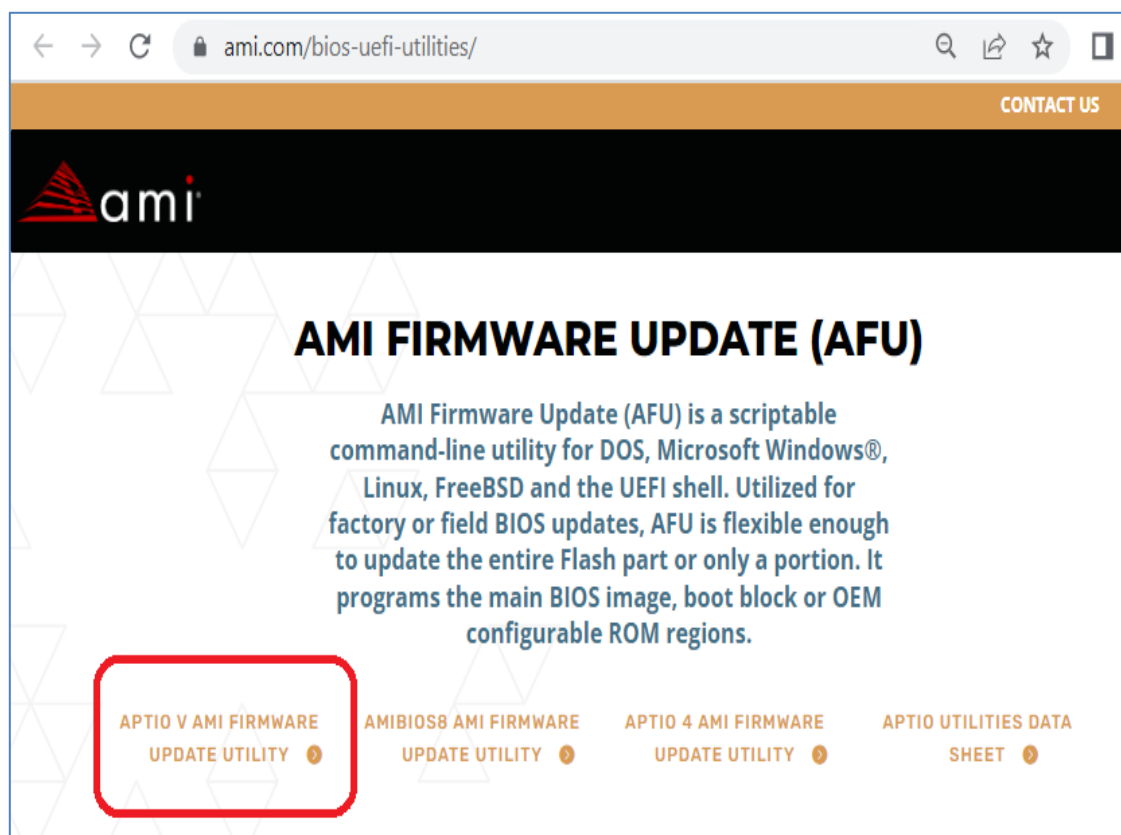


Altos R680s_F4 BIOS Firmware Update SOP

1. Download Altos R680s_F4 BIOS ZIP file from Altos website and unzip the BIOS ZIP file into an external USB disk.
2. Download AMI flash BIOS tool from below AMI web link and save this download file "afuefix64.efi" into BIOS folder of your external USB disk.

<https://www.ami.com/bios-uefi-utilities/>

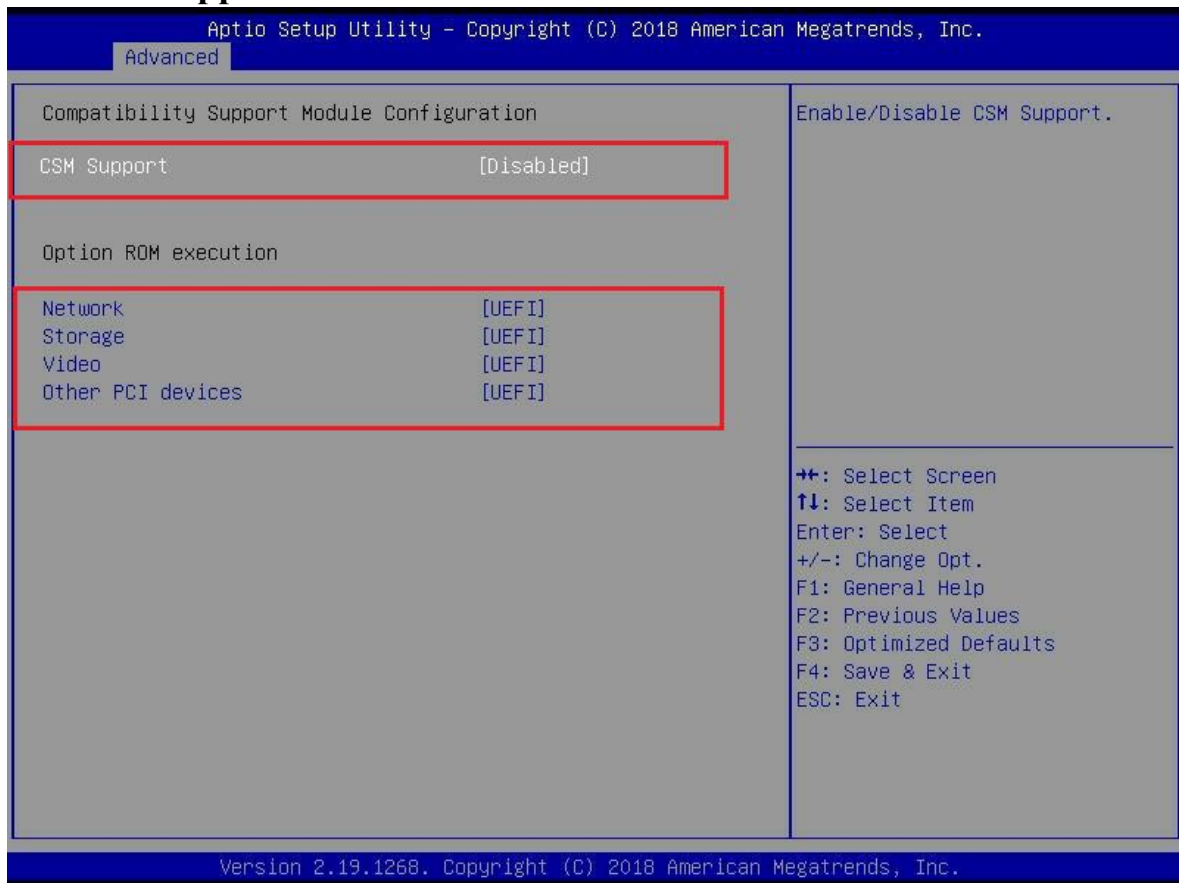


3. Power on the machine and boot to BIOS setup screen, select the “BIOS Boot Mode” to "UEFI mode".

Go to Advance\CSM Configuration page, set the Video, Storage, Network ... option ROM to UEFI mode.

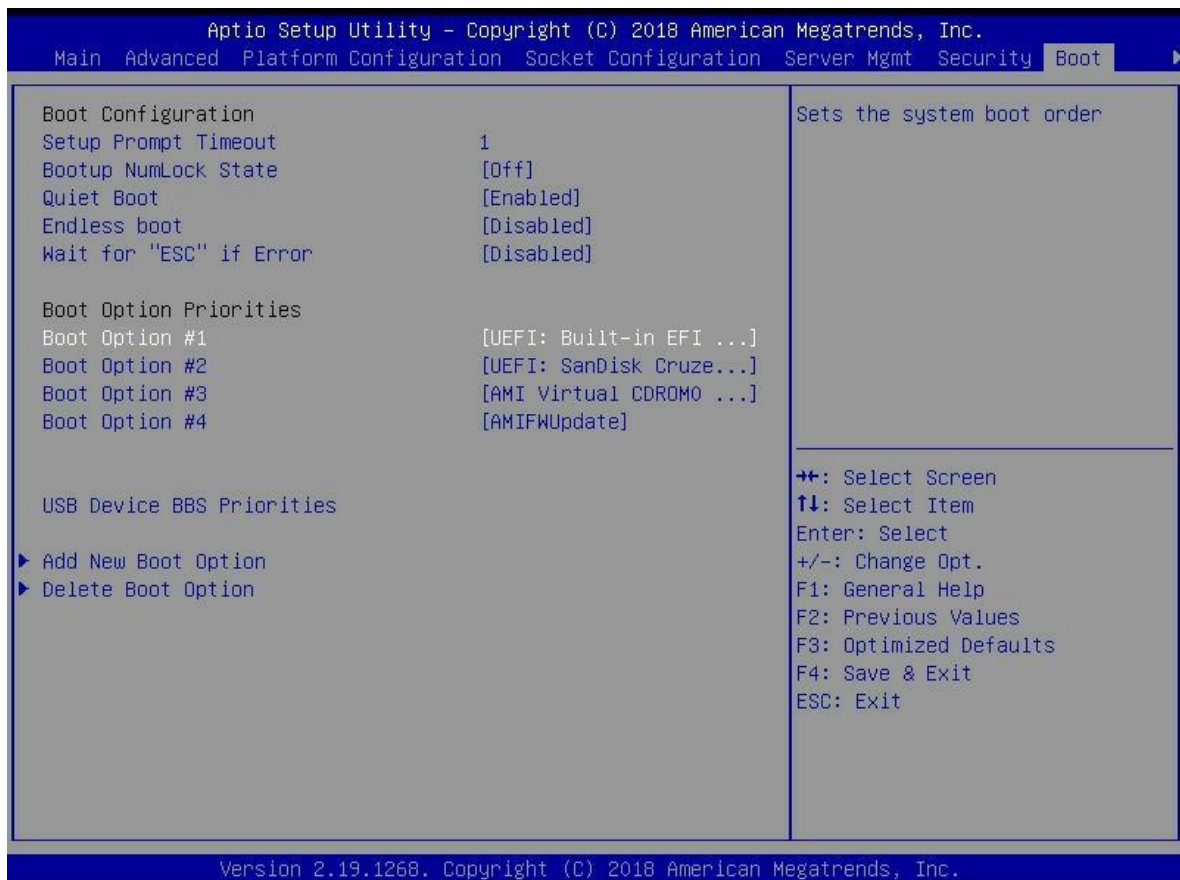
4. Save and exit BIOS to reboot the system, enter the BIOS setup screen again.

Go to “Advanced” and “Compatibility Support Module Configuration” page, set the “CSM Support” to “Disabled”.



5. Select embedded UEFI shell as first boot.

Save and exit to boot to the embedded UEFI shell.



6. Change to USB disk file system FSx:(depend to USB disk location)
7. Enter the BIOS folder and run the acer.nsh (for Skylake CPU or older platform) or altos.nsh (for CascadeLake CPU or newer platform) to update BIOS.

```
UEFI v2.50 (American Megatrends, 0x0005000C)
Mapping table
  FS0: Alias(s):HD0a0b::BLK1:
        PciRoot(0x0)/Pci(0x14,0x0)/USB(0x0,0x0)/HD(1,MBR,0x10B82F22,0x3F,0x1DD
17C1)
  BLK0: Alias(s):
        PciRoot(0x0)/Pci(0x14,0x0)/USB(0x0,0x0)
  BLK2: Alias(s):
        PciRoot(0x0)/Pci(0x14,0x0)/USB(0x2,0x0)/USB(0x0,0x0)
Press ESC in 1 seconds to skip startup.nsh or any other key to continue.
Shell> fs0:
FS0:\> cd bios\f4\Tyan\Release\R680F4\BIOS\v7.112-EFI\
FS0:\bios\f4\Tyan\Release\R680F4\BIOS\v7.112-EFI> dir
Directory of: FS0:\bios\f4\Tyan\Release\R680F4\BIOS\v7.112-EFI\
09/05/2018  11:39 <DIR>                8,192
09/05/2018  11:39 <DIR>                8,192
09/03/2018  15:28             33,554,432  71097112.B30
09/03/2018  15:27             16,777,216  7109_001.CAP
01/12/2017  19:48             396,400    AfuEfix64.efi
09/03/2018  13:39                80      FLASH.nsh
09/03/2018  15:41             12,521  FT77D-B7109-ACER-BIOS-ReleaseNote.txt
11/16/2017  10:00                9      acer.nsh
        6 File(s)  50,740,658 bytes
        2 Dir(s)
FS0:\bios\f4\Tyan\Release\R680F4\BIOS\v7.112-EFI> acer.nsh_
```

8. When BIOS flash finished, reboot the system and go to BIOS setup again.

```
- Update success for FDR
- Update success for GBER |
- Update success for DER. |
- Update success for GBEA... |
- PTT is locked, skip updating.
- Successful Update Recovery Loader to OPRx!!
- Successful Update MFSB!!
- Successful Update FTPR!!
- Successful Update MFS, IVB1 and IVB2!!
- Successful Update FLOG and UTOK!!
- ME Entire Image update success !!
WARNING : System must power-off to have the changes take effect!
FS0:\bios\f4\Tyan\Release\R680F4\BIOS\v7.112-EFI> _
```