Product SOP Document		<b>ALTOS</b>	
□ Internal Document ☑ External Document			
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## Version History

Revision	Personnel	Date	Contents
1.0	Vernon Wang	2022/09/13	BMC update change to UEFI mode and combine
			with BIOS update together.
0.6	Vernon Wang	2019/05/06	Separate the FRU for the acer and the altos brand
0.5	Vernon Wang	2019/03/12	firmware update SOP

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## R680 F4/R680s F4 Firmware Update SOP

### I. BIOS and BMC Update

- 1. Copy BIOS package into a USB disk.
- 2. Download AMI flash BIOS tool from below link and put afuefix64.efi into BIOS folder.

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

- 3. Boot to BIOS setup and select 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 to reboot the system, enter the BIOS setup again. Go to Advance\CSM Configuration page, set the CSM support to Disabled.

Aptio Setup Advanced	Utility – Copyright (C) 2018 An	merican Megatrends, Inc.
Compatibility Support Modu	le Configuration	Enable/Disable CSM Support.
CSM Support	[Disabled]	
Option ROM execution		
Network Storage Video Other PCI devices	(UEFI) (UEFI) (UEFI) (UEFI)	
		<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
Version 2.1	9.1268. Copyright (C) 2018 Amer	rican Megatrends, Inc.

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5. Select embedded UEFI shell as first boot. Save and exit to boot to the embedded UEFI shell.

Aptio Setup Util: Main Advanced Platform Conf:	lty – Copyright (C) 2018 American Iguration Socket Configuration	n Megatrends, Inc. Server Mgmt Security Boot ▶
Boot Configuration Setup Prompt Timeout Bootup NumLock State Quiet Boot Endless boot Wait for "ESC" if Error Boot Option Priorities Boot Option #1 Boot Option #2 Boot Option #3 Boot Option #4	1 [Off] [Enabled] [Disabled] [Disabled] [UEFI: Built-in EFI] [UEFI: SanDisk Cruze] [AMI Virtual CDROM0] [AMIFWUpdate]	Sets the system boot order
USB Device BBS Priorities Add New Boot Option Delete Boot Option		<pre>++: Select Screen fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>

- 6. Change to USB disk file system FSx:( depend to USB disk location)
- 7. Enter the update folder and run the *acer.nsh* or *altos.nsh* to update BMC and BIOS.



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

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<ul> <li>Update success for FDR</li> <li>Update success for GBER  </li> <li>Update success for DER.  </li> <li>Update success for GBEA  </li> <li>PTT is locked, skip updating.</li> <li>Successful Update Recovery Loader to</li> <li>Successful Update MFSB!! </li> <li>Successful Update FTPR!! </li> <li>Successful Update FTPR!! </li> <li>Successful Update FLOG and UTOK!!</li> <li>ME Entire Image update success !!</li> <li>WARNING : System must power-off to have</li> <li>FS0:\bios\f4\Tyan\Release\R680F4\BIOS\sciented</li> </ul>	o OPRx!! 2!! e the changes take effect! v7.112–EFI\> _	

# II. FRU Update

- 1. Prepare a DOS bootable USB disk. Put the Gigabyte BMC firmware update package into USB disk.
- 2. Insert USB disk into system and power on the system
- 3. Go to Advance\CSM Configuration page, set BIOS boot mode as legacy mode for DOS USB disk.

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Aptio Setup Uti Advanced	lity – Copyright (C) 2018 Ar	merican Megatrends, Inc.
Compatibility Support Module	Configuration	Enable/Disable CSM Support.
CSM Support	[Enabled]	
Option ROM Messages	[Force BIOS]	
Option ROM execution		
Network Storage Video Other PCI devices	[Legacy] [Legacy] [Legacy] [Legacy]	++: Select Screen
		Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.19.1	268. Copyright (C) 2018 Amer	rican Megatrends, Inc.

4. Select USB device as first boot device.

#### **ALTOS Product SOP Document** □ Internal Document ☑ External Document **Document Name: Revision:0.5** Doc. No.: R680/R680S F4 Rebranding Firmware Update SOP Effective Date: Page:6 of 7 🔀 JViewer [172.16.57.75] - 0 fps Zoom Size : Disabled Video Keyboart Mouse Options Media Keyboard Layo Video Recor Power Active User Help C X 1 $(\Pi)$ 🧭 🚞 🛅 50 100 150 Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. ed IntelRCSetup Server Mgmt Security <mark>Boot</mark> Save & Exit Sets the system boot order Boot Configuration Setup Prompt Timeout Bootup NumLock State [0n] [Enabled] Quiet Boot [Disabled] Endless boot Wait For "ESC" If Error [Enabled] Boot Option Priorities [SanDisk Cruzer Glid...] [#4200 ID09 LUNO ATA...] Boot Option #2 Boot Option #3 [IBA XE Slot 0200 v2208] New Boot Option Policy [Default] →+: Select Screen Hard Drive BBS Priorities ↑↓: Select Item Network Device BBS Priorities Enter: Select USB Device BBS Priorities +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit Version 2.17.1249. Copyright (C) 2016 American Megatrends, Inc LALT LCTRL RALT RCTRL Num Caps Scroll

5. Go to FRU folder. If the model is for Acer brand, goto acer folder and type *acer.bat*. If the model is for Altos brand, goto altos forder and *altos.bat* to update SKU and manufacturer name and product name.

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ocument Na 8680/R680S F	i <b>me:</b> <sup>-</sup> 4 Rebrand	ding Firmware	Update SOP	Doc. No.:	Revision:0.5
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FRU-1207 ALTFRU	<br     	DIR> DIR> DIR> s) ) 3,	08-31-18 1 08-31-18 1 08-31-18 1 08-31-18 1 0 bytes 411.94 MB fr	:48p :28p :28p ee	
C:NBIOSN C:NBIOSN	F4NTYANNI F4NTYANNI	RELEASENR68 RELEASENR68	0F4\FRU>cd f 0F4\FRU\FRU-	ru-1207 1207>dir	
Volume Volume Directo	in drive Serial Nu ry of C:`	C is DOS umber is 22 NBIOSNF4NTY	6F-6167 Annreleasenf	680F4\FRU\FRU-1207	
ACER FRUEDIT FW_SOP UH8D UPDFRU	<pre>&lt;1 </pre> <pre>&lt;1 BAT EXE TXT EXE BAT 5 file(s 2 dir(s)) </pre>	DIR> DIR> 47,297 366 101,528 106 s) 1 ) 3,	08-31-18 1 08-31-18 1 11-09-17 11 07-06-17 5 12-14-17 10 02-17-10 9 09-22-17 5 49,307 bytes 411.94 MB fr	:48p :48p :20a :34p :46a :23a :05p ee	

## III. Serial Number Update

6. If need to update the Acer or Altos serial number, boot to DOS mode. Go to

the ..\SN\_xxxx folder. Type acer.bat "22 charaters serial number".

```
C:\BIOS\F4\TYAN\RELEASE\R680F4\SN\SN-1214>acer.bat 1234567890123456789012
C:\BIOS\F4\TYAN\RELEASE\R680F4\SN\SN-1214>uh8d /wfru=acer.fru
BMC Utility on Dos For M3291/3295/3296/AST2050/Pilot2 version 1.3.11
Copyright 2005-2010 TYAN Computer Corp.
IPMI Ver: 2.0 Firmware Rev: 8.00
                                                  Vendor ID: 6653 Pdt ID: -21829
Dump FRU to File acer.fru
reading FRU.....ok
C:\BIOS\F4\TYAN\RELEASE\R680F4\SN\SN-1214>fruedit /file=acer.fru /pdsn=123456789
0123456789012
FRU Manufactory date time Wed Mar 13 16:17:59 2019
  has be updated in Hex 0xFD 0x2B 0xBA
C:\BIOS\F4\TYAN\RELEASE\R680F4\SN\SN-1214>uh8d /fru=acer.fru
BMC Utility on Dos For M3291/3295/3296/AST2050/Pilot2 version 1.3.11
Copyright 2005-2010 TYAN Computer Corp.
IPMI Ver: 2.0 Firmware Rev: 8.00
Update FRU with File acer.fru
                                                  Vendor ID: 6653 Pdt ID: -21829
reading file.....
writing FRU.....
Update successfully
 :\BIOSNF4\TYAN\RELEASE\R680F4\SN\SN-1214>
```