

GIGABYTE™

BIOS UPDATE

Intel 11th Gen Processor Platform
(GB-BS series :i7-1165G7/i5-1135G7/i3-1115G4)

User Guide

Rev. 1.0

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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

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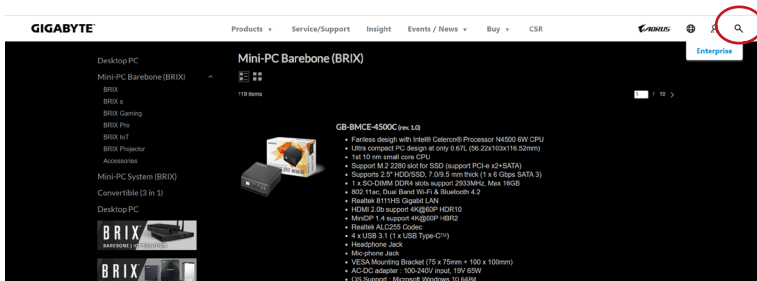
Chapter 1 BIOS Update

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".

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Home > Mini-PC Barebone (BR1X) > [GB-BMCE-4500C](#)

GB-BMCE-4500C (rev. 1.0)

Mini / Ultra Compact PC Kit

Key Features Specification **Support** News & Awards Buy

- Fanless design with Intel® Celeron® Processor N4500 6W CPU
- Ultra compact PC design at only 0.67L (56.22x109x116.52mm)
- 1st 10 nm small core CPU
- Support M.2 2280 slot for SSD (support PCI-e x2 + SATA)
- Supports 2.5" HDD/SSD, 7.0/9.5 mm thick (1 x 6 Gbps SATA 3)
- 1 x SO-DIMM DDR4 slots support 2933MHz, Max 16GB
- 802.11ac Dual Band Wi-Fi & Bluetooth 4.2
- Realtek 8111HS Gigabit LAN
- HDMI 2.0b support 4K@60P HDR10

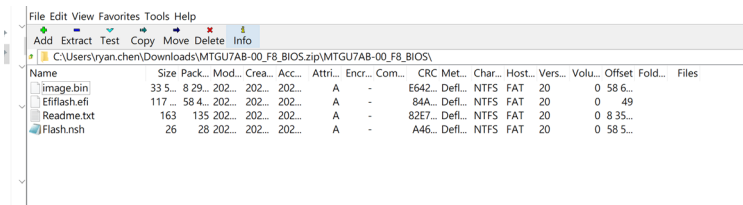
GB-BMCE-4500C (rev. 1.0) Key Features Specification **Support** News & Awards Buy

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Driver(s)
BIOS(s)

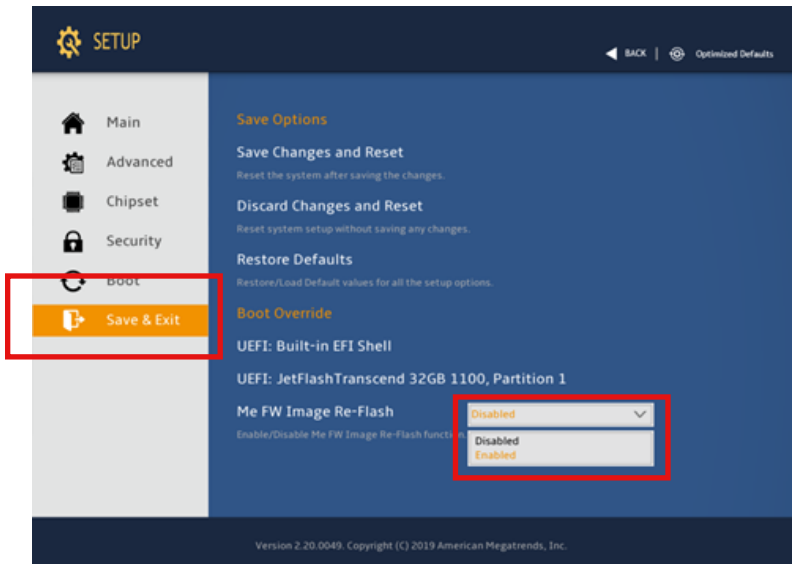
Version	Size	Date	Download	Description
F5	5.00 MB	2021/07/29		BIOS Fixed: Random Boot Failures issue
-	0.00 MB	2021/07/21		Please download BIOS update tool from AMI Website
1.0	5.52 MB	2021/10/05		BR1X Jasper Lake series BIOS initial release

3. Copy BIOS Package into the BIOS folder.

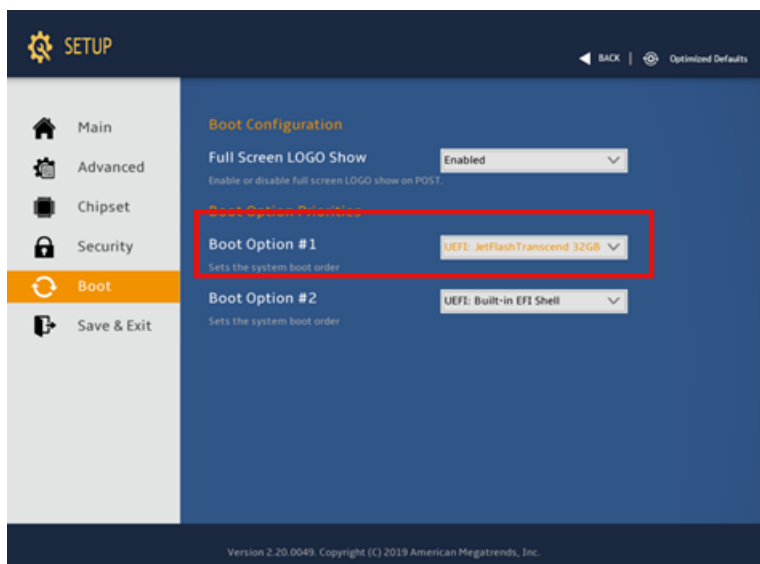


5. Power on BRIX and press “DEL” to enter the BIOS setting page. Then go to “Chipset” tab and set “BIOS Lock” to disable. (Intel platform only)

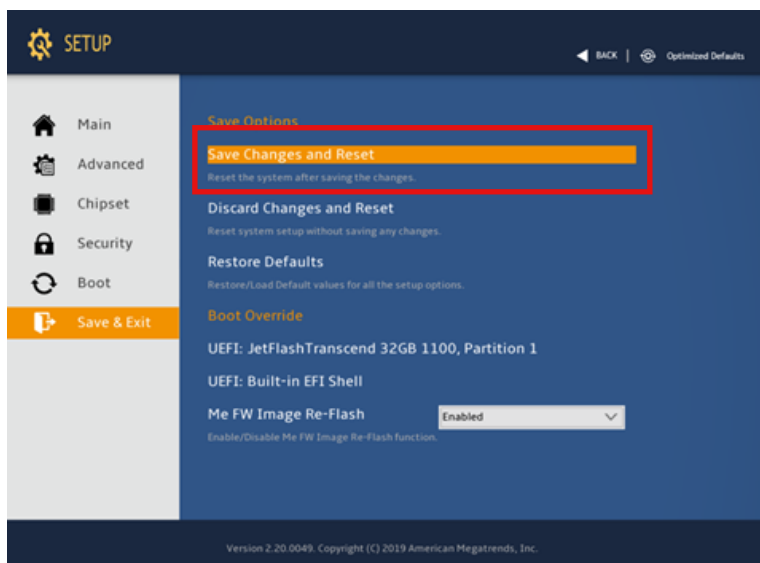
6. Go to “Save & Exit” tab and set “ME FW Image Re-Flash” to Enable. (Intel platform only)



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,0x800,0x3A
4C800)
blk0 :Removable HardDisk - Alias hd900b fs0
    PciRoot(0x0)/Pci(0x14,0x0)/USB(0xE,0x0)/HD(1,MBR,0x1403694F,0x800,0x3A
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.

```
EFI Shell version 2.70 [5.16]
Current running mode 1.1.2
Device mapping table
fs0 :Removable HardDisk - Alias hd14000b blk0
    PciRoot(0x0)/Pci(0x2,0x4)/Pci(0x0,0x0)/USB(0x3,0x0)/USB(0x3,0x0)/HD(1,MBR,0x3620C9E4,0x800,0x3C2F7F)
blk0 :Removable HardDisk - Alias hd14000b fs0
    PciRoot(0x0)/Pci(0x2,0x4)/Pci(0x0,0x0)/USB(0x3,0x0)/USB(0x3,0x0)/HD(1,MBR,0x3620C9E4,0x800,0x3C2F7F)
blk1 :Removable BlockDevice - Alias (null)
    PciRoot(0x0)/Pci(0x2,0x4)/Pci(0x0,0x0)/USB(0x3,0x0)/USB(0x3,0x0)

Press ESC in 4 seconds to skip startup.nsh, any other key to continue.
Shell>
Shell> fs0:

fs0:\> cd F5_BIOS

fs0:\F5_BIOS> dir
Directory of: fs0:\F5_BIOS

11/18/21 02:11p <DIR>          4,096 .
11/18/21 02:11p <DIR>          0 --
06/05/20 07:00p             117,888 EfiFlash.efi
09/24/20 04:21p              26 flash.nsh
05/05/21 02:44p          16,777,216 image.bin
10/27/20 03:52p              71 Readme.txt

  4 File(s) 16,895,201 bytes
  2 Dir(s)
```

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

```
fs0:\BIOS\MCHLUAB\F2_BIOS> flash.nsh
flash.nsh> AfuEf1x64.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

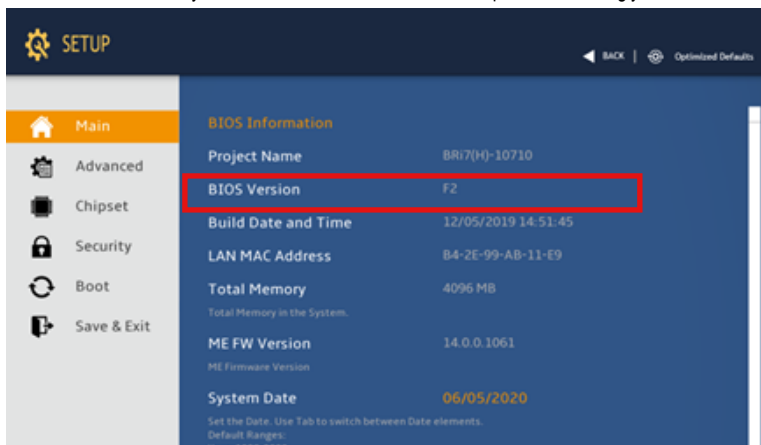
-----
- ME Data Size Checking ..... ok
- System Secure Flash ..... Enabled
Loading The ME Data To BIOS ..... Done
- Update success for FDR
- Update success for GBER
- Update success for DER2
- Update success for MER

WARNING !!
System must power-off to have the changes which take effect!

Process completed.
flash.nsh> AfuEf1x64.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.



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