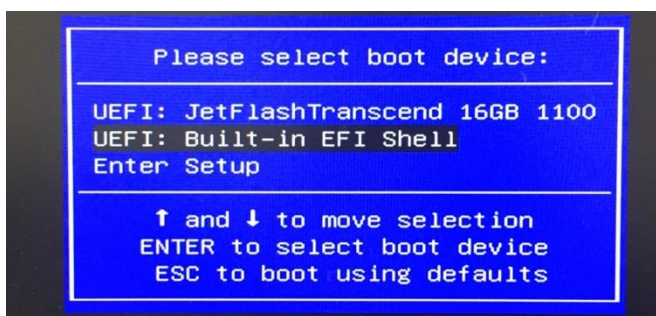


How to flash BIOS in EFI mode?

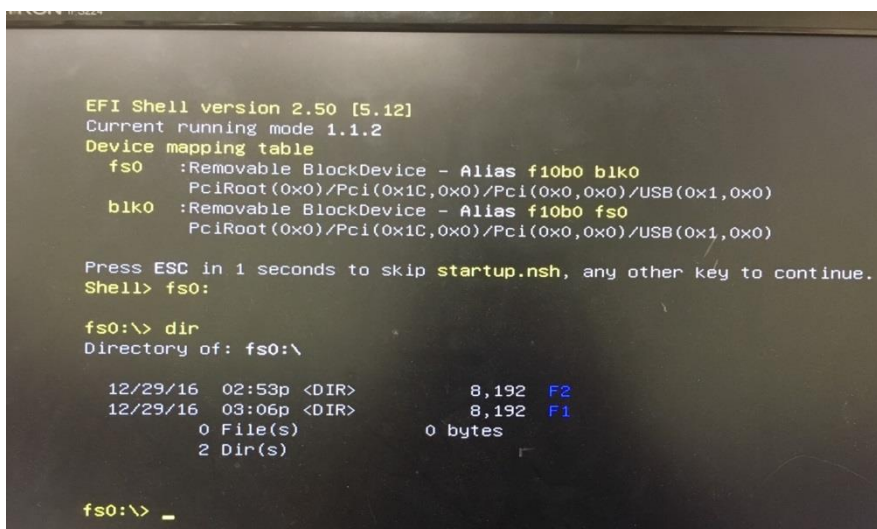
Before flashing BIOS, please **prepare an USB flash drive** and **do NOT connect any hard disk or M.2** to this BRIX.

1. Download BIOS file from product page and unzip it. Save those files (image.bin, flash.nsh, afuefix64.efi) to USB flash drive (F2 folder in this example).
2. Press F12 during POST to select boot device: **"UEFI: Built-in EFI Shell"**



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

Note: if more than 1 drives are connected, you need to select the drive which contains BIOS file.



4. Enter the folder (our files were saved in F2 folder, so we type CD F2 then enter).

Thereafter, please type flash.nsh to flash BIOS.

```

EFI Shell version 2.50 [5.12]
Current running mode 1.1.2
Device mapping table
  fs0 :Removable BlockDevice - Alias f10b0 blk0
        PciRoot(0x0)/Pci(0x1C,0x0)/Pci(0x0,0x0)/USB(0x1,0x0)
  blk0 :Removable BlockDevice - Alias f10b0 fs0
        PciRoot(0x0)/Pci(0x1C,0x0)/Pci(0x0,0x0)/USB(0x1,0x0)

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

fs0:\> dir
Directory of: fs0:\

    12/29/16  02:53p <DIR>          8,192  F2
    12/29/16  03:06p <DIR>          8,192  F1
            0 File(s)          0 bytes
            2 Dir(s)

fs0:\> cd f2

fs0:\F2> flash.nsh_

```

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

```

fs0:\APLBP00_F8\APLBP00_F8> flash
flash> AfuEfi64.efi image.bin /p /b /n /reboot
+-----+
|               AMI Firmware Update Utility v5.09.04.1503               |
|               Copyright (C)2017 American Megatrends Inc. All Rights   |
+-----+
Reading flash ..... done
Secure Flash enabled, recalculate ROM size with signature.
- 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 ..... 0x005DB000 (38%)

```

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

```

Aptio Setup Utility - Copyright (C) 2016 American
Main Advanced Chipset Security Boot Save & Exit

BIOS Information

Project Name                GB-BK13(H)A-7100
BIOS Version                F2
Build Date and Time         12/21/2016 16:49:52

LAN MAC Address             1C-1B-0D-2C-12-99

Total Memory                 4096 MB

ME FW Version               11.5.0.1058

System Date                 [Thu 12/29/2016]
System Time                 [15:58:36]

```