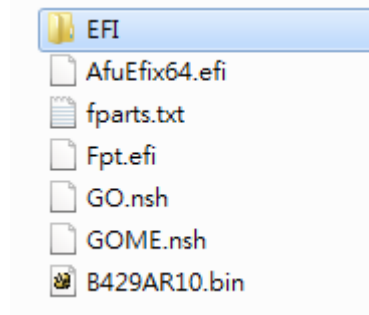


How to flash BIOS under UEFI Shell mode

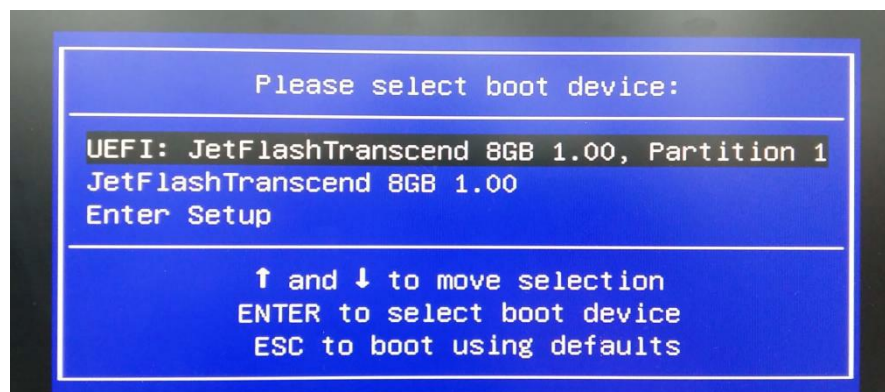
Step 1 : Prepare an USB flash drive and format it to FAT(or FAT32).

Step 2 : Extract BIOS release package(EX: xxx_ARxx.zip) to the root directory of USB drive.

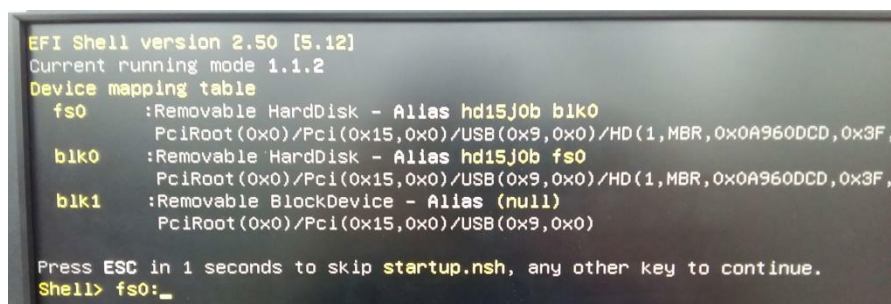


Step 3 : Connect USB flash drive to computer.

Step 4 : During the computer rebooting, press [F7] key into BBS boot device menu and select [UEFI: your USB drive].



Step 5 : The computer will boot into shell mode, then type command **fs0:** and press [Enter].



Step 6 : Type [go] & [go me] & [go bios] & [go ec] then press [Enter] for update BIOS&EC.

EX1 : Command for update BIOS&EC without CSME/TXE Firmware: **go** (Update BIOS&EC)

```
fs0:\SAU3A416> go_

Erase Verify... : ██████████ -- Verify OK.
Programing...   : ██████████ -- Programing OK.
Verify...       : ██████████ -- Verify OK.
*****Notice!!*****
Start updating BIOS without touching ME firmware
*****
+-----+
|          AMI Firmware Update Utility v5.14.02.0026          |
| Copyright (c) 1985-2021, American Megatrends International LLC. |
| All rights reserved. Subject to AMI licensing agreement.      |
+-----+
Reading flash ..... Done
- ME Data Size Checking ..... Pass
- FFS Checksums ..... Pass
- Check RomLayout ..... Pass
- Warning: System doesn't have Type-1 structure to preserve
_Erasing Main Block ..... 0x0037C000 (17%)
```

EX2 : Command for update BIOS/EC with CSME/TXE Firmware: **go me** (Update BIOS&EC&ME FW)

```
fs0:\SAU3A416> go me
*****Notice!!*****
Start updating both BIOS and ME firmware.

Before processing,
(1) Go into MEBX menu by pressing 'Ctrl+P' during POST,
and disable ME manually in ME configurations.
(2) Otherwise, this utility will disable ME automatically and reboot,
user MUST re-execute the batch again.

Any AMT/ME data will be lost.
*****
Enter 'q' to quit, any other key to continue:

Erasing... : ██████████ -- Erase OK.
Erase Verify... : ██████████ -- Verify OK.
Programing... : ██████████ -- Programing OK.
Verify... : ██████████ -- Verify OK.
*****Notice!!*****
Start updating BIOS without touching ME firmware
*****
Intel (R) Flash Programming Tool Version: 15.40.10.2268
Copyright (C) 2005 - 2021, Intel Corporation. All rights reserved.

Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
ID:0xEF4019 Size: 32768KB (262144Kb)

GbE Region does not exist.

Processing Flash memory block 0 from 8191.
- Erasing Flash Block [0x001000] - 100 percent complete.
Flash device was programmed. It is recommended to perform
G3 power cycle to complete the flashing process.

FPT Operation Successful.

*****
Flash process completed.
Please turn power supply off and on for restarting system.
*****
```


Note: If **go me** have error as shown in the PICTURE

```
Reading HSFSTS register... Flash Descriptor: Valid

--- Flash Devices Found ---
ID:0xEF4019    Size: 32768KB (262144Kb)

Warning: Unable to detect if ME was disabled.
Do you wish to proceed with the flash write operation? <Y/N>: y
GbE Region does not exist.

Error 238: The host CPU does not have write access to the target flash area.
To enable write access for this operation you must modify the descriptor
settings to give host access to this region.

FPT Operation Failed.

*****
|           If Errors occurred, Please check the cause of error and correct it           |
|           If NO Errors occurred, Please remove Power wait for some seconds,           |
|                                                                                       |
|           Then Resume Power for system.                                             |
|                                                                                       |
*****

fs0:\SAU3A416> _
```

Please into Setup set **[Chipset->PCH-IO Configuration->ME Override]** : Enable
Press **F4** save, after that enter shell **go me** to do **[EX2]**



EX3: Command for update BIOS without CSME/TXE Firmware: **go bios** (Update BIOS)

```
fs0:\SAU3A416> go bios
*****Notice!!*****
Start updating BIOS without touching ME firmware
*****

+-----+
|               AMI Firmware Update Utility v5.14.02.0026               |
|   Copyright (c) 1985-2021, American Megatrends International LLC.   |
|   All rights reserved. Subject to AMI licensing agreement.           |
+-----+

Reading flash ..... Done
- ME Data Size Checking ..... Pass
- FFS Checksums ..... Pass
- Check RomLayout ..... Pass
- Warning: System doesn't have Type-1 structure to preserve
_Erasing Main Block ..... 0x00283000 (5%)
```

EX4: Command for update EC Firmware: **go ec** (Update EC)

```
fs0:\SAU3A416> go ec_

ITE Flash Utility Version : 2.3.1a

Device ID      : FF FF FE FF
SPI Vendor     : ITE A type
Block Number   : 1

Eraseing...    : ██████████ -- Erase OK.
Erase Verify... : ██████████ -- Verify OK.
Programing...  : ██████████ -- Programing OK.
Verify...      : ██████████ -- Verify OK.
*****
Flash process completed.
Please turn power supply off and on for restarting system.
*****

fs0:\SAU3A416> _
```