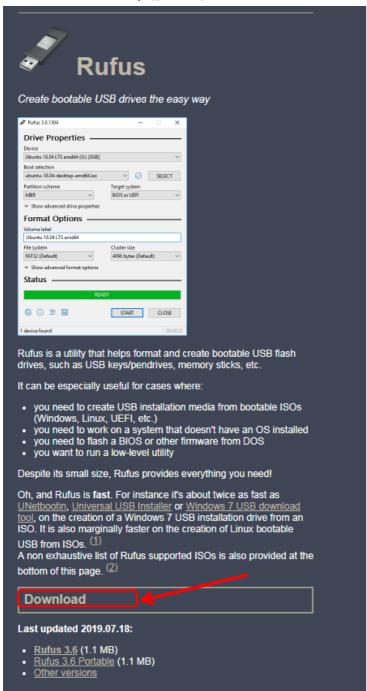
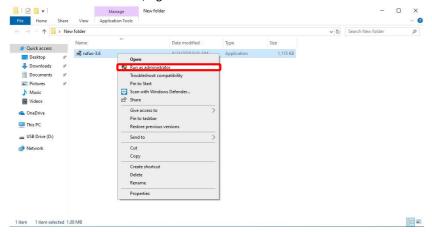
Update BIOS Steps

1. Download Rufus from https://rufus.ie/

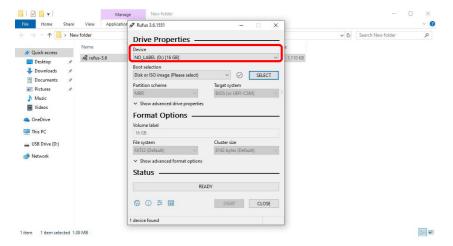




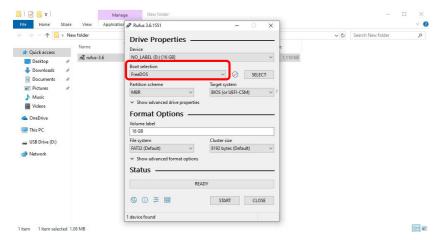
2. Insert a blank USB drive, right click on executable file and select "Run as Administrator"



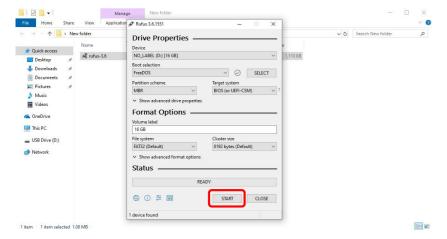
3. Select the USB drive on Device section



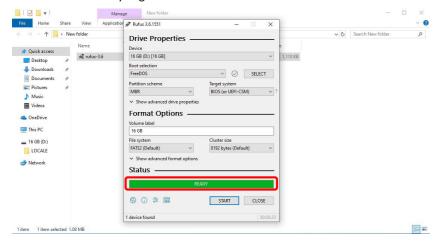
4. Select "FreeDOS" for Boot selection



5. Select "Start"



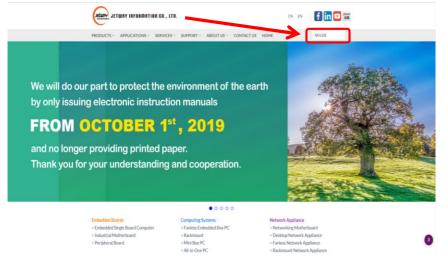
6. Status shown Ready in green after it's done.



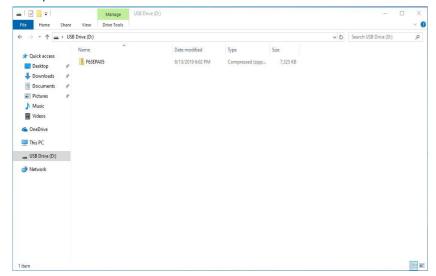
7. Search and download BIOS ZIP file that fits your exact motherboard model.

Note: Make sure the downloaded BIOS file is correct. Applying wrong BIOS can cause the

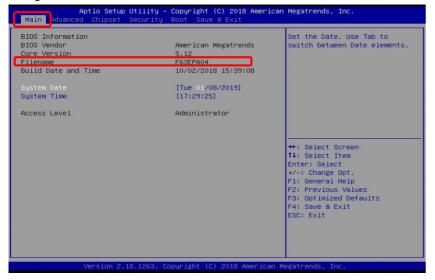
system unbootable.



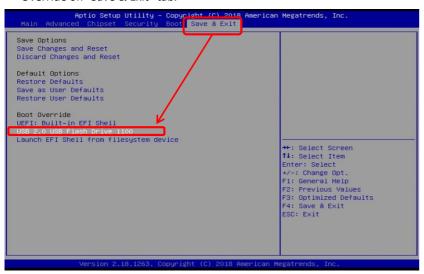
8. Unzip BIOS file and save all extracted files to the USB drive.



9. Plug in the USB drive and boot from it.



10. Hit "DEL" to enter BIOS screen, check BIOS version, and select the USB device for Boot Override on "Save & Exit" tab.



11. System will restart and boot from the USB until command prompt appears.

```
FreeDOS kernel 2042 (build 2042 OEM:0xfd) [compiled May 11 2016]
Kernel compatibility 7.10 - HATCOMC - FAT32 support

(C) Copyright 1995-2012 Pasquale J. Villani and The FreeDOS Project.
All Rights Reserved. This is free software and comes with ABSOLUTELY NO
HARRANTY; you can redistribute it and/or modify it under the terms of the
GNU General Public License as published by the Free Software Foundation;
either version 2, or (at your option) any later version.

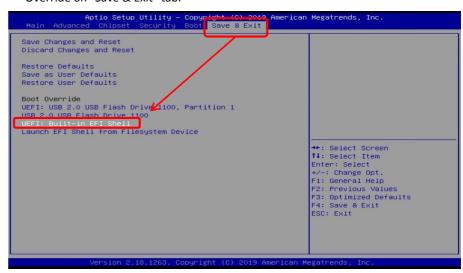
C: HD1, Pri[ 1], CHS= 0-32-33, start= 1 MB, size= 14799 MB

FreeCom version 0.84-pre2 XMS_Swap [Aug 28 2006 00:29:00]
Using US-English keyboard with US-English codepage [437]

C:\>
```

EFI Shell Mode

10. Hit "DEL" to enter BIOS screen, check BIOS version, and select the Built-in EFI Shell for Boot Override on "Save & Exit" tab.



11. System will restart and boot from the EFI Shell until command prompt appears.

12. At the C:\ prompt, type dir to show all your files.

```
FreeDOS kernel 2042 (build 2042 OEM:0xfd) [compiled May 11 2016]
Kernel compatibility 7.10 - WATCOMC - FAT32 support
(C) Copyright 1995-2012 Pasquale J. Villani and The FreeDOS Project.
All Rights Reserved. This is free software and comes with ABSOLUTELY NO
WARRANTY; you can redistribute it and/or modify it under the terms of the
GNU General Public License as published by the Free Software Foundation;
either version 2, or (at your option) any later version.
 FreeCom version 0.84-pre2 XMS_Swap [Aug 28 2006 00:29:00]
Using US-English keyboard with US-English codepage [437]
Volume in drive C is 16 GB
Volume Serial Number is 20CC-84FA
Directory of C:\
LOCALE
                   <DIR> 08-14-19 10:41a
AUTOEXEC BAT
                     96 08-14-19 10:41a
F63EPA05 ZIP
               7,500,392 05-24-19 11:36a
F63EPA05
                   <DIR> 08-14-19 10:58a
       2 file(s)
                     7,500,488 bytes
       2 dir(s)
                   14,759 Mega bytes free
C: >>
```

13. Type "CD folder name" to change directory and enter the BIOS folder.

```
FreeDOS kernel 2042 (build 2042 OEM:0xfd) [compiled May 11 2016]
Kernel compatib<mark>ility 7.10 - WATCOMC - FAT32 support</mark>
(C) Copyright 1995-2012 Pasquale J. Villani and The FreeDOS Project.
All Rights Reserved. This is free software and comes with ABSOLUTELY NO
WARRANTY; you can redistribute it and/or modify it under the terms of the
GNU General Public License as published by the Free Software Foundation;
either version 2, or (at your option) any later version.
  HD1, Pri[ 1], CHS= 0-32-33, start= 1 MB, size= 14799 MB
FreeCom vers<mark>ion 0.84-pre2 XMS_Swap [Aug 28 2006 00:29:00]</mark>
Using US-English keyboard with US-English codepage [437]
::\>dir
Volume in drive C is 16 GB
Volume Serial Number is 20CC-84FA
Directory of C:\
LOCALE
                     <DIR> 08-14-19 10:41a
AUTOEXEC BAT
                       96 08-14-19 10:41a
F63EPA05\21P
                7,500,392 05-24-19 11:36a
F63EPA05
                     (DIR) 08-14-19 10:58a
        2 file(s)
                       7,500,488 bytes
        2 dir(s)
                      14,759 Mega bytes free
::>>cd f63epa05_
```

EFI Shell Mode

12. At the Shell prompt, type **fs0**: to enter the USB drive. At fs0:\ prompt, type **dir** to show all your f

13. Type "CD folder_name" to change directory and enter the BIOS folder.

7

14. Type dir again to list all files under the BIOS folder.

```
Directory of C:\
LOCALE
                    (DIR) 08-14-19 10:41a
AUTOEXEC BAT
                      96 08-14-19 10:41a
F63EPA05 ZIP
                7.500.392 05-24-19 11:36a
F63EPA05
                    <DIR> 08-14-19 10:58a
        2 file(s)
                      7,500,488 bytes
        2 dir(s)
                     14,759 Mega bytes free
 : > cd f63epa05
 :\F63EPA05>dir <
 Volume in drive C is 16 GB
Volume Serial Number is 20CC-84FA
Directory of C:\F63EPA05
                    <DIR> 08-14-19 10:58a
                    <DIR> 08-14-19 10:58a
AFU560 EXE
                  155,216 03-11-14 3:08p
F63EPA05 BIN
               16,777,216 05-24-19 11:31a
                      992 05-24-19 11:34a
F63EPA05 BAT
                     862 05-24-19 11:33a
README
       TXT
                     664 11-30-17 1:43p
ME164
        EXE
        5 file(s)
                      16,934,950 bytes
        2 dir(s)
                    14,759 Mega bytes free
C:\F63EPA05>
```

15. Type *.bat and hit Enter to start updating BIOS.

```
Directory of C:\
LOCALE
                    <DIR> 08-14-19 10:41a
AUTOEXEC BAT
                      96 08-14-19 10:41a
F63EPA05 ZIP
               7,500,392 05-24-19 11:36a
                    (DIR) 08-14-19 10:58a
F63EPA05
        2 file(s)
                      7,500,488 bytes
        2 dir(s)
                    14,759 Mega bytes free
:>>cd f63epa05
::\F63EPA05>dir
Volume in drive C is 16 GB
Volume Serial Number is 20CC-84FA
Directory of C:\F63EPA05
                    <DIR> 08-14-19 10:58a
                   <DIR> 08-14-19 10:58a
                  155,216 03-11-14 3:08p
AFU560 EXE
              16,777,216 05-24-19 11:31a
F63EPA05 BIN
F63EPA05 BAT
                      992 05-24-19 11:34a
README
       TXT
                      862 05-24-19 11:33a
ME164
       EXE
                      664 11-30-17 1:43p
        5 file(s)
                      16,934,950 bytes
        2 dir(s)
                     14,759 Mega bytes free
C:\F63EPA05>f63epa05
```

EFI Shell Mode

14. Type dir again to list all files under the BIOS folder.

15. Type *.NSH and hit Enter to start updating BIOS.

16. Update BIOS

Note: DO NOT shut down, touch keyboard/mouse, or unplug any USB device while updating the BIOS, your computer could become "bricked" and unable to boot.

```
AMI Firmware Update Utility v5.06.00 :
Copyright (C)2014 American Megatrends Inc. All Rights Reserved.
Reading flash ...... 0x901A9000 (27%)
```

17. Power off the system when update is finished.

```
AMI Firmware Update Utility v5.06.00
     Copyright (C)2014 American Megatrends Inc. All Rights Reserved.
Reading flash ..... done
 - ME Data Size checking . ok
- FFS checksums ..... ok
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
Update Finish, System must power-off to have the changes take effect!
:\F63EPA05>
```

EFI Shell Mode

16. Flashing BIOS

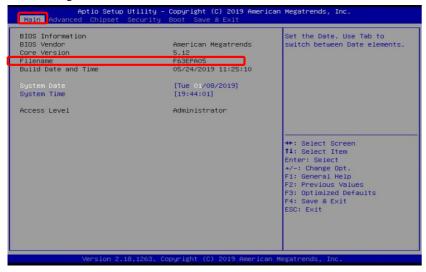
Note: DO NOT shut down, touch keyboard/mouse, or unplug any USB device while updating the BIOS, your computer could become "bricked" and unable to boot.

17. Power off the system when update is finished.

```
02/21/19 03:27p 561,776 AfuEfix64.efi
06/28/19 04:57p 33 BATJUA04.NSH
06/28/19 04:41p 16,777,216 BATJUA04.ROM
3 File(s) 17,339,025 bytes
2 Dir(s)

**SO:\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BATJUA04\BAT
```

18. Power on the system again, it will auto reboot 2-3 times and should be successfully applied to a new version. You can enter BIOS screen and check BIOS version to confirm the change.



EFI Shell Mode

18. Power on the system again, it will auto reboot 2-3 times and should be successfully applied to a new version. You can enter BIOS screen and check BIOS version to confirm the change.

