

BIOS Update SOP

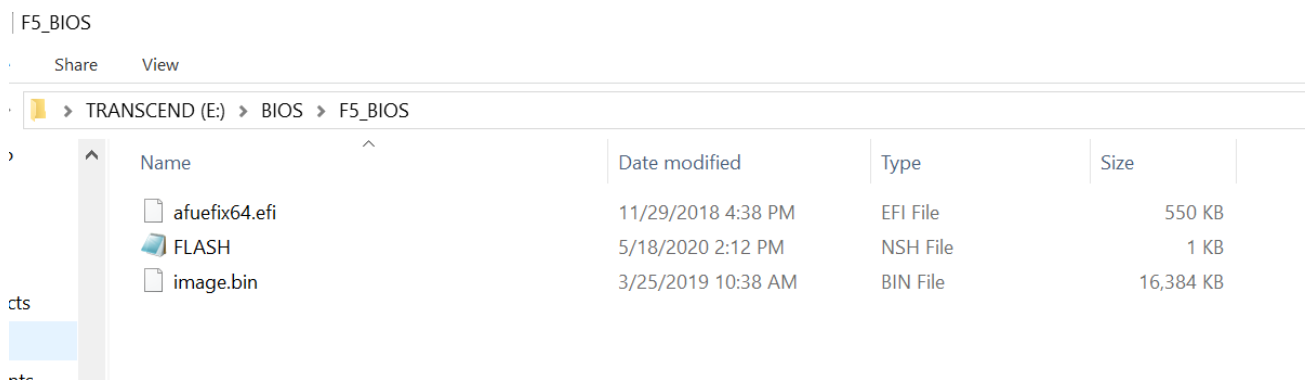
UEFI Shell

1. Download BIOS Package
2. Download BIOS update tool from AMI website.

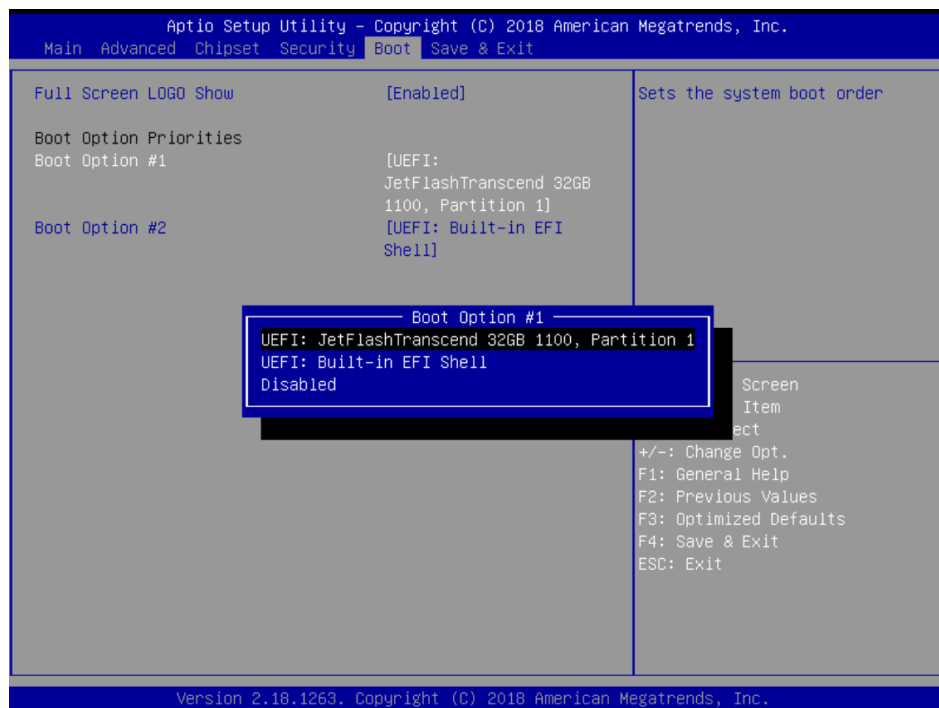
URL:

https://ami.com/en/download-license-agreement/?DownloadFile=Aptio_4_AMI_Firmware_Update_Utility.zip

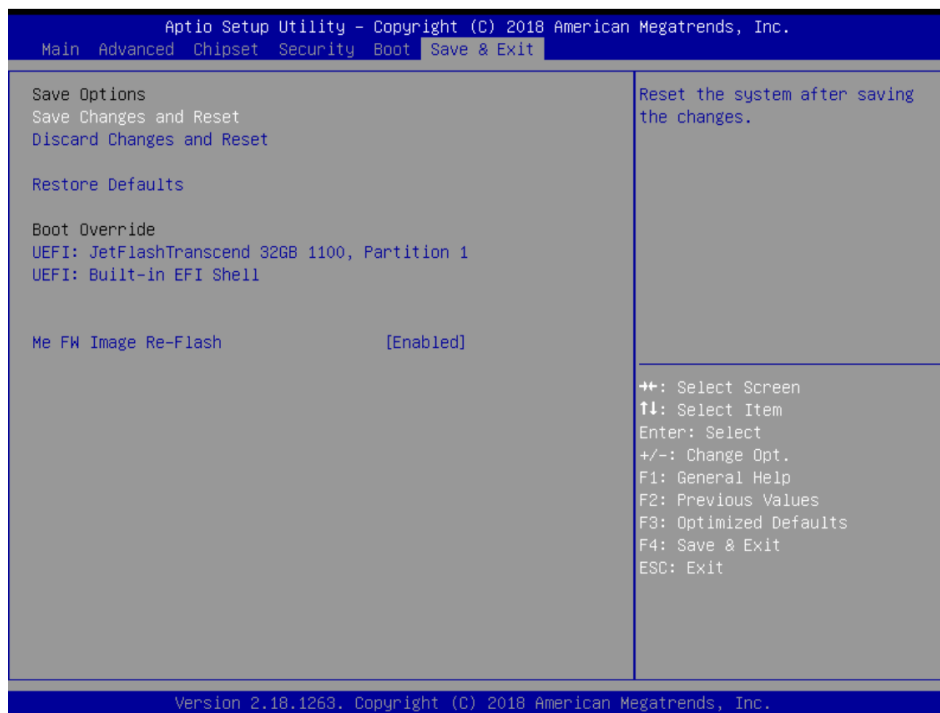
3. Copy "AfuEfix64.efi" into BIOS folder.



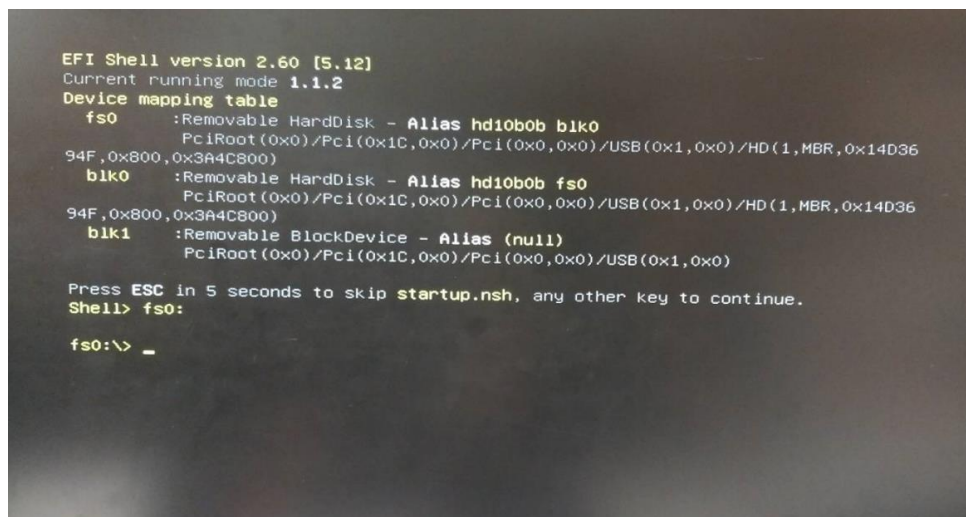
4. Change Boot Option #1 to USB Flash device



- Press Save Changes and Reset to save configuration and exit. Select Yes.



- Screen will display all devices. Type **fs0:** to select USB drive.



7. Enter the BIOS folder and then type “flash.nsh” to flash BIOS

```
fs0:\BIOS\MFLP5IP-00\F5_BIOS> ls
Directory of: fs0:\BIOS\MFLP5IP-00\F5_BIOS

05/18/20  02:01p <DIR>          16,384 .
05/18/20  02:01p <DIR>          16,384 ..
11/29/18  04:38p              562,288 afuefix64.efi
05/18/20  02:12p              78      FLASH.NSH
03/25/19  10:38a          16,777,216 image.bin
          3 File(s)  17,339,582 bytes
          2 Dir(s)
```

```
fs0:\BIOS\MFLP5IP-00\F5_BIOS> flash.nsh_
```

8. It may take a few minutes and you will see the following screen during BIOS update.

```
Process completed.
flash.nsh> AfuEfix64.efi image.bin /X /P /B /N /L /REBOOT
+-----+
|               AMI Firmware Update Utility v5.11.06.1854               |
|   Copyright (C)2018 American Megatrends Inc. All Rights Reserved.   |
+-----+
Reading flash ..... done
- ME Data Size checking . ok
Secure Flash enabled, recalculate ROM size with signature... Enable.
- FFS checksums ..... ok
- Check RomLayout ..... ok.
Loading capsule to secure memory buffer ... done
_Erasing Boot Block ..... 0x0040A000 (10%)
```

9. Reboot and you can find BIOS updated to the one flashed.

```
Aptio Setup Utility - Copyright (C) 2019 American Megatrends, Inc.
Main Advanced Chipset Security Boot Save & Exit

BIOS Information
Project Name          GB-BRi5(H)-8250
BIOS Version          F5
Build Date and Time   02/25/2019 12:07:05
LAN MAC Address       E0-D5-5E-C6-E1-15
Total Memory          4096 MB
ME FW Version         11.8.60.3561
System Date           [Sun 05/17/2020]
System Time           [23:17:52]

Set the Date. Use Tab to
switch between Date elements.

++: Select Screen
↑↓: Select Item
Enter: Select
+/-: Change Opt.
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Exit
ESC: Exit

Version 2.18.1263. Copyright (C) 2019 American Megatrends, Inc.
```

Windows

1. Download BIOS Package
2. Download BIOS update tool from AMI website.

URL:

https://ami.com/en/download-license-agreement/?DownloadFile=Aptio_4_AMI_Firmware_Update_Utility.zip

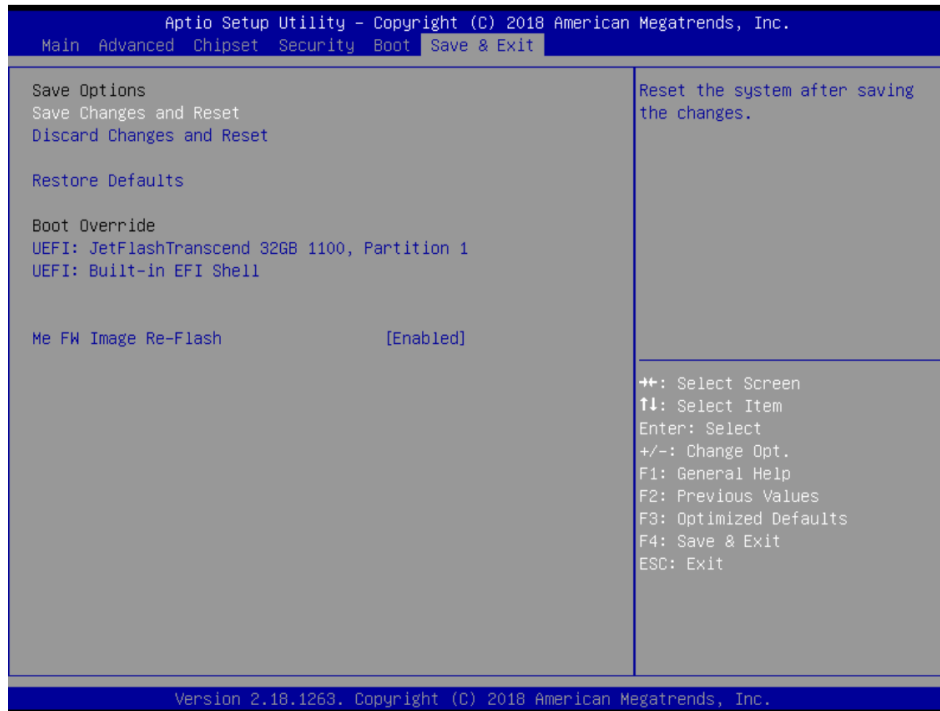
3. Copy below file to BIOS Package

Folder	File
Tool\WIN\Win32	AFUWIN.EXE amifldr32.sys
Tool\WIN\Win64	AFUWINx64.EXE amifldr64.sys

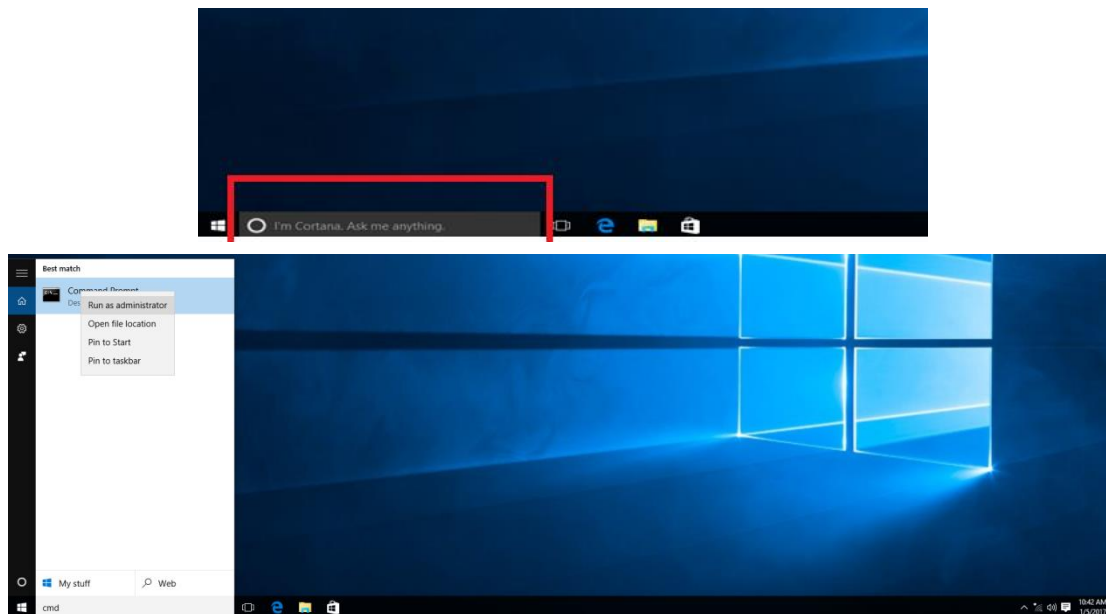
TRANSCEND (E:) > BIOS > F5_BIOS				
Name	Date modified	Type	Size	
image.bin	3/25/2019 10:38 AM	BIN File	16,384 KB	
flash	5/18/2020 3:30 PM	Windows Batch File	1 KB	
amifldr32.sys	7/23/2019 4:03 PM	System file	10 KB	
AFUWIN	12/3/2019 2:30 PM	Application	534 KB	

TRANSCEND (E:) > BIOS > F5_BIOS				
Name	Date modified	Type	Size	
image.bin	3/25/2019 10:38 AM	BIN File	16,384 KB	
amifldr64.sys	3/30/2017 12:05 AM	System file	19 KB	
afuwinx64	11/29/2018 4:37 PM	Application	607 KB	
flash	5/18/2020 3:30 PM	Windows Batch File	1 KB	

4. Turn on BRIX, press DEL enter BIOS setting then Press Save Changes and Reset to save configuration and exit. Select Yes.



5. Boot to Windows and into "cmd" mode



6. into BIOS Package folder

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.10586]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd\

C:\>cd F2_BIOS

C:\F2_BIOS>flash
```

7. Run "Flash.bat" to start update BIOS.

```
Administrator: Command Prompt
- Update success for GBER
- Update success for MER
WARNING : System must power-off to have the changes take effect!

Process completed.

C:\Users\G G\Desktop\Win_x64>afuwinx64.exe image.bin /p /b /n
-----
      AMI Firmware Update Utility v5.11.06.1854
      Copyright (C)2018 American Megatrends Inc. All Rights Reserved.
-----
Reading flash ..... done
- ME Data Size checking . ok
Secure Flash enabled, recalculate ROM size with signature... Enable.
- FFS checksums ..... ok
- Check RomLayout ..... ok.
Loading capsule to secure memory buffer ... done
Erasing Boot Block ..... done
Updating Boot Block ..... done
Verifying Boot Block ..... done
Erasing Main Block ..... done
Updating Main Block ..... done
Verifying Main Block ..... done
Erasing NVRAM Block ..... done
Updating NVRAM Block ..... done
Verifying NVRAM Block ..... done

Process completed.

C:\Users\G G\Desktop\Win_x64>
```

8. BRIX will restart automatically, you can press DEL enter BIOS to check BIOS version.

```
Aptio Setup Utility - Copyright (C) 2019 American Megatrends, Inc.
Main Advanced Chipset Security Boot Save & Exit

BIOS Information
Project Name          GB-BR15(H)-8250
BIOS Version          F5
Build Date and Time   02/25/2019 12:07:05

LAN MAC Address       E0-D5-5E-C6-E1-15

Total Memory          4096 MB

ME FW Version         11.8.60.3561

System Date           [Sun 05/17/2020]
System Time           [23:17:52]

Set the Date. Use Tab to
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++: Select Screen
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```