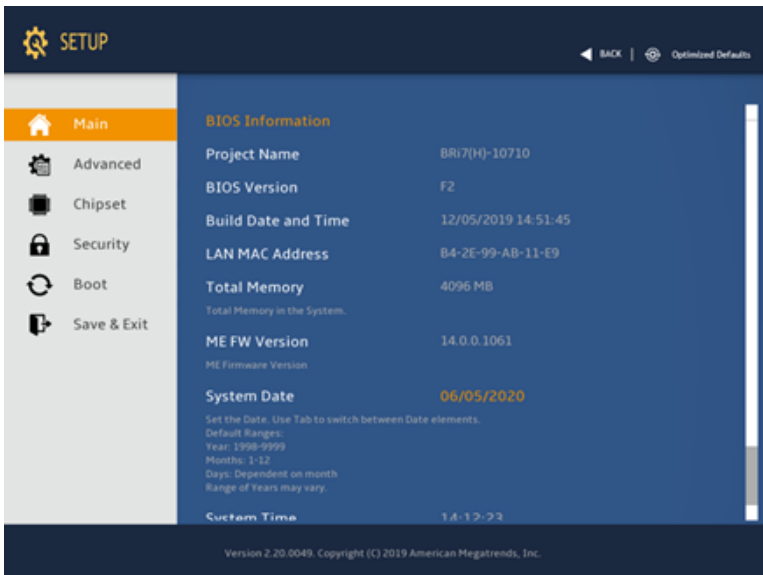
D:\BIOS\VMGLKAB\F4_BIOS\F4_BIOS>Flash.bat
```

9. Run "Flash.bat" to start the BIOS updating process.

```
D:\BIOS\MCM\UAB\F2_BIOS\AFU\WIN64.EXE
-----
AMI Firmware Update Utility v5.12.03.2074
Copyright (c) 1985-2019, American Megatrends International LLC.
All rights reserved. Subject to AMI licensing agreement.
-----
- ME Data Size Checking ..... OK
- System Secure Flash ..... Enabled
Loading The ME Data To BIOS ..... Done
- Update success for FDR
- Update success for GBER
- Update success for DER2
- Update HER ..... /
```

```
D:\BIOS\MCM\UAB\F2_BIOS\AFU\WIN64.EXE
-----
AMI Firmware Update Utility v5.12.03.2074
Copyright (c) 1985-2019, American Megatrends International LLC.
All rights reserved. Subject to AMI licensing agreement.
-----
Reading Flash ..... Done
- ME Data Size Checking ..... OK
- System Secure Flash ..... Enabled
- FFS Checksums ..... Pass
- Check RomLayout ..... Pass
Loading File To Verify Memory ..... Done
Erasing Boot Block ..... 0x00952000 (15%)
```

10. Restart your system and press “DEL” to enter BIOS. The latest BIOS version will be displayed on the screen accordingly.



This page intentionally left blank